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THE KEMIRA ANNUAL REPORT 2019 consists of four modules: Business Overview, Corporate Sustainability, Corporate Governance Statement, and Financial Statements. This interactive PDF version of the Annual Report has been enhanced with linked navigation to help you find the information you want more quickly. The table of contents, page references and URLs link to pages and sections within this document as well as to outside websites.

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All forward-looking statements in this report are based on the management's current expectations and beliefs about future events, and actual results may differ materially from the expectations and beliefs such statements contain.

## **kemira**



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CEO REVIEW

# Problem solvers by nature

In 2020, Kemira celebrates its 100th anniversary. At a moment like this it is natural to look back and to look forwards, but, before we do that, let's see where we stand right now. The year 2019 was among the most profitable in Kemira's history. Our revenue for 2019 was EUR 2.7 (2018: 2.6) billion with our operative EBITDA reaching a record level of EUR 410 million (323 million) with a margin of 15.4% (12.5%).

## A WINNING STRATEGY

Our excellent result coincides with our anniversary but is no coincidence. It is rather an outcome of the strategic choices we have made over the years. Our branch strategy has been to focus on pulp & paper, oil & gas and water treatment, and our geographical strategy has been to acquire a sustainable presence in the European, North American and Asia-Pacific markets. Both strategies are bringing expected results.

On our anniversary we stand on the shoulders of previous generations but also before a new dawn. This is a humbling realization, but also a source of commitment and confidence. Our culture - one that celebrates problem solving - got us where we are today, but also holds promises for a better and increasingly prosperous tomorrow.

# A HERITAGE IN CHEMISTRY SOLUTIONS FOR SOCIETAL CHALLENGES

Over the years Kemira has made numerous successful acquisitions and is today one company with many legacies and histories. All the companies that together make up our current Kemira share one fundamental property: they were founded to solve some of the most pressing problems of their time using chemistry. For example, in the 1800s it meant fighting famine with industrial chemistry. When Kemira was founded in1920, its main job was to provide fertilizers for Finnish farmers

In the early 1900s, the rapidly growing forestry industry gave birth to numerous new business opportunities in chemistry. From bleaching to biocides, and from industrial





CEO REVIEW



# Our excellent result is no coincidence. It is built on a century of chemistry expertise.

water treatment to different polymers. Kemira seized these opportunities and developed world class know-how in pulp and paper chemistry.

Today, water, the lifeblood of human existence, is what we focus on in all of our business segments. Over the past century our engineers have worked together with our partners to address major water treatment challenges and found sustainable solutions to major industrial problems.

## OUR JOURNEY HAS TAUGHT US TWO THINGS MORE THAN ANYTHING: PROBLEM SOLVING AND COLLABORATION

Over the years we have overcome challenges that our clients have presented and problems of our own. We've had our hair-raising moments, but have always come out stronger as a company and better equipped to help our customers. Some of our growth has been organic, some has happened through

acquisitions. The biggest and most lasting value of the latter has been the know-how that we have been able to contribute and the lessons we have learned in the science and art of collaboration. Magic happens when the right combination of people with a strong sense of purpose are presented with the right problem in a supportive environment.

We are now in a strong position to continue solving society's challenges through chemistry. Our robust customer satisfaction results show that we have the trust of our most important partners. At the same time, our most recent employee survey shows high engagement around Kemira's safety climate, culture, purpose and strategy. This - together with our excellent financial position - shows us that we are fit and ready to take on the future.

## RISING TO THE SUSTAINABILITY CHALLENGE

This cultivation of know-how, together with a deep understanding of our customers' needs are our strongest assets in the years to come as we face unprecedented environmental and societal challenges. Currently our innovation efforts are focused on improving resource efficiency and replacing fossil-based raw materials where possible, especially in packaging, where we are developing bio-based barriers as well as improving the durability, strength and lightness of materials.

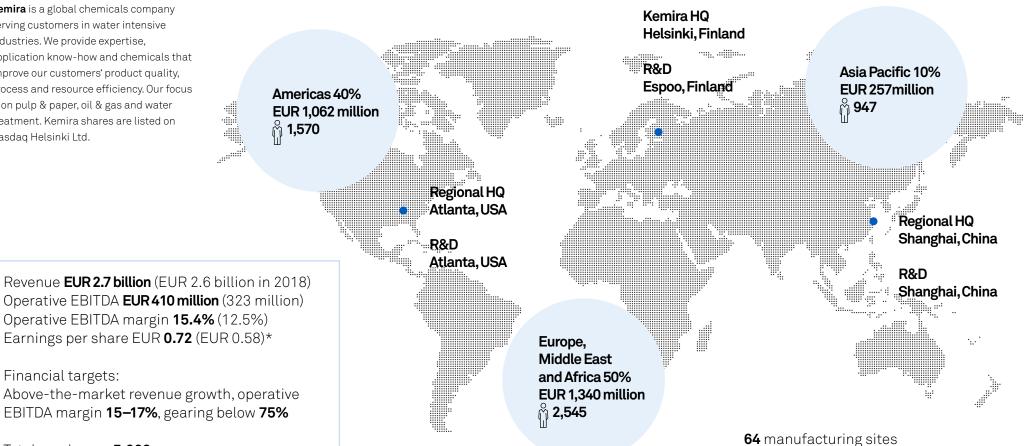
This is where we stand as we set our sights on Kemira's next century. The world's challenges are huge, but we know, from experience, that they can be overcome with science, ingenuity and collaboration.

JARI ROSENDAL
PRESIDENT AND CEO

**KEY FIGURES 2019** 

# Key figures 2019

**Kemira** is a global chemicals company serving customers in water intensive industries. We provide expertise, application know-how and chemicals that improve our customers' product quality, process and resource efficiency. Our focus is on pulp & paper, oil & gas and water treatment. Kemira shares are listed on Nasdag Helsinki Ltd.



Total employees 5,062

Financial targets:

<sup>\*2019</sup> financial figures and targets reflect the IFRS 16 accounting change.

**KEY FIGURES 201** 



**OPERATIVE EBITDA** 2019

EUR 410 million 15.4%

2018: **EUR 323 MILLION, 12.5%**  **REVENUE** 2019

EUR 2.7 billion

2018: **EUR 2.6 BILLION** 

**CLIMATE CHANGE: SCOPE 1** AND SCOPE 2 EMISSIONS

2019: **98.6%** 2019: **2.1** 

TARGET 2030: -30% 2018: 100 (BASELINE) **WORKPLACE SAFETY, TRIF** 

**TARGET 2020: 2.0** 2018:3.5

PRODUCTS DESIGNED FOR RESOURCE EFFICIENCY, % REVENUE

2019: 53%

**TARGET 50% BASELINE AVERAGE** 2018:51%

**EMPLOYEE ENGAGEMENT SCORE** 

**79** 

TARGET: **ABOVE THE INDUSTRY AVERAGE 73** 

THIS IS KEMIRA

## **OUR PURPOSE**

# We enable our customers to improve their water, energy and raw material efficiency

## **GLOBAL TRENDS**



## Growing middle class and urbanization

- Higher use of water, energy, tissue and board
- E-commerce/online shopping



## Scarcity of resources

- New materials to enable a circular economy
- Material and resource efficiency



## Regulation

- · Safe drinking water
- More stringent wastewater discharge limits

## **OUR CUSTOMERS**

# Pulp & paper Water treatment Oil & gas







## **OUR OFFERING**

We provide expertise, application know-how and chemicals that improve our customers' product quality, process and resource efficiency

## **OUR VISION**

# Our vision is to be the first choice in chemistry for water intensive industries

## **OUR STRATEGY**

Kemira is a great product company with chemistry and selling of chemicals at the core of our business. We win with best suited products and tailored services.

Our target is to grow above the market with an operative EBITDA margin of 15–17%

## **OUR VALUES**

We drive performance and innovation. We are dedicated to customer success. We care for people and the environment. We succeed together.

# **Business model**

## **INPUTS**

## **Equity:**

EUR 1,231 million

## Interest-bearing liabilities:

EUR 954 million

## Cash:

EUR 143 million

## Legal entities in 24 countries, 64 manufacturing sites

## Key relationships:

Customers, suppliers, distributors and agents, industrial partners for secondary raw materials

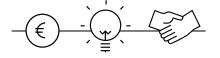
5,062 professionals worldwide

255 R&D experts in 3 centers

1,681 granted patents

## Total materials purchased:

- → 3,342 million tonnes, 24% industrial by-products
- ightarrow Total energy purchased 4,857 GWh



## **BUSINESS ACTIVITIES**

## Sustainable products and solutions:

- → Products and tailored services that improve our customers' product quality, process and resource efficiency.
- → Enabling our customers to improve their water, energy and raw material efficiency
- → Product stewardship: ensuring safety of our products

## Responsible operations and supply chain

- → Lowering costs and environmental impacts of our operations
- → Workplace safety
- → Sustainability in sourcing and supply chain management

## People and integrity

- → Compliance with Kemira's Code of Conduct
- → Employee engagement
- → Leadership development



## **OUTPUTS**

## Market positions

- → Polymers #2
- ightarrow Coagulants #1
- → Sizing #1
- → Pulp Bleaching #2

## Revenue received from customers

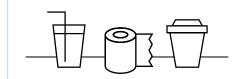
- → EUR 2.659 million
- Products designed for resource efficiency, 53% revenue

## Services

- → Technical expertise, including application support and total chemistry management
- → Process control and monitoring

## **Emissions and waste**

- → Scope 1 + Scope 2 market-based (CO₂ eq.) = 917,000 tonnes
- → Total waste disposal 128,400 tonnes



## **OUTCOMES**

## Customers

- → Product quality, product yield optimization, and minimizing environmental impacts
- → Process and energy efficiency
- → Improved water quality and regulatory compliance
- → Delivering customer value: NPS improved up to 6 % in 2019 (new rolling process) from 33 in 2018.

## Society

- → Clean water, suitable for reuse
- → Sustainable use of biobased materials: recycled fibers
- → Less water and energy used in industrial processes
- → More efficient extraction and use of non-renewable resources: oil, minerals and water
- → Income taxes paid: EUR 39 million

## Shareholders & lenders

→ EUR 86.9 million paid in dividends and interests in 2019

## **Employees**

→ Engagement score above the industry norm



GLOBAL MEGATRENDS FAVOR KEMIRA

# Global megatrends favor Kemira

MEGATREND	IMPACT	HOW KEMIRA BENEFITS FROM THE MEGATREND, FOR EXAMPLE
GROWING MIDDLE CLASS & URBANIZATION	Increased use of water, energy, tissue and board	Water reuse and treatment, absorbency and softness of tissue, lightweight high-quality board, energy savings in oil production are a few examples of how our chemistry can be utilized.
	Fast growth in e-commerce/online shopping	Our chemistry solutions support production of light and strong packaging board in a growing market.
SCARCITY OF RESOURCES	New materials to enable a circular economy	Single-use plastics can be partially replaced with fiber-based products where we play a key role through pulp and paper chemistry.
	Higher efficiency in material and resource use	With our chemistry, customers can enhance their resource efficiency: e.g. reuse of water, less energy needed in oil production, and lighter board, creating cost savings.
REGULATION	Safe drinking water	Our products are used to purify the equivalent of 320 million people's annual water usage – and the demand for safe drinking water is growing globally.
	More stringent wastewater discharge limits	Wastewater discharge limits are tightening and with our water treatment chemicals, customers can meet these limits.



GLOBAL MEGATRENDS FAVOR KEMIRA

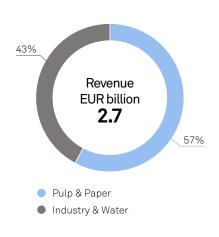
## **OUR BUSINESS FOCUS**

In Pulp & Paper, we have unique expertise in applying chemicals and in helping pulp and paper producers innovate and constantly improve their operational efficiency and reduce environmental impact. Kemira is the only company in the industry with a major global presence in pulp, packaging and paper chemicals. Thanks to an increased focus on this business, combined with strategic investments and selective acquisitions, we have been able to grow and become the global market leader in pulp, paper and packaging chemicals for industries.

Industry & Water supports municipalities and water-intensive industries in the efficient and sustainable utilization of resources. In water treatment, we help in optimizing every stage of the water cycle. In Oil & Gas applications, our chemistries enable improved yield from existing reserves and reduced water and energy use.

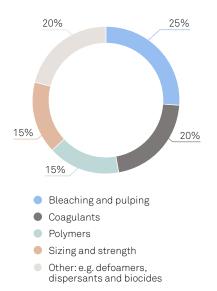
From the product category point of view, we will continue to focus on four main areas: bleaching and pulping, sizing and strength, polymers, and coagulants. In these categories, which comprise over 80% of our Group's revenue, we have application know-how, enough scale and most importantly, growing customer demand. Our recent investments have been in the first three categories as we have added capacity to fuel growth.

## **SEGMENT SPLIT %**



## PRODUCTS %

Revenue by product category rounded to the nearest 5%

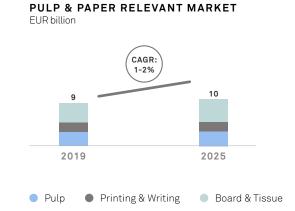


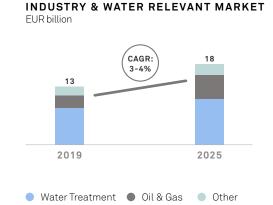
GLOBAL MEGATRENDS FAVOR KEMIRA

## **OUR PRESENCE IN GROWING MARKETS**

Both of our segments, Pulp & Paper and Industry & Water, operate in growing markets with a combined expected annual market growth rate of around 2–3%. Growth is driven by global megatrends such as the growing middle class and urbanization, resource-efficiency, and regulation.

In 2019, organic growth for the Group was 0%, of which Pulp & Paper had -2% and Industry & Water had 4% organic growth, driven by higher sales prices.





OUR STRATEGY

# **Our strategy**

We succeed with best-suited products and tailored services that improve our customers' product quality, process and resource efficiency. Our target is to grow above-the-market with an operative EBITDA margin of 15–17%. The gearing target is below 75%.

## **OUR STRATEGIC ENABLERS**



## **CUSTOMER EXCELLENCE**

Customer intimacy and ability to capture value

Optimized service levels



## PRODUCT & SERVICE EXCELLENCE

Best suited products in terms of performance, resource efficiency and cost

Complemented with service and application knowledge



## **OPERATIONAL EXCELLENCE**

Safe, sustainable and efficient production, operations and processes

Reliable deliveries

Efficient sourcing



## MARGIN EXCELLENCE

Improvement of profitability across all products and regions

Optimized output from our assets

**OUR STRATEGY** 

## **OUR PRIORITY SUSTAINABLE DEVELOPMENT GOALS**



**kemira** 

Kemira develops technologies and solutions that enable customers to recycle and reuse water resources.

We want to enhance the opportunities for people to live the kind of life that they aspire to, and access to clean, safe water is critical to achieving that.



Chemistry is at the heart of enabling the circular economy, and we have a key role in helping our customers achieve their circularity and sustainability ambitions.

As experts in chemistry, we enable circularity through the design of our products and increasingly adopt circular economy business models in our own operations.



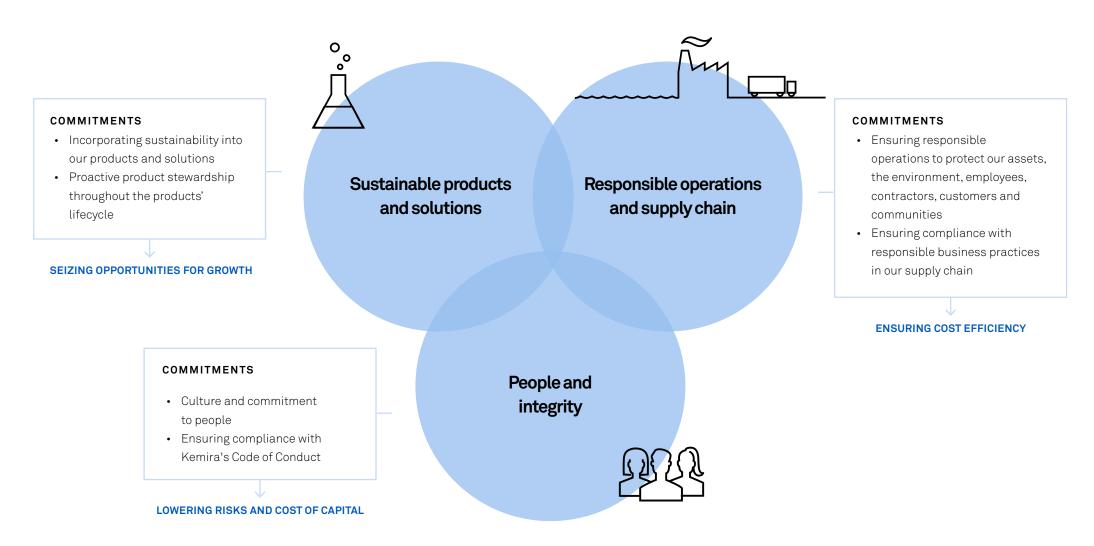
Our target is to reduce Scope 1 and Scope 2 greenhouse gas emissions by 30% by 2030 (compared to 2018) and our ambition is to be carbon-neutral by 2045.

Our climate response focuses on innovating for energy efficiency both in our own operations and those of our customers, sourcing low carbon energy and electrification.

**kemira** 

**OUR STRATEGY** 

## **HOW WE MANAGE SUSTAINABILITY**



RISKS AND OPPORTUNITIES

# Risks and opportunities



## SUSTAINABLE PRODUCTS AND SOLUTIONS

<ul> <li>Products to capitalize on global trends for recycling, e-commerce, growing middle class, tightening regulation and scarcity of resources.</li> <li>Products enabling our customers' product quality, process and resource efficiency.</li> <li>Products addressing the transition towards low-carbon and enabling a circular economy.</li> </ul>
<ul> <li>Growing regulatory demands for stricter water treatment requirements and to replace plastics in single- use products.</li> </ul>
<ul> <li>Disruptive technologies in our value chain, slow renewal of our product portfolio and lack of differentiation, and failure to commercialize new products and service concepts.</li> <li>Regulatory constraints related to our products or use of our products are always evolving. The outcome of regulatory processes can lead to a ban, authorization or restrictions of use, which can affect our ability to place products on the market.</li> </ul>
We focus our innovation work on products addressing global trends and resource efficiency. This is based on systematic monitoring of market developments, competitive activities, and emerging technologies to enable responsiveness to changing customer needs. Our approach to collaborative product development is aimed at ensuring a fast response to market needs and effective product launches through targeted marketing activities and training of sales.
All our products, raw materials and intermediates need to comply with all applicable chemical regulatory requirements in the countries where we manufacture and / or sell chemicals. We actively monitor changes both in chemical legislation and in regulations relating to the use of our products by customers. Our Product Lifecycle Management process covers assessments on regulatory compliance, human health impact, safety issues and environmental impact in every lifecycle phase, from conception and development to manufacturing and sales, and finally to product elimination.

RISKS AND OPPORTUNITIES



**kemira** 

## **RESPONSIBLE OPERATIONS AND SUPPLY CHAIN**

OPPORTUNITIES	<ul> <li>Digital solutions and streamlining of our business processes to improve our operational efficiency and asset utilization.</li> <li>Our globally integrated management system provides a platform for change management and to quickly comply with new regulatory requirements and stakeholder expectations.</li> <li>Raw material portfolio and energy mix is developing to reflect the needs of a circular and low-carbon economy.</li> </ul>
RISKS	<ul> <li>Chemical operations involve harmful and hazardous substances controlled with a wide range of physical and chemical parameters. Malfunction in processes can lead to incidents with possible impact on environment, employee health and safety, or our assets. This can happen due to human behavior, technical failures or process safety deficiencies.</li> <li>Failure to develop safety management practices may increase risk of safety incidents causing supply and manufacturing disruptions.</li> <li>Raw material supply disruptions due to force majeure situations at market or single source.</li> <li>Failure by our vendors/suppliers to meet or comply with local environmental regulations.</li> <li>Some of our major product lines are very energy-intensive with an environmental impact through carbon emissions. There are regulations emerging which set a price for carbon emissions.</li> </ul>
MANAGEMENT APPROACH	Our integrated management system provides a solid platform for systematic risk management and continuous improvements in competences, procedural, technical and physical protection mechanisms. We systematically develop and implement certifiable management systems for environment, occupational health and safety, quality, and energy management. Legal reviews of changing regulatory requirements are a part of management frameworks, and legal compliance issues are part of management system reviews.  Our strategic sourcing through segmentation and the supplier management program aims to manage and develop performance and good governance throughout our supply chains to reduce our risks.
	and develop performance and good governance throughout our supply chains, to reduce our risks related to the availability of raw materials, price volatility, and non-compliance, as well as to responsible business practices. Other measures include backward integration for critical raw materials and reducing the number of single/sole situations, as well as effective contingency plans for core materials. We secure cost-effective energy supply though strategic investments and by hedging.

RISKS AND OPPORTUNITIES



**Kemira** 

## **PEOPLE AND INTEGRITY**

OPPORTUNITIES	<ul> <li>Ability to attract, retain and develop the right mix of talent, leveraging our strong employer brand and globally diverse, results-orientated, and collaborative work environment.</li> <li>Culture of talent management, performance management and development, and employee engagement.</li> <li>Strong leadership competences, skilled technical expertise/industry knowhow and competent workforce.</li> </ul>
RISKS	<ul> <li>Operating in 40 countries with sales to over 100 countries creates an environment characterized by multiple ethics and compliance risks, including risk of corruption, fraud, competition compliance, trade compliance and human rights.</li> <li>Failure to enable safety culture development.</li> <li>Non-compliance with Code of Conduct and related policies.</li> </ul>
MANAGEMENT APPROACH	To implement our strategy, we must ensure that we have committed people, a strong leadership bench and the indispensable competencies in place to implement our strategy. We need to invest in a strong culture and commitment to people to retain our talents in a highly competitive employee market.  • Continued emphasis on talent and succession development to ensure we have a strong platform for the future, through growing leadership and talents from within the organization.  • Focus on performance management, employee engagement, learning and development, and building a strong employer brand which includes a market competitive employee brand promise.  • Continued development of safety culture by the whole organization.
	We continuously develop our management practices to ensure compliance with regulatory requirements and high ethical standards. We have a global Ethics & Compliance program in place to monitor and mitigate any observed risks or violations.  • Continued communication and training for Code of Conduct and channels for feedback of violations.

CORPORATE SUSTAINABILITY

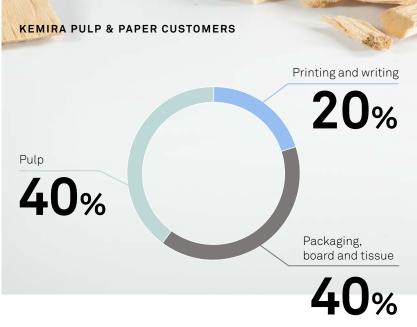


PULP & PAPER

**PULP & PAPER** 

# Leading global chemical provider to the growing pulp and paper industry

Global megatrends, such as urbanization, a growing middle class, and sustainability, are shaping the pulp and paper industry. We work in close cooperation with industry-leading companies to address these trends, and the evolving needs and opportunities. Combining best-in-class application expertise, latest technologies for smart process management and a complete chemistry portfolio, we help customers improve their process efficiency, productivity and end-product quality.



PULP & PAPER

## KEMIRA'S EXPERTISE HELPS PULP AND PAPER PRODUCERS

## **PULP**

The beauty of all kinds of paper grades begins with the right pulp quality. We work together with pulp producers to reach targeted pulp properties for strength, brightness and cleanliness. We can help producers improve total production efficiency and save costs. Our chemical island concept and in-house patented technology development show the commitment we have in the industry.

## **BOARD**

Producing strong, lightweight, visually appealing, protective and safe packaging board requires special expertise in chemistry. With the help of our broad experience, board producers can add value to board making and tailor products that meet the strictest of end-use demands – from food safety to brand appeal.

## **TISSUE**

Tissue is largely driven by the end-user preferences for softness, strength, absorbency, flexibility and sustainability. It is extremely lightweight and produced at very high speeds, which makes runnability a challenge. We help tissue makers optimize to the highest machine productivity, while at the same time enhancing sheet quality to fully meet end-user requirements.

## PRINTING AND WRITING PAPER

Using deep paper-chemistry expertise, Kemira can help paper producers create profitable new grades for dynamic digital markets, and squeeze costs out of present papermaking operations.





## PULP & PAPER - SOLID BUSINESS WITH A GOOD TRACK RECORD

Growth in the use of pulp and paper chemicals is driven by higher production volumes for board and tissue grades. Kemira has unique expertise in chemical applications, and we are well-placed to help our pulp and paper producing customers to innovate and constantly improve their operational efficiency and end-product quality. We are working to support our customers through the transition to a bio-based economy, by enabling production with fewer inputs, lower environmental impact and a reduced water footprint. We have invested in an AKD wax capacity expansion project in China and a joint venture in South Korea for dry polymer capacity.

## MARKET ENVIRONMENT

#1 Solenis (Paper)\*

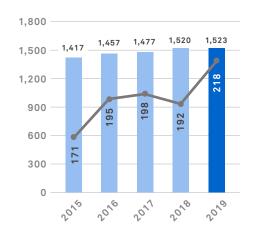
#2 Kemira (Pulp and paper) ~16%

#3 Nouryon (Pulp)

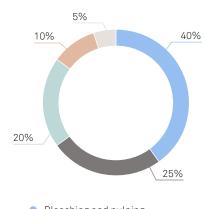
#4 Ecolab (Paper)

#5 Kurita(Paper)

## REVENUE AND OPERATIVE EBITDA FUR million



## REVENUE BY PRODUCT CATEGORY



- Bleaching and pulping
- Sizing and strength
- Defoamers, dispersants, biocides and other process chemicals
- Polymers
- Other

<sup>\*</sup>Solienis-BASF combined entity

INDUSTRY & WATE

## **INDUSTRY & WATER**

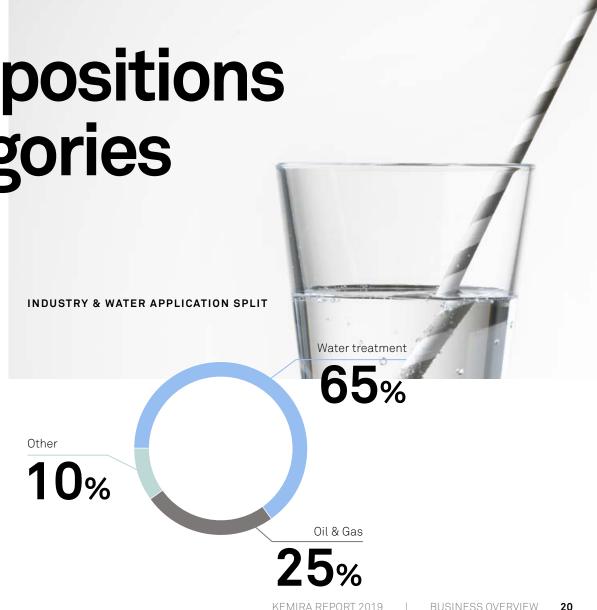
# Strong market positions in chosen categories

People are putting more demands on our water resources all the time. The more we produce, manufacture, consume, and dispose, the more water we use. How can we replenish the water cycle and keep up with our growing needs?

To help water treatment plant operators do this, while optimizing the total cost of ownership, at Kemira we work in close cooperation with customers to reduce expenses for energy, labor and chemicals, while safely achieving the targeted water quality.

In oil and gas, our chemistries enable improved yield from existing reserves and reduced water and energy use.

Our deep R&D and application knowhow, secure supply network and complete technology portfolio are some of the reasons why we are a safe, efficient and sustainable partner for our customers.



INDUSTRY & WATER

# KEMIRA'S EXPERTISE HELPS CUSTOMERS IN THE INDUSTRY AND WATER SEGMENT

## **RAW WATER**

Drinking water producers are faced with deteriorating quality of raw water, as well as tightening regulations. With Kemira's R&D and technology expertise, we can help to meet the requirements for safe drinking water. Our reliable and responsible supply chain ensures the peace of mind municipalities need for steady delivery.

## **WASTEWATER**

Effective wastewater treatment plants are vital around the world. They face tight operating budgets, tighter regulation, and are constantly looking for ways to improve efficiency. Chemicals can bring substantial energy-savings in the wastewater treatment process. Using coagulants can save up to 50% of aeration energy in organic removal. Our unique range of water treatment expertise and products offer solutions to all wastewater challenges.

## INDUSTRIAL WATER

Each process water system is different and requires customized products, depending on the water quality, branch of industry and process parameters. With the right technologies, water can be reused through several cycles. We help customers optimize the total cost of process, with lower energy and water consumption, and keep equipment running reliably with less maintenance required.

## OIL & GAS

Oil and gas producers are searching for ways to produce more with less. Our operations in shale and conventional oil recovery are designed to help operators produce more with less resources. In oil sands, Kemira's water treatment expertise and know-how from oil and gas customers creates a unique market position. We add value to customers' mandatory tailings treatment process.





## INDUSTRY & WATER - STRONG GROWTH DRIVEN BY OIL & GAS

The water treatment market is driven by regulation. We are the only manufacturer offering a full product portfolio of coagulants, polymers and other water treatment chemicals. This makes our position in the market unique.

In Oil & Gas, we are well-positioned in the shale industry and we are growing fast in water treatment related to unconventional oil recovery in Canada, and polymers used in Chemical Enhanced Oil Recovery (CEOR). In CEOR, we are currently investing in new polymer manufacturing capacity in Europe and in North America.

## **KEMIRA #1 IN COAGULANTS** IN EUROPE AND NORTH **AMERICA**

## Main competitors in coagulants:

**kemira** 

- Feralco (Europe)
- Kronos (Europe)
- Chemtrade (North America)
- USAlco (North America)

## **KEMIRA GLOBALLY #2 IN POLYMERS USED IN WATER** TREATMENT AND OIL & GAS APPLICATIONS

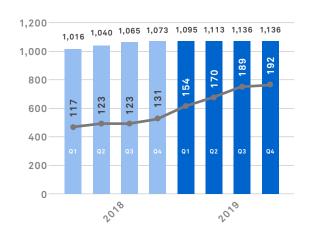
## Main competitors in polymers:

- SNF
- Solenis
- Solvay (only Oil & Gas)

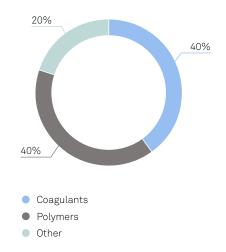
## REVENUE AND OPERATIVE EBITDA **ROLLING 12 MONTHS**

**FUR** million

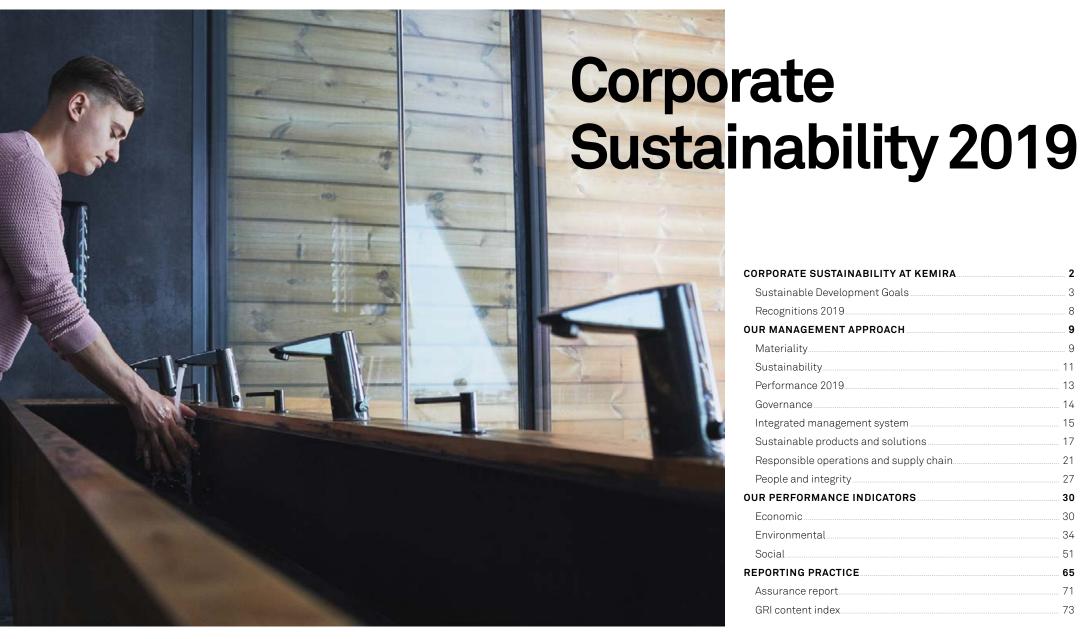
CORPORATE SUSTAINABILITY



## REVENUE BY PRODUCT CATEGORY



## **kemira**



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Social

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CORPORATE SUSTAINABILITY AT KEMIRA

# Corporate Sustainability at Kemira

Sustainability is an integral part of how we do business at Kemira. It is not seen as something separate, but instead, it is built into all processes, policies and operations. This means that our leadership and all our employees must overlay their decisions with a sustainability lens.

As we continue to integrate sustainability in Kemira, we have separated out how we manage sustainability from our priority sustainability themes.

In the former, our focus is on developing and improving sustainability considerations across our value chain, guided by our materiality assessment and the leading sustainability research, standards and examples. While this approach tends to be very technical by nature, it is essential in order to build a strong safety net for Kemira and our customers.

The majority of our stakeholders are not sustainability experts though, and they tend to prioritize in terms of themes. This is why we have overlaid our management approach with three priority Sustainable Development Goals (SDGs). The SDGs are a common language that we share with our stakeholders for sustainability. They allow us to show clearly how we can best contribute to overcoming shared societal challenges.

# **HOW WE MANAGE SUSTAINABILITY** BRA My Responsible operations Sustainable products People and and supply chain integrity and solutions PRIORITY SUSTAINABILITY THEMES Water (SDG6) Circular Economy (SDG12) Climate Action (SDG13)

CORPORATE SUSTAINABILITY

## **ADDING TO THE SDGS**

**kemira** 

The United Nations Sustainable Development Goals (SDGs) offer us a framework through which to evaluate how Kemira currently is, and could be, contributing to sustainable development. The SDGs provide a common language around sustainability and help us align our activities with those of our stakeholders by offering a shared vision.

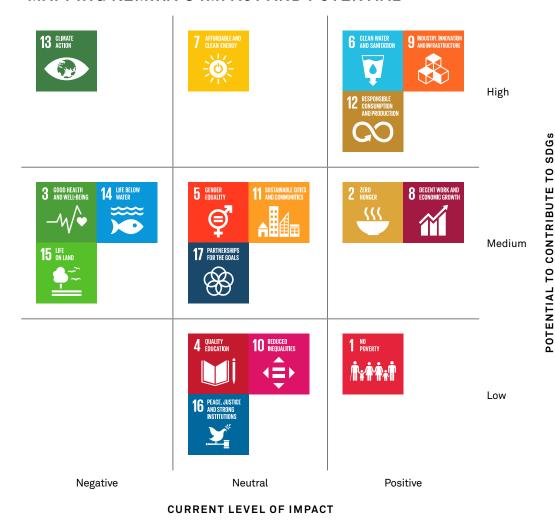
Drawing from the Chemical Sector SDG Roadmap published by the World Business Council for Sustainable Development (2018), we have mapped Kemira's impact and potential across the 17 SDGs. Our activities span all the SDGs to different degrees, and we recognize the interconnectedness of the SDGs. However, we wish to focus our efforts where Kemira can make the biggest difference. As a result of this mapping, we have identified three priority themes for Kemira:

- Water (SDG6)
- Circular Economy (SDG12)
- Climate Action (SDG13)

To obtain our mapping, we assessed the relevance of each SDG by referring to the global indicator framework. The targets and indicators of each SDG give a detailed picture of where we must work together to achieve each SDG and provides a reference to assess Kemira's impact and potential to contribute.

We compared Kemira's strategy, business model and corporate sustainability priorities to the indicator framework, to identify what our current impact is and our potential to contribute to the SDGs. In cases where Kemira both has positive and negative impacts or low and high potential, the mapping combines these to arrive at an overall average. The assessments have been done in relative terms within Kemira. In other words we do not compare Kemira to other companies. The mapping is not an assessment of how well we are performing on each SDG, instead it allows us to better prioritize our efforts.

## MAPPING KEMIRA'S IMPACT AND POTENTIAL



## **OUR CONTRIBUTION TO THE PRIORITY SDGs**



## SAFE AND CLEAN WATER

Clean water is essential not just for life itself, but for making sure we can live high-quality, enjoyable lives. Climate change and the growing global population mean that ensuring everyone

has access to this most precious of resources is one of our biggest challenges.

It's estimated that worldwide, 780 million people do not have access to an improved water source, and an estimated 2.5 billion people, or more than 35% of the global population, lack access to improved sanitation.

Only 3% of the earth's water is fresh, and an even smaller percentage of that is available for drinking. At Kemira we see our role as a custodian of this valuable resource because we have the products and ability to help make the most of this finite resource.

As a single company we can't tackle this problem on our own, but through collaboration with our customers - cities and municipalities, and water-intensive industries - we can make a real difference.

We do this in three main ways. Firstly, through our work with cities' and municipalities' water treatment plants, we help ensure citizens have access to the clean, safe, and affordable drinking water they need for a healthy life. Secondly, we help municipalities and industries ensure that discharged wastewater meets environmental permit standards, reducing the load on local water bodies. Thirdly, we help water-intensive industries use less water and make their processes more sustainable, for example by enabling them to use recycled water rather than freshwater in their processes.

In our own operations, we are continuously evaluating opportunities to decrease water withdrawal, consumption, discharge, and associated impacts through water recycling and reuse. This includes process redesign and optimization projects in our upgraded and new production lines. Using the World Resources Institute's Aqueduct Water Risk Atlas, less than 1% of total water withdrawal takes place in area of water stress (areas in which more than 40% of available water is used by industry, household and agriculture).

Water scarcity is a problem that is not going away anytime soon. The World Health Organization estimates that half of the world's population will be living in water-stressed areas by 2025, which is only a few years away. At Kemira, we want to help society adapt and build resilience, so we all start using water in the most sustainable way possible.







## ADDING CIRCULARITY TO **OUR ECONOMY**

The circular economy can help us minimize impacts on the environment and achieve sustainable growth. At Kemira, we see that chemistry is at the

heart of enabling the circular economy, and we have a key role in helping our customers achieve their circularity and sustainability ambitions.

Kemira is in the business of innovating in chemistry to solve problems for our customers and society. This includes resource scarcity and consumption. As global consumption grows, this puts increasing pressure on our planet and resources. To decouple growth from natural resource consumption we need to adopt a circular mindset where we design out waste and increase resource productivity.

We enable our customers globally and across industries to improve their water, energy and raw material efficiency. As experts in chemistry, we enable circularity through the design of our products and increasingly adopt circular economy business models in our own operations.

We are increasing our resource productivity, for example. In 2019, 24% of raw materials used in Kemira's global manufacturing came from recycled sources or industrial by-products. In our inorganic coagulants line, 70-80% of raw material comes from recycled sources (scrap iron and spent pickle liquor). These are used in the treatment of wastewater, drinking water, and in many other industrial water treatment applications.

In 2018, Kemira went a step further and started mining a landfill that contains several million tons of ferric sulfate helping put some 30 years of accumulate industrial byproduct back into our circular economy.

We also provide product-as-a-service business models through Total Chemistry Management and KemConnect. This combines smart technology with payment for performance and aligns incentives away from volume towards value.

Kemira participates in sharing platforms through our manufacturing sites. Integrated operations with our customers ensure maximum efficiencies in energy use, but we also go further. We also provide excess process heat to local district heating networks around our sites. In Helsingborg, for instance, our site operates an industrial park that provides 60% of the total park's energy needs, transformed via an energy hub into steam, electricity, compressed air and cooling. 30% of the energy goes beyond the fence line and is delivered to the city's district heating network. This district heating component has saved about 1.6 million tons of CO<sub>2</sub> cumulatively.

In these and many other ways, Kemira is adding to the circular economy, either through our own operations or by helping our customers and communities.





## **CLIMATE ACTION**

In 2018, Kemira started decoupling growth from greenhouse gas (GHG) emissions, increasing production and reducing absolute emissions. This trend continued in 2019, supported by

renewed focus in this area and working towards setting a new climate change target for Kemira.

Kemira's previous target on GHG emissions was a 20% reduction by the end of 2020 from a 2012 baseline, indexed to the sites representing our largest sources of emissions (cumulatively representing 90% of Scope 1 and Scope 2 GHG emissions).

At the end of 2019, Kemira set a target to reduce combined Scope 1 and Scope 2 GHG emissions by 30% across the entire company by 2030 compared to a 2018 baseline of 930 thousand tons CO<sub>2</sub>eq. In aligning our company's climate target with the expectations of our stakeholders our ambition is to be carbon neutral by 2045 for combined Scope 1 and Scope 2 GHG emissions. This new target shows that Kemira fully supports the ambition of the UNFCCC Paris Agreement and that we recognize our contribution to the collaboration needed across sectors and stakeholders to ensure the implementation of solutions.

The key solutions allowing us to reduce GHG emissions include: sourcing zero-emission electricity, switching to renewables for our sites, electrification of processes at our sites, and energy efficiency. Offsetting through nature-based solutions remains an option, but at the lowest level in our mitigation hierarchy.

For our Scope 3 GHG emissions, Kemira is committed to working with suppliers to decrease the carbon footprint of our purchased goods and services. To that end, we will also be encouraging suppliers to set their own ambitious GHG reduction targets aligned with the Paris Agreement. Our R&D function is working towards developing more products from bio-based and industrial by-products raw materials, helping to further reduce our Scope 3 emissions.

Kemira's climate action is also readily visible in our products and solutions. Over half of our revenue comes from products that improve end-use resource efficiency. Energy efficiency improvements are a key contributor to this resource efficiency, but we also help customers in other ways like improving biogas yields at wastewater treatment plants.



## **OUR CONTRIBUTION BEYOND THE PRIORITIZED SDGs**

While Kemira has chosen three SDGs to focus on, our mapping shows that Kemira has an impact on and contributes to all the SDGs. We also recognized that the SDGs are interconnected. In this image, we show the main connections between our priority SDGs and the other SDGs. We have also highlighted our main contributions to these SDGs.



Water (SDG6)



**Circular Economy** (SDG12)



**Climate Action** (SDG13)



CORPORATE SUSTAINABILITY

- We are committed to the safety of our employees, customers, contractors, supply chain and communities. This means continuous improvement in the safe operation of our assets and handling of chemicals, and pro-actively providing information about safe use of chemicals.
- Our products and solutions are also firmly rooted in providing safe, clean water to consumers and reducing the burden on the environment.



- We are an active and responsible member of the communities within which we operate. We have ensured that our sites build energy and material synergies such as providing district heating or using waste/side streams from other industries.
- A large part of our business comes from treatment of waste and storm water, enhancing the availability of safe clean water in cities.



- Our commitment to safety and the chemical industry's Responsible Care® program ensures that we minimize waste and emissions into the environment.
- · Our choice of businesses and our strategy focus on the treatment of our customers water, minimizing withdrawals through better reuse and ensuring that any discharge meets environmental regulations to ensure the well-being of life on land or below water



- · Kemira provides almost 5,000 employees with decent work and wages, and we ensure this across our supply chain by requiring our business partners to adhere to our Code of Conduct
- Economic sustainability is central to our company. We aim for growth and good returns on investment to support the economy.



- Kemira R&D is continually innovating to improve the sustainability of our products. We apply sustainability check at each Gate in our New Product Development process to ensure each new product is an improvement on its predecessor.
- · We invest in best available process technology and systems at our sites.



- · We collaborate with academia, research institutions, customers and suppliers to develop and deliver innovative products on to the market.
- We participate in relevant policy and regulatory consultations and discussions together with our trade associations to ensure our strategy aligns with the aims of our stakeholders.

## **RECOGNITIONS 2019**

## CDP

Kemira received a B score in CDP's 2019 rankings. This puts Kemira in the top quartile of the chemicals sector companies requested to disclose to CDP, reflecting the company's continued commitment to transparency, increasing energy efficiency and sourcing renewable energy for our operations. This 2019 result does not yet reflect Kemira's updated climate change target. However, the 2019 result shows that Kemira is on the right track, balancing sustainability with profitability. The score aligns well with Kemira's focus on products that help customers do more with less – less raw materials, water and energy.

The high number steady growth of companies included in the CDP disclosure - now representing over 50% of global market capitalization - provides Kemira with a true performance benchmark.



## **ECOVADIS**

Kemira has been awarded the Gold Recognition Level for the CSR (Corporate Social Responsibility) performance for the fifth consecutive year by EcoVadis, a collaborative platform providing sustainability ratings and performance improvement tools for global supply chains. With a score of 75/100 points, Kemira is among the top 1% of the 55,000 companies participating in EcoVadis. The EcoVadis methodology framework assesses companies' policies and actions as well as their published reporting related to the environment, labor and human rights, ethics and sustainable procurement.

The EcoVadis methodology is based on the international sustainability standards of the Global Reporting Initiative, United Nations Global Compact (UNGC), and ISO 26000. Ecovadis reporting gives confidence to our customers and allows us to position Kemira across a broad range of sustainability themes: environment, fair labor and human rights, ethics and sustainable procurement.



## **CEFIC RESPONSIBLE CARE AWARD**

In 2019, Kemira won the European chemical industry's prestigious Responsible Care® award for environmental responsibility. It was awarded to Kemira's ferric sulphate plant in Pori (Finland), that utilizes recycled industrial byproduct in its drinking water and wastewater treatment products.

Before 2017, Kemira's plant in Pori received its main raw material as a by-product from a titanium dioxide plant in the same industrial area. In January 2017, supply from the plant was interrupted and, to ensure the continuous availability of raw material, Kemira investigated the ferric sulphate landfill nearby that had accumulated from excess unused sidestreams from titanium dioxide production.

Following a successful testing period, Kemira is now utilizing a landfill that contains several million tons of ferric sulphate raw material, putting some 30 years of accumulated industrial by-product back into use, and securing supplies for many years to come.



OUR MANAGEMENT APPROACH I MATERIALITY

# Our management approach

Our corporate sustainability work is guided by our commitments to the Code of Conduct, internationally defined sustainability principles, and stakeholder expectations, as seen in our strategy, corporate policies and integrated management system.

## **MATERIALITY**

## COMMITMENTS

The Kemira Code of Conduct is the foundation for our business conduct at Kemira. Our values are embedded in our corporate culture and connect each of us around the world. Our Code sets a framework around our values and reflects our commitments towards our key stakeholders. We also expect our suppliers and other business partners to maintain the same high standards in their own operations, as defined in our Code of Conduct for Business Partners (CoC-BP).

**The United Nations Global Compact** has been signed by Kemira Oyj as our commitment to respect and promote human rights, implement decent work practices, reduce our environmental impact, and combat corruption.

Responsible Care® is a voluntary commitment by the global chemical industry to drive continuous improvement and achieve excellence in environmental, health and safety and security performance. Through Responsible Care, global chemical manufacturers commit to pursue an ethic of safe chemicals management and performance excellence

worldwide. This helps to enhance public confidence and trust in the industry's dedication to safely manage chemicals throughout their lifecycle while ensuring that chemistry can continue to contribute to a healthier environment, improved living standards and a better quality of life for all. Kemira is committed to operate according to the principles of Responsible Care®.

## STAKEHOLDER EXPECTATIONS

Our key stakeholders include our customers, shareholders, lenders, employees and suppliers. Other relevant stakeholder groups include the local communities where Kemira operates, regulatory bodies, trade associations, decision-makers and opinion leaders.

- A significant share of our investors practice Socially Responsible Investing (SRI). These SRI signatories represent 27% of the ownership of Kemira shares.
- Many of our customers are sustainability leaders in their respective industrial sectors. Kemira plays a role in their value chains, and we are expected to demonstrate the same strong commitment to sustainable business as our customers.

 Our employees see sustainable business conduct as an important factor behind their engagement with Kemira, according to our employee surveys.

Our approach to stakeholder engagement includes activities ranging from information sharing to active dialogue and collaboration on issues of mutual interest. We regularly review our stakeholders' expectations and potential concerns.

OUR MANAGEMENT APPROACH I MATERIALITY

## Stakeholder engagement (GDI 102-40 42 43 44)

LIST OF STAKE- HOLDER GROUPS	IDENTIFYING AND SELECTING STAKEHOLDERS	APPROACH TO STAKEHOLDER ENGAGEMENT	KEY TOPICS AND CONCERNS RAISED	KEMIRA'S RESPONSE
Customers	Our customers are Kemira's main source of value creation Our customers' expectations and needs drive our product portfolio and offerings	<ul> <li>Direct customer contacts</li> <li>Customer webinars, events, newsletters</li> <li>Customer satisfaction measure Net Promoter Score has risen to 39 (33 in 2018) and is currently on a "good" level.</li> <li>Key drivers in customer satisfaction are the technical service, speed and proactivity, as well as our ability to offer new solutions</li> </ul>	Sustainable product offerings and chemical safety Capability to proactively understand customer needs and to offer new products and solutions Business ethics Our sustainability management and performance throughout the value chain	R&D project portfolio management Updated sustainability check in New Product Development Process Product lifecycle management for all aspects of product safety Improve understanding of customer needs beyond current offerings Sustainability performance data submitted on request
Shareholders and lenders	Share of our value creation through dividends and interest payments     Expectations for return on investment, good corporate governance practices and sustainability performance	Regular events like roadshows, conference calls and one-to-one meetings. In 2019, we had 22(20) roadshow days, and 260 (280) institutions were met in 130 (150) meetings	Overall management approach to sustainability issues, including climate change impact mitigation  Potential business risks and opportunities related to sustainability of products, operations, ethics and compliance	Transparent and regular reporting and disclosure Participation in CDP Climate Change program Responding to rating company and investor questionnaires
Employees	Share of our value creation through compensation and benefits     Employees' engagement, well-being and competencies influence our operational performance and value creation	Performance management and development process Regular Town hall meetings globally Co-operation with employee representatives eg. Kemira European Forum Engagement surveys Ethics and Compliance hotline Local wellbeing programs in all regions	<ul> <li>Understanding Kemira's strategy and future direction</li> <li>New ways of working</li> <li>Ways of developing competences for the future</li> <li>Company sustainability impact and efforts</li> </ul>	Strategy refresh communication and action planning     Performance and development discussions     Leadership development     Systematic competence development     Team engagements on sustainability
Suppliers	Share of our value creation through payments for goods and services     Suppliers' sustainability performance may impact our operational efficiency and business risks	Working closely with core suppliers to help them meet our sustainability performance expectations, and take corrective actions if needed	Safety     Business ethics and compliance	Suppliers are asked to commit to Kemira Code of Conduct for Business Partners     Supplier sustainability assessments and audits
Local communities	Share of our value creation in the form of tax payments and employment.     The safety and environmental performance of our operations may impact the acceptance of our local presence	Dialogue and collaboration with local communities at major sites to ensure we understand and address their concerns     Collaboration with schools and universities	Exposure to safety and environmental risk     Employment opportunities	Environmental impact and process safety risk assessments     Regular and open dialogue with local communities (e.g. open door days)
Regulatory bodies, trade associations, decision- makers and opinion leaders	These stakeholders have the capability to influence or make political decisions on legislation with an impact on our operations and business	Memberships in industrial trade associations     Subject-specific dialogue with regulatory bodies on national and EU level	Resource efficiency     Chemicals safety     Climate change mitigation	Position paper on relevant topics such EU review on urban waste water treatment Actively participating in dialogue on EU directive proposal on single-use plastic Participation in CEFIC Participation in the Chemical Industry Federation of Finland and their "Carbon Neutral Chemistry 2045" roadmap development

CORPORATE SUSTAINABILITY

OUR MANAGEMENT APPROACH I SUSTAINABILITY

## **HOW WE MANAGE SUSTAINABILITY AT KEMIRA**

Sustainability is at the core of what we do and supports execution of our strategy and long-term value creation.

## **SUSTAINABILITY PRIORITIES**

Our sustainability priorities are based on the most material impact of our business model, on the increasing expectations of our customers, investors and other stakeholders, and on our commitment to the Kemira Code of Conduct and internationally defined sustainability principles.

Kemira measures progress in the priority areas through Group level KPIs and targets which are approved by the Management Board and reviewed by the Board of Directors.

We have three priority areas which cover the six most material topics and their impact.

OUR PRIORITIES	MATERIAL TOPICS
Sustainable products and solutions	Product sustainability in end-use: Products improving our customers' sustainability and use-phase resource efficiency  Product stewardship: Chemical safety management throughout the lifecycle of our products
Responsible operations and supply chain	Responsible management of our operations to ensure safety of our people, and to protect our assets and environment. Key topics are Workplace safety and Climate change Supplier management for risk and compliance management
People and integrity	People: Engagement and competence development of our employees Integrity: Responsible business practices in our own operations and with our business partners



## **kemira**

# TURNING PRIORITIES INTO COMMITMENTS AND TARGETS Sustainability is an integral part of strategy and implementation at Kemira.

### COMMITMENTS

- Incorporating sustainability into our products and solutions
- Proactive product stewardship throughout the products' lifecycle

## **KPIS AND TARGETS**

 At least 50% of our revenue is generated through products improving customers' resource efficiency



Sustainable products and solutions



Responsible operations and supply chain

## COMMITMENTS

- Culture and commitment to people
- Ensuring compliance with Kemira Code of Conduct

## **KPIS AND TARGETS**

- Employee engagement index above the external industry norm
- Leadership development activities, two per people manager position, cumulative target 1,500 by 2020 (2015=0)
- Integrity index above the external industry norm

People and integrity



## COMMITMENTS

- Ensuring responsible operations to protect our assets, environment, employees, contractors, customers and communities
- Ensuring compliance with responsible business practices in our supply chain

## **KPIS AND TARGETS**

- Workplace safety TRIF 2.0 by 2020, long-term vision of zero
- Reduce combined Scope 1 & 2
   GHG emissions 30% by 2030
- Supplier management; 90% of direct key suppliers screened through sustainability evaluation through assessments and audits (Baseline 55% in 2017)

OUR MANAGEMENT APPROACH | PERFORMANCE 2019

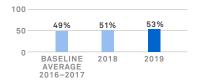
# **KPIs, TARGETS AND PERFORMANCE 2019**



Sustainable products and solutions

### PRODUCT SUSTAINABILITY AHEAD OF TARGET

Share of revenue from products used for use-phase resource efficiency. At least 50% of Kemira's revenue generated through products improving customers' resource efficiency.





Responsible operations and supply chain

#### **WORKPLACE SAFETY** IN PROGRESS

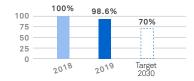
Achieve zero injuries in long term; TRIF\* 2.0 by the end of 2020.



\* TRIF = Number of Total Recordable Injury Frequency per million hours, Kemira + contractors

### **CLIMATE CHANGE** IN PROGRESS

Reduce by 30% combined Scope 1 and Scope 2 GHG emission across the whole company by 2030 compared to 2018 baseline (930 thousand tonnes CO<sub>2</sub>eq). Ambition to be carbon neutral by 2045.



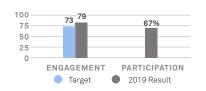


People and integrity

### **EMPLOYEE ENGAGEMENT** SCORE BASED ON MYVOICE SURVEY

#### IN PROGRESS

Engagement score above the external industry norm.



### INTEGRITY INDEX IN PROGRESS

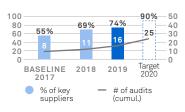
KPI to measure compliance with the Kemira Code of Conduct. The target is to maintain the Integrity Index level above the industry benchmark of 77%.



Based on responses to the integrity focused questions in the Voices@Kemira biennial

### SUPPLIER MAGEMENT IN PROGRESS

% of direct key suppliers screened through sustainability assessments and audits (cumulative %). The target includes five sustainability audits for highest risk \*\* suppliers every year, and cumulatively 25 by 2020.

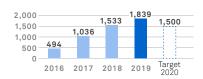


\*\* Suppliers with lowest sustainability assessment score.

### LEADERSHIP DEVELOPMENT ACTIVITIES PROVIDED, **AVERAGE**

#### AHEAD OF TARGET

Two leadership development activities per people manager position during 2016-2020, the cumulative target is 1,500 by 2020.



OUR MANAGEMENT APPROACH I GOVERNANCE

# **GOVERNANCE**

The Management Board approves our corporate sustainability priorities, key performance indicators (KPIs) and targets. The Board of Directors is duly informed about these targets, and our related performance, and they also approve the sections of the Annual Report which cover sustainability information -the Business Overview, Corporate Sustainability and non-financial information statement in the Board Review. Climate-related risks and opportunities are part of the overall governance.

Responsibility for individual corporate sustainability targets is shared between the members of the Management Board.

The Director of Sustainability is responsible for ensuring that relevant management processes relating to material corporate sustainability topics are being developed and implemented as part of our strategy and integrated management system. The Corporate Sustainability Management Team has members from different functions and the business segments. It acts as a collaboration forum to ensure the implementation and follow-up of sustainability as part of daily business operations.

CORPORATE SUSTAINABILITY PRIORITIES	ACCOUNTABILITY OF MATERIAL TOPICS ON THE MANAGEMENT BOARD LEVEL	RESPONSIBILITY BY POSITION
Sustainable products and solutions	Product sustainability	Chief Technology Officer
Å	Product stewardship	EVP, Operational Excellence
Responsible operations and supply chain	Workplace safety	EVP, Operational Excellence
<u>My</u>	<ul> <li>Climate change</li> <li>Emissions from our own energy production, Scope 1</li> <li>Emissions based on purchased energy, Scope 2</li> </ul>	<ul><li>Segment Presidents</li><li>EVP, Operational Excellence</li></ul>
	Supplier management	EVP, Operational Excellence
People and integrity	Leadership and employee engagement	EVP, Human Resources
	Responsible business practices and compliance with Code of Conduct	Group General Counsel

## INTEGRATED MANAGEMENT SYSTEM

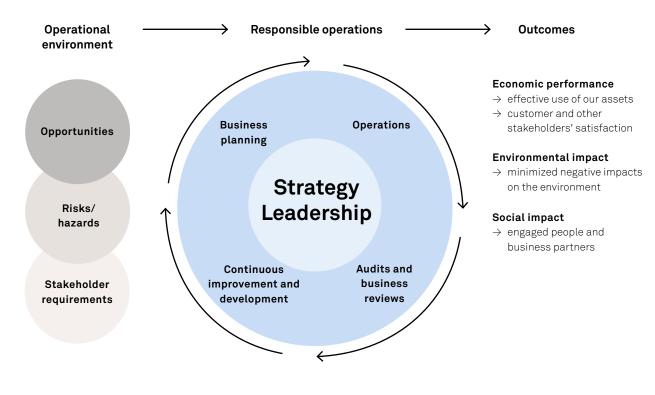
Globally, we aim to bring together all of our operations under the Kemira Integrated Management System. The Kemira management system defines the way our organization is working through the set of policies, standards, procedures and processes. It also defines the requirements and accountabilities at each level of the organization.

Conformance to Integrated Management System and compliance to legal requirements are ensured by regularly monitoring the performance indicators and by conducting internal and external audits and management reviews. The management reviews are performed at all levels of the organization from manufacturing to regional management and the Management Board.

Kemira has a principle that all operations under our Integrated Management System meet the international standards ISO 9001:2015 for Quality, ISO 14001:2015 for Environment, and OHSAS 18001:2007 for Occupational Health and Safety. Our Energy Management System is certified to ISO 50001:2001.

Our Integrated Management System is externally audited through a three-year audit scheme. In 2019, we had 54 (54) internal and external management systems audits, including manufacturing sites, major office locations and R&D centers.

# Integrated management system



# Number of manufacturing sites certified in 2019

	EMEA	AMERICAS	APAC	Total*
ISO 9001	31	15	6	52 (85%)
ISO 14001	31	14	6	51 (84%)
OHSAS 18001**	31	15	6	52 (85%)
ISO 50001	5			

<sup>\*</sup> Number of sites included in the scope was 63 in 2019. Two manufacturing sites started operations in late 2019 in APAC (one will be certified in 2020 and the other in 2021). One ISO 9001 certified site was closed in 2019.

<sup>\*\*</sup> One site had its EHSQ Management System certified under ISO 45001:2018 (equivalent of OHSAS 18001).



Our Code of Conduct and respective policies cover all areas of Kemira's operations and define the framework for our Integrated Management System. Kemira issues and maintains policies to document and communicate Kemira's expectations concerning important internal processes and activities. Our policies create a framework for consistent practices and enforce compliance in our daily operations. All Kemira policies can be found in the document management system, and there is training available if so required for effective implementation. The policy owner ensures that an adequate monitoring system is implemented to monitor the level of compliance with the policy.

CORPORATE SUSTAINABILITY TOPICS	KEY POLICIES	POLICY OWNERS
Sustainable products and solutions	Product stewardship policy	Head of Product Stewardship and Regulatory Affairs
· I	Trade compliance policy	Head of Product Stewardship and regulatory affairs
	Intellectual Property Rights policy	Chief Technology Officer
Responsible operations and supply chain	EHSQ policy (including Energy policy)	Head of Environment, Health, Safety and Quality
The state of the s	Sourcing and procurement policy	EVP, Operational Excellence
	Logistics and transportation policy	Head of Global Supply Chain Management
People and integrity	Recruitment policy	EVP, Human Resources
	Global competition law compliance policy	Group General Counsel
	Gifts, entertainment and anti-bribery policy	Group General Counsel

# PRODUCT SUSTAINABILITY IN END-USE



# **MANAGEMENT APPROACH**

At Kemira, we use our chemistry to add sustainability into our customers' manufacturing processes and products. Through our chemistry, we play our part to enable the world to move towards more bio-based, recyclable and reusable materials.

Products and solutions addressing the sustainability requirements of our customers are a crucial part of Kemira's long-term strategy and core business. The use of our products and solutions benefits customers by improving the resource efficiency and quality of their products. Our business model is business-to-business.

In 2018, we introduced a KPI to measure the share of revenue from products used to improve use-phase resource efficiency. This KPI provides a crucial linkage to our purpose and strategy and is one factor to steer New Product Development (NPD) project selection.

Products included in the KPI are aimed at material, energy and water efficiency at the customer use phase and are linked to the following types of main applications:

# Pulp & Paper

- Pulp processing
- Runnability of paper and board machines
- Process and wastewater management
- · Material and fiber efficiency

# **Industry & Water**

- Raw water and wastewater treatment
- Sludge dewatering and sludge to energy (biogas)
- Digital solutions for process optimization
- Oil and gas material flow improvement
- Oil and gas yield improvement

The product categories falling into the scope of the KPI are mainly coagulants, polymers and process chemicals.

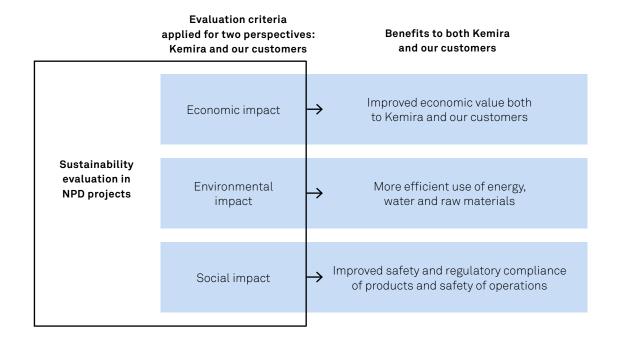


Kemira's NPD process follows a stage-gate model. Successful projects must demonstrate both improved sustainability and business benefits at each decision gate to justify the project's continuation, and ultimately the product launch. Our sustainability evaluations examine the economic, environmental and social impact of any new product, both in Kemira's operations and in our customers' operations. The NPD projects also aim to identify and evaluate more sustainable and bio-based alternatives for raw materials, in terms of sources, and use in whole life cycle and safety.

### **RESULTS AND KEY ACTIVITIES IN 2019**

- · Product sustainability KPI was approved by the Management Board in June 2018: the share of revenue from products used for use-phase resource efficiency, with a target of at least 50% of our revenue generated by products improving customers' resource efficiency. 2019 result was 53% (51%).
- We started 24 new and finalized 10 NPD projects in 2019. Out of these new projects 15 are planned to increase resource efficiency. Commercialization of five NPD projects started in 2019 and three of them are designed to improve customers' resource efficiency.

# Sustainability evaluation throughout the New Product Development projects



### PRODUCT STEWARDSHIP

### **OUR COMMITMENT**

Proactive product stewardship throughout the products' lifecycle. Our management commitment is to ensure the safe production and use of our products throughout their lifecycle.



Customer health and safety, marketing and labeling, socioeconomic (product) compliance.

### PRINCIPAL RISKS

Regulatory requirements related to product safety are always evolving. These requirements can both influence and reflect our stakeholders concerns. The outcome of regulatory processes can lead to authorization or restrictions of use which can be a risk to Kemira.

### MANAGEMENT APPROACH

Kemira's Product Stewardship Policy defines the minimum requirements for our operations to ensure that our products can be safely used by our stakeholders, and that chemical risks and their impact are incorporated in decision-making relating to our business. Chemical hazard assessments are not only prepared for products but also for raw materials, process aids and intermediates; and are incorporated in change management process during their full lifecycle. Product stewardship is the key pillar in the Responsible Care program. Product Stewardship involves the proactive management of the health, safety and environmental aspects of a product throughout its lifecycle. Our



customers have their own health, safety and environmental requirements for their input materials, and they typically follow several voluntary certification schemes, including eco-labeling schemes, which set further expectations on our product offerings. Public discussion and concerns relating to specific chemicals and their hazards also affect our approach to product stewardship and chemical management. Product stewardship provides a platform that helps us to identify risks at an early stage and manage those risks along the value chain to fulfll the expectations of different stakeholders.

## Product regulatory compliance

The manufacturing and sale of chemicals are widely regulated around the world. Continuous follow-up of the regulatory development activities is the prerequisite for business compliance and plays a key role in ensuring product safety for customers, value chain and stakeholders.

# Product lifecycle management

All of our products, handled raw materials and intermediates need to comply with all applicable chemical regulatory requirements in the countries where we manufacture and/or sell chemicals. Assessments examining regulatory compliance, human health impact, safety issues and environmental protection aspects all form part of our Product Lifecycle Management process from conception and development to manufacturing and sales, and finally to product elimination. All data related to chemical products and substances including raw materials is managed in Enterprise Resource Planning system and is linked to Product Lifecycle Management tool/process.

# Priority substance management

We actively track our portfolio for priority substances that are subject to future regulatory restrictions or associated with particular concerns, and prepare management plans for these substances. Our priority substance management plan aims to define the specific risks associated with each substance, examine options for managing these specific risks, and formulate action plans for the preferred options. These options to mitigate risks may include, for example, substitution, phase-out or limiting exposure.

# Commitment to animal welfare and sustainable palm oil supply

Kemira is committed to reducing, refining and replacing animal testing wherever possible. Kemira does not itself perform any animal experimentation in-house. All animal testing commissioned by Kemira is done to the highest of animal welfare standards following national and international legislation on the protection of animals and only if specifically required by legislation or for product safety purposes.

When using palm oil derivatives, Kemira screens and relies on suppliers who have shown commitment to the Roundtable on Sustainable Palm Oil (RSPO) supply chain standard for sustainable palm oil. However, RSPO certified palm oil currently has limited availability and Kemira is also forced to use palm oil derivatives without certification.

## **KEY ACTIVITIES IN 2019**

- · Kemira has signed up to Cefic's (European Chemical Industry Council) Action Plan to re-evaluate our chemicals safety data following the launch of the voluntary industrywide initiative on REACH registration dossiers in June 2019.
- Kemira completed Korean REACH (K-REACH) preregistrations of the existing substances based on our business needs by the deadline on June 30, 2019.
- · Kemira complied with the U.S. EPA requirement for chemical manufacturers and processors to report active chemicals under the Toxic Substances Control Act (TSCA) Inventory Reset Rule.
- Our Product Lifecycle Management (PLM) system was upgraded to integrate both raw material, manufacturing and product master data, documents and basic product management as a central information hub to facilitate communication and collaboration throughout the product lifecycle.

# Product stewardship management approach

Fulfill the customer specific needs

Base level for chemical industry to operate

Value from product stewardship

Compliance with application specific regulations Industry sector

specific requirements (for example, food contact materials, drinking water quality, offshore chemicals, biocides)

Compliance with chemical product regulations

Product registrations

Product authorizations

Safety data sheets

Product labels

**Proactive** management of potential product risks and safety issues

> Priority substance and management

Product safety issues the life cycle

> Compliance with voluntary commitments

Responsible Care initiative (ICCA) to continuously improve the EHS performance of our products and processes

Compliance to Eco-label schemes of our customers

Compliance with regulations

Voluntary initiatives

# Chemical risk and impact evaluation

# **WORKPLACE SAFETY**

## MANAGEMENT APPROACH



All aspects of safety management are fundamental to our operations: people safety, process safety, chemical safety and transportation safety. Incidents in our operations can have consequences for our people as well as to those third parties that are working for us at Kemira sites or at a location where Kemira is present.

employees, contractors and business partners.

Our long-term vision for safety is "Zero harm for people". We believe all incidents are preventable. Our target is to be world class in workplace safety. We measure our safety performance with Total Recordable Injury Frequency per million hours (TRIF) covering Kemira employees and contractors. We have set a new TRIF target beyond 2020 of ≤1.5 for 2025.



### **RESULTS AND KEY ACTIVITIES IN 2019**

In 2019, our safety performance was TRIF= 2.1 (3.5), a result that was significant improvement over 2018. We continued our work towards improving health and safety culture to prevent incidents and mitigating health and safety hazards.

We have now achieved a TRIF level from which further development is highly dependent on the safety behavior of people.

- The Behavior Based Safety program (BBS) was initiated in 2016 and continued in 2019. The program now covers all manufacturing sites. The overall aim of this program is to improve safety performance by focusing on the behavior of people. Our safety development now needs a strong focus on behavior-based safety, and people's hearts and minds to work successfully.
- This year a global program to ensure the comprehensive assessment of employee work-related exposures was initiated. Although our manufacturing locations already had programs for the management of occupational exposures, a global program was needed to improve consistency across all Kemira. This program included the Assessing and Managing Occupational Exposures Standard, which requires not only regulatory compliance but also is based on industry best practice. Implementation will continue into 2020.

- In order to protect external stakeholders at our manufacturing locations, we continued an aggressive training program to inform visitors, contractors and truck drivers of the potential hazards and safety requirements of our plants. This took the form of e-learning training modules with detailed manufacturing location-specific safety information. These modules allow visitors to complete the training prior to arrival on-site, thus able to be fully engaged and focused on their task while on-site. These e-learnings were implemented in some regions in 2019 and will be fully implemented globally in 2020.
- We completed the "Life Saving Rules" campaign this year. These rules were derived from analysis of 20 years of industry data. This important campaign was undertaken for several reasons, including; an increase in individual awareness of ownership of critical safeguards, improvement in clarity and consistency by contractors and operators, and finally a better transfer of knowledge, experience and lessons learned.
- In 2019, TRIF was a bonus KPI for all Kemira employees.
   Additionally, most employees' personal KPIs included leading safety indicators such as Hazardous Conditions,
   Hazardous Activities and BBS reporting.

For more information, see GRI 403-2 on page 55.



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#### OUR MANAGEMENT APPROACH I RESPONSIBLE OPERATIONS AND SUPPLY CHAIN

# **CLIMATE CHANGE**

### MANAGEMENT APPROACH

Kemira is committed to climate action and has introduced a new target to reduce combined Scope 1 and Scope 2 emissions by 30% by 2030, from a 2018 baseline of 930,000 tons CO<sub>2</sub>eq. Our longterm ambition is to be carbon neutral by 2045 for combined Scope 1 and Scope 2 emissions.

For our Scope 3 emissions, we are committed to working with suppliers to decrease the carbon footprint of our purchased goods and services. We also encourage suppliers to set ambitious greenhouse gas (GHG) reduction targets aligned with the Paris Agreement.

Kemira fully supports the ambition of the UNFCCC Paris Agreement, and stresses the importance of collaboration across sectors and stakeholders to ensure the implementation of solutions.

The key near-term measures to reduce our emissions include:

- Purchasing zero-emission electricity and steam.
- Shifting our use of fuels towards less carbon-intensive energy sources.
- Improving energy efficiency at our manufacturing sites. Longer-term solutions include electrification of our processes and offsetting of any residual emissions.

### **RESULTS AND KEY ACTIVITIES 2019**

- Sodium chlorate manufacturing sites in Finland and the United States are the largest consumers of electricity. Finland accounted for 46% (46% in 2018) and United States 32% (33%) of Kemira's total purchased electricity in 2019. Electricity price risk is mitigated through strategic ownership of energy-generating companies, and by hedging a portion of our energy and electricity spend. In Finland, Kemira owns shares in the Finnish energy companies Pohjolan Voima Oyj (PVO) and Teollisuuden Voima Oyj (TVO), and the rest of the electricity is purchased from the Spot-market. In other countries, energy is purchased from local suppliers, taking into account the type of energy source.
- The share of carbon-free sources counted for approximately 64% of total fuel. During 2019, Kemira received Guarantee of Origin certificates for 68,293 MWh (90,706 MWh 2018) of electricity purchased from hydropower suppliers in Finland. All the certificates granted to Kemira were canceled (i.e. made non-tradable, with their benefits exclusively redeemed by Kemira).
- The continuous E3plus energy efficiency improvement program continued and energy savings (23.3 GWh/a) were achieved.

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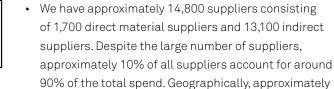
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### SUPPLIER MANAGEMENT

# **DESCRIPTION OF OUR SUPPLY CHAIN**



- · Our Sourcing activities cover the identification and selection of suppliers, the consequent negotiations and contract management, and the management of supplier relationships. Our supplier selection criteria are based on cost competitiveness, short-term operational excellence, long-term business stability as well as sustainability performance.
- Our Supply Chain Management activities cover all supply chain related services to our business segments once the supplier relationship has been established by our Sourcing function. Supply Chain Management services include Customer Service, Logistics, Supply Chain Planning, and Procurement. The Supply Chain Management function has regional units that each provide all the services needed within their respective regions.
- The total spend of the Sourcing categories "direct materials" and "indirect goods and services", amounted to about EUR 2.0 billion in 2019. The direct materials cover all raw materials, packaging and energy while indirect goods and services include all non-raw material related spending, for example, on equipment, services, and logistics.



### MANAGEMENT APPROACH

half of our suppliers reside in Europe.

Supplier management and supplier risk and compliance management are cornerstones of our sustainable sourcing roadmap that ensure responsibility in our supply chain. Our Supplier Management focus is on improving economic performance, anticipating risk and initiating approaches with suppliers that are responsible and innovative. It is described in three main processes: Supplier Segmentation, Supplier Performance Evaluations (SPE) and Vendor Value Program.

- Our suppliers are segmented into four categories: strategic, critical, volume and base suppliers, and prioritized based on multi-factor risk criteria to help us better manage our suppliers and plan actions for necessary risk mitigation.
- The SPE program collects and provides regular feedback to our suppliers both on their operational and sustainability

- performance. The majority of our strategic, critical and volume suppliers are part of regular supplier reviews.
- Our Vendor Value Program is aimed at developing capabilities that will enable us to identify, partner with, and manage those suppliers, along the various value chains associated with Kemira's product lines.

Our **supplier risk and compliance** management defines the requirements for suppliers to do business with Kemira, as well as provides tools and processes for mitigating the sustainability risk with our suppliers (sustainability assessments and audits).

### Code of Conduct for Business Partners (CoC-BP)

All of our suppliers must follow our Code of Conduct in relation to all of their dealings with Kemira. Our Code of Conduct is communicated to all suppliers through the ordering process as part of Kemira terms and conditions.

• Supplier adherence to these principles is controlled in different stages of our Sourcing processes starting from the new supplier screening/new vendor creation process, to contracting where the commitment to our CoC-BP is integrated in the contract templates. Finally, we have

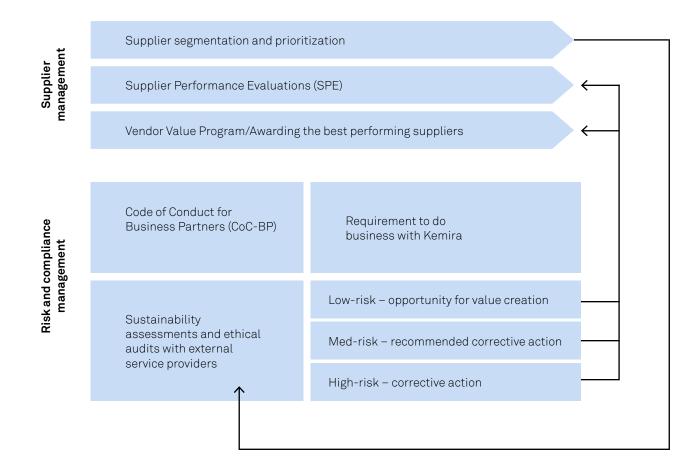
STRUCTURE OF KEMIRA'S SUPPLIER BASE	DIRECT MATERIALS	INDIRECT GOODS AND SERVICES
Number of suppliers, approximately	1,700	13,100
EMEA	800	7,200
Americas	600	4,200
APAC	300	1,700
Number of suppliers that form 80% of the category spend	10%	8%

continuous monitoring in place for those contracts exceeding certain spend thresholds to make sure we are reasonably covered (GRI 308-1: Supplier Environmental assessment; GRI 414-1: Supplier social assessment).

# Supplier sustainability assessments and audits

- We use Supplier Assessments and Audits to evaluate and understand better how well our suppliers are acting in a way that is consistent with our principles and values (i.e. CoC-BP).
- The assessment platform is provided by an external third-party company which is specialized in standardized supplier sustainability evaluation based on the international sustainability standards of the Global Reporting Initiative, United Nations Global Compact, and ISO 26000.
- Supplier Corporate Social Responsibility audits are conducted by an external auditor as an on-site audit. The audit protocol covers labor standards, health and safety, environment, and business ethics criteria. The auditors summarize their findings in a detailed report which also contains a corrective action plan which is then reviewed and followed-up with the supplier as needed, and depending on the case.
- The assessment and audit results also feed into our SPE program and depending on the results, have different consequences. If audits or assessments indicate a high risk and room for improvement, this is also discussed with the supplier when we provide feedback on the general SPE result.

# Supplier and supplier risk and compliance management



### **RESULTS AND KEY ACTIVITIES IN 2019**

- Sustainability assessments: We continued enrolling new suppliers into our Sustainability program. A total of 220 (167) suppliers have now gone through the assessment and have recorded an average score of 54, which is higher than industry average on assessed average on the platform. Results with low scores were reviewed together with suppliers and improvement plans were made accordingly. In most cases, low scores were due to lack of supporting documentation provided by the vendor to the assessment company. Around 61% of the 171 reassessed suppliers were able to improve their score.
- In 2019, we conducted five Coporate Social Responsibility audits with no business stopping results. Audit results were reviewed together with supplier and improvement plans created and followed up accordingly as part of our supplier management practices. Most common corrective actions were related to working hours and wages as well as improving the safety at supplier's site.
- · Both Supplier assessments and audits are part of sourcing processes and Sourcing function target setting and are monitored on monthly basis. On total level all related KPIs were met in 2019.

- In 2019, as part of our Vendor Value Program we collected 64 value proposals from our suppliers. Majority of the value proposals were around improving supplier product offering either though better performance, cost or sustainability, improving the operations in the supply chain or sharing market intelligence. Value Proposals, in liaison with operational performance and contractual commitment, is one of the key criteria determining which suppliers to award. Currently we are in progress of selecting the third annual round of suppliers to award during Q1 of 2020.
- Quality audits: Large spend suppliers also undergo quality audits, which include management systems, workplace health and safety standards, production quality and supply security. In 2019, 28 quality audits were conducted.



# ENGAGEMENT AND LEADERSHIP



#### MANAGEMENT APPROACH

Our values and the principles of our Code of Conduct are the foundation for creating a strong company culture and commitment to people. We aim to offer employees the right mix of opportunities and challenges in a global and diverse working environment. Our result-oriented and collaborative culture empowers employees to solve the challenges of tomorrow. Together, we can have a major impact on our future. Our offering to employees includes working with a company with the purpose of improving water quality and commitment to sustainability, talent management, leadership development, performance management and competence development, reward and recognition, and safety and well-being.

### **RESULTS AND KEY ACTIVITIES IN 2019**

# Engagement: Moving to continuous employee feedback and listening model

During 2019, we initiated our continuous feedback and listening model for prioritized areas. Because we have adopted these new methods for the first time in 2019, we cannot directly compare engagement scores, trends or participation rates from Voices@Kemira 2018 to MyVoice 2019. Glint is our new supplier with a track record in this field of expertise and will work with us as we transition to new agile methods of engagement measurement, benchmarking

and taking action. We will continue to embed this as a way of working for managers and employees. In 2019 we piloted the model for prioritized scope including for competence development for commercial teams, EHSQ lifesaving rules for Manufacturing and Sales, and onboarding new hires. In November 2019, we completed a MyVoice short survey on strategy awareness and engagement. Engagement score was 79, which is 6 points above the external manufacturing benchmark. This score puts Kemira in the top 20% of Glint customers globally across all industries and it is the first time Kemira has reached this percentile. The participation rate was 67% with 3,354 responses.

The Voices@Kemira 2018, our previous biennial employee engagement survey, was conducted in April 2018. Employee Engagement was 71% (target 69%), and 4% higher than in the previous survey in 2015. Strategy and Change was agreed to be the company-wide area for action planning and extensive communications have been completed as part of the refreshed strategy communication.

### Talent management and leadership development

Our Talent Management culture is well in place, with both the systematic processes and leadership capabilities to identify and develop employees with potential for leadership positions globally. We continued to build a strong leadership bench to meet our business needs in relation to executing our strategy and driving our long-term growth. We rolled out a new program for identified non-executive leadership talents to fast-track their development and increase their exposure to senior

leaders. We are working to ensure that strong development plans are in place for talents and for key position successors. Leadership development plans included on-the-job learning, learning from others, as well as formal program. Our leadership development target 2016–2020 is 1,500 activities, that is on average at least two leadership development activities per people manager. By the end of 2019, we were at 1,839 activities and ahead of the target.

# Performance management and competence development

Kemira's performance management process aligns our strategic targets with each employee's personal targets, competencies and development plans. This process is well-established within Kemira as part of our leadership culture, and it forms the backbone of our management system.

To ensure the process also meets future needs the process was redesigned during 2019 utilizing design thinking principles and tools. The process was further developed engaging with several hundreds of employees and managers across Kemira. The renewed process was successfully launched in the beginning of 2020.

OUR MANAGEMENT APPROACH | PEOPLE AND INTEGRIT

# INTEGRITY

### MANAGEMENT APPROACH



### Our values and Code of Conduct

Our management approach to integrity and responsible business practices is based on our corporate values and our Code of Conduct. These principles demonstrate our commitment to conduct our business in compliance with all applicable laws and regulations, and according to ethical standards.

Our Code of Conduct sets the minimum standards of expected behavior for our employees and business partners. Our internal policies and procedures provide more detailed guidance to steer our daily work and decision-making. Kemira's Code of Conduct was reviewed, updated and approved by the Board of Directors in 2017, followed by an extensive global training and communication campaign during 2017 and 2018. Every employee is expected to comply with Kemira's Code of Conduct. All people managers and leaders are responsible for implementing the Code within their teams. Since 2013, we have required all of our employees to regularly complete the Code of Conduct training, which is currently available in 21 languages. We also train selected employee groups on more specific compliance matters, such as anti-bribery, competition compliance and insider information.

We expect our business partners to follow our Code of Conduct for Business Partners (CoC-BP) in their business activities. Both of these Code of Conduct documents, as well as our corporate values can be found at www.kemira.com.

# **Our Ethics and Compliance Program**

Our Ethics and Compliance Program aims to enhance compliance management at Kemira on a continuous basis. The program addresses all of the following measures taken to manage ethics and compliance risks:

- **Prevention:** measures that help us proactively prevent ethics and compliance risks from materializing
- **Detection:** measures that help us detect where ethics and compliance risks have materialized or may arise
- · Responding: measures that help us investigate and respond to potential ethics and compliance breaches

## Organizational structure for ethics and compliance

- Our **Ethics and Compliance** function is responsible for overseeing the effective implementation of Kemira's Ethics and Compliance program. The status of the program is also reported directly to the Audit Committee on a regular basis.
- The Compliance Committee oversees the management of compliance allegations to ensure fair and sufficient investigation, remediation and consistent disciplinary action across our organization. The committee consists of Group General Counsel, EVP Human Resources, Head of Internal Audit, and Director, Ethics and Compliance.
- Our Local Ethics and Compliance Officer Network consists of employees across the organization based in different regions, who support our regional ethics and compliance communication, activities and overall awareness as part of their work.



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# **kemira**

# Mechanisms for seeking ethics advice and reporting concerns

We promote a culture that encourages our employees to speak freely. We actively encourage our employees to contact their managers, local HR, Legal or Ethics and Compliance function to express their concerns and ask questions.

All of our employees also have access to an externally hosted Ethics and Compliance hotline, which is a 24/7 service enabling them to report potential violations of our Code of Conduct or other ethical concerns. All employees can anonymously submit such reports in their own languages, by phone or through a web form, which can be accessed through Kemira's intranet, wherever such channels are not restricted by local legislation. Information about the availability of the Ethics and Compliance hotline is shared to all employees on Kemira's intranet. We provide regular training and communications to our employees on all of our available channels to report concerns and to assure the anonymity of the report. The hotline system and the process of handling the reports are managed by the Ethics and Compliance function.

The email address compliance(at)kemira.com can be used by third parties to report cases of potential misconduct relating to Kemira or our business partners. This information is available on our website and in the Kemira Code of Conduct for Business Partners.

All allegations of potential violations of our Code of Conduct made in good faith will receive a fair and comprehensive investigation utilizing internal and/or external assistance. Any reporting of potential Code violations are treated as strictly confidential and anonymous to the fullest extent possible.

### **RESULTS AND KEY ACTIVITIES IN 2019**

- Integrity is high at 87% for 2018, this is 10% above the external industry norm. Integrity will be measured using a MyVoice survey in 2020.
- The CoC-BP was reviewed and updated during 2019 and it is now alligned with and reflecting the main principles of Kemira's Code of Conduct.
- 17 concerns or allegations of potential Code of Conduct violations were reported via the Ethics and Compliance hotline, or via other channels, such as direct reporting to the Ethics and Compliance function, local HR or to the Internal Audit. A total of 10 cases were closed with merit.

CONCERNS OF ALLEGATIONS OF POTENTIAL		CASES		OPEN
CODE OF CONDUCT VIOLATIONS REPORTED	NUMBER OF	CLOSED WITH	CASES CLOSED	CASES AS OF
IN 2019	CASES	MERIT	WITHOUT MERIT	DEC 31, 2019
Cases reported via hotline	3	1	2	0
Cases reported via other channels	14	9	5	0
Total number of cases	17	10	7	0

CASES CLOSED WITH MERIT BY ISSUE CATEGORY	NUMBER OF CASES
Corruption and bribery	0
Conflict of Interest	1
Employee relations and fair treatment	5
Harassment	1
Transactions and company records	3
GRAND TOTAL	10

# Our performance indicators

## **ECONOMIC**

# **ECONOMIC PERFORMANCE** GRI 201-1: Direct economic value generated and distributed

Kemira generates economic value from expertise, products and sustainable solutions, enabling our customers to improve their water, energy and raw material efficiency. Kemira distributes the generated economic value to various stakeholders. This includes suppliers and service providers through payments for raw materials and services, employees through compensation and benefits, capital providers through dividends and interest payments, public sector through taxes, and society through local community projects, sponsorship and donations. Taxes have a significant impact on our businesses, financing and growth opportunities. Kemira's approach to tax is to support responsible business performance in a sustainable way. A separate tax footprint report is available at www.kemira.com > Company > Investors.

The economic value retained is reinvested in the company for capital investments, R&D and technology development. The economic value retained increased to EUR 299 million in 2019 (123 in 2018).

## Economic value, cash flow based

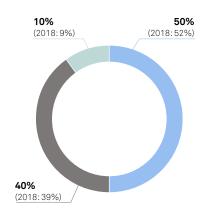
STAKEHOLDER	ECONOMIC VALUE					
	EUR million	2019	2018	2017	2016	2015
Direct economic value generated: Revenues						
Customers	Income from customers on the basis of products and services sold, and financial income	2,687	2,614	2,453	2,386	2,350
Direct economic value distributed						
Suppliers	Payments to suppliers of raw materials, goods and services	1,861	2,001	1,831	1,701	1,709
Employees	Employee wages and benefits	366	352	362	364	356
Investors & lenders	Dividends, interests paid and financial expenses	122	114	117	114	113
Government & Public sector	Corporate income taxes	39	24	25	23	12
Economic value retained		299	123	118	184	160

Community investments were EUR 0,1 million in 2018 through sponsoring and local community participation

OUR PERFORMANCE INDICATORS I ECONOMIC

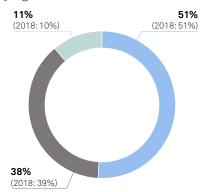
# Economic value distributed by region

# REVENUE BY CUSTOMER LOCATION %



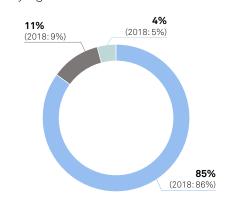
# PAYMENTS TO SUPPLIERS OF RAW MATERIALS, GOODS AND SERVICES





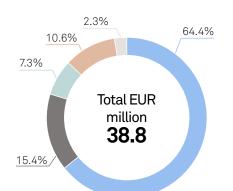
### CORPORATE INCOME TAXES

by region %



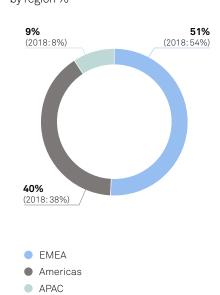
# **ESTIMATED TAXES BORNE 2019**

EUR million and %



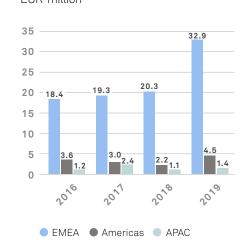
### **EMPLOYEE WAGES AND BENEFITS**

by region %



# CORPORATE INCOME TAXES

EUR million



- Corporate income taxes (excluding deferred taxes)
- Customs duties
- Property taxes
- Waste, energy and excise taxes
- Cost of indirect taxes

OUR PERFORMANCE INDICATORS | ECONOMIC

# **ANTI-CORRUPTION**

# GRI 205-1: Operations assessed for risks related to corruption

Kemira conducted a global ethics and compliance risk assessment in 2016, covering key business operations and functions in all regions. Anti-corruption was one of the key focus areas in the assessment and the results of the assessments were utilized in Kemira's ethics and compliance and internal audit plans for the following years. No significant risks related to corruption were identified through ethics and compliance activities or internal audits in 2019.

# GRI 205-2: Communication and training about anti-corruption policies and procedures

Kemira's principles for anti-corruption are included in the Kemira Code of Conduct and in the Kemira Group Gifts, Entertainment and Anti-bribery Policy. Both documents are available to all employees on Kemira's intranet, and the Code of Conduct is also publicly available at www.kemira.com.

Kemira's Code of Conduct has been approved by the Board of Directors, and as part of our mandatory and regular Code of Conduct training our anti-corruption principles are communicated to all of our employee groups and regions on a regular basis. All members of Kemira's Board of Directors have been trained on our anti-corruption principles.

Kemira provides mandatory anti-bribery training to its white collar employees, who need to have a comprehensive understanding of Kemira's anti-corruption principles. The table below demonstrates the scope of the training, with a breakdown by employee category and regions.

We expect our suppliers and other business partners to conduct their business with integrity and commit to Kemira's Code of Conduct for the Business Partners (CoC-BP) in their business activities with Kemira. According to the CoC-BP, Kemira expects our Business Partners to ensure that they, and third parties acting on their behalf, do not offer, give or

accept improper or corrupt payments, and that they will not engage in any form of bribery. We aim to communicate the CoC-BP to all of our suppliers, agents and distributors. All of our suppliers (engaged with a SAP Purchased Order) receive a written reference to Kemira's CoC-BP as part of the Kemira general terms of purchase on the back of the Purchase Order.

		NUMBER OF PERMANENT EMPLOYEES, NOT ABSENT	NUMBER OF EMPLOYEES RECEIVED TRAINING ON ANTI-CORRUPTION	% OF EMPLOYEES RECEIVED TRAINING ON ANTI-CORRUPTION
A ma a wi a a a	White collars	891	856	96
Americas	Blue collars	674	0	
APAC	White collars	466	450	97
APAC	Blue collars	481	0	
EMEA	White collars	1571	1507	96
EIVIEA	Blue collars	903	0	
TOTAL		4986	2813	56

# GRI 205-2: Total number and percentage of suppliers that the organizations anti-corruption policy has been communicated to

REGION	TOTAL NUMBER OF SUPPLIERS*	TOTAL NUMBER SUPPLIERS* THAT OUR ANTI-CORRUPTION PRINCIPLES HAVE BEEN COMMUNICATED TO	PERCENTAGE OF SUPPLIERS* THAT OUR ANTI-CORRUPTION PRINCIPLES HAVE BEEN COMMUNICATED TO
EMEA	7959	7959	100
Americas	4833	4833	100
APAC	1968	1968	100
TOTAL	14760	14760	100

<sup>\*</sup>The numbers include suppliers engaged with a SAP Purchase Order. In addition to SAP transactions, some small purchases are processed via the travel claim process.

OUR PERFORMANCE INDICATORS I ECONOMIC

# GRI 205-3: Confirmed incidents of corruption and actions taken

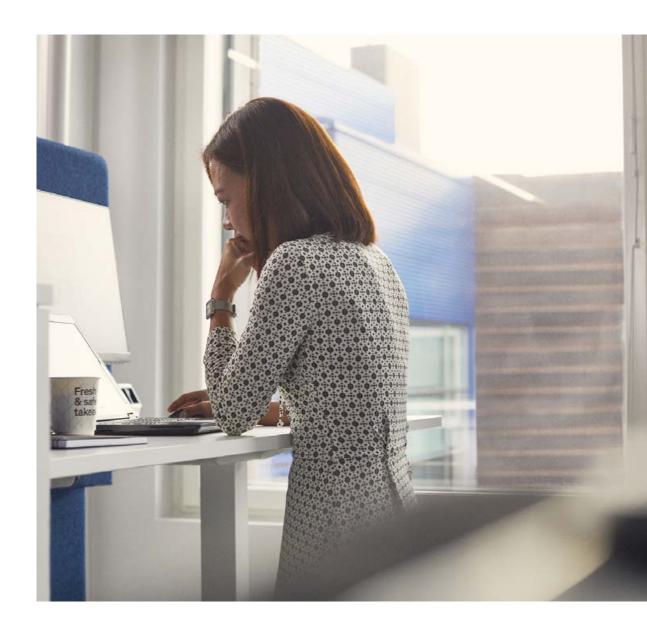
There were no confirmed incidents of corruption or public legal cases regarding corruption in 2019.

# ANTI-COMPETITIVE BEHAVIOR GRI 206-1: Legal actions for anti-competitive behavior, anti-trust, and monopoly practices

In 2019, Kemira had the following pending or completed legal actions initiated under national or international laws designed for regulating anti-competitive behavior, anti-trust, or monopoly practices:

Kemira continued to defend itself against a legal action filed by CDC PROJECT 13 SA against Kemira Chemicals Oy (former Finnish Chemicals Oy) in Amsterdam, the Netherlands, related to an alleged historical infringement of competition law in the sodium chlorate business by Finnish Chemicals Oy between 1994 and 2000. Kemira acquired Finnish Chemicals in 2005.

In the United States, Kemira was involved in two class action lawsuits and 10 individual suits which had been filed during 2015–2018 based on alleged violations of anti-trust laws relating to the sale of certain water treatment chemicals between the years 1997 and 2011. In those lawsuits, Kemira had been named as a defendant among other defendants. The individual legal suits were opt-out suits, whereby the plaintiffs opted out of the class actions. According to Kemira's assessment, all of these class actions and individual lawsuits against Kemira lacked merit. Kemira settled all these class actions and opt-out suits during 2019.



# **ENVIRONMENTAL**

### **MATERIALS**

# GRI 301-1: Materials used by weight or volume GRI 301-2: Recycled input materials used

The renewable materials used include mainly starches, tall oil, and fatty acid derivatives.

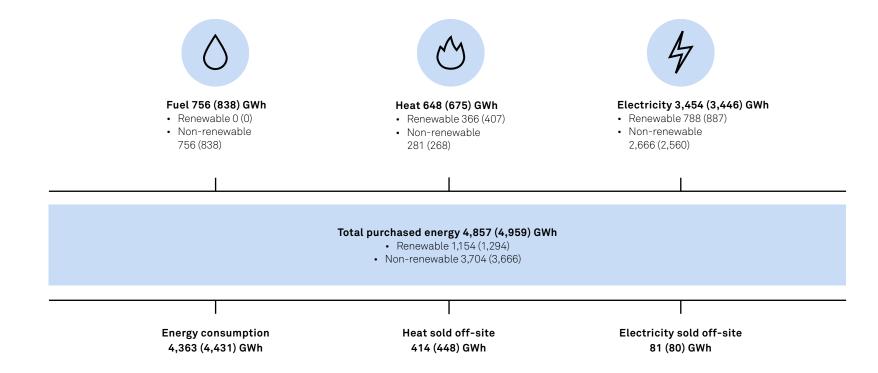
The recycled input materials are industrial by-products and recycled materials from external partners. These materials include mainly inorganic materials such as scrap iron, ferrous sulphate and spent pickling liquor bath. Industrial by-products are mainly from smelters, as well as steel and metal manufacturing. Inorganic byproducts and recycled materials are mainly used in the production of inorganic coagulants, which are used in water treatment, and in which category recycled input material may account for up to 70-80% of all raw materials used. In 2019, approximately 24% (21% in 2018) of raw materials across all Kemira business segments were recycled input materials. In 2018 and 2017, the use of recycled input materials reduced due to the fire at a major supplier in Finland, causing significant drop in ferrous sulphate supplies.

MATERIALS million tonnes	GRI disclosure	2019	2018	2017*	2016	2015
TOTAL MATERIALS USED	301-1	3,342	3,329	3,510	3,536	3,293
Non-renewable materials	301-1	3,284	3,268	3,448	3,458	3,220
Renewable materials	301-1	0,058	0,061	0,062	0,078	0,072
Share of renewable materials, %	301-1	1.7%	1.8%	1.8%	2.2%	2.2%
Recycled input materials used Industrial by-products and recycled material from external partners	301-2	0,804	0,710	0,799	0,945	0,904
Share of recycled materials, %	301-2	24.1%	21.3%	22.8%	26.7%	27.5%

<sup>\*</sup> Data corrected due to more accurate information available

### **CLIMATE CHANGE: ENERGY AND GREENHOUSE GAS EMISSIONS**

# **Energy balance**



ENERGY CONSUMPTION BY GEOGRAPHY IN 2019

Finland **42%** USA **35%** Rest of world **23%** 

GRI 302-1: Energy consumption within the organization

**GRI 302-3: Energy intensity** 

GRI 302-4: Reduction of energy consumption

# **Energy consumption and management**

Energy costs amount to approximately 14% of our total sourcing spend. By continually improving energy efficiency at manufacturing sites, we are consistently reducing our energy usage and equivalent costs.

In 2019, our operations in Finland accounted for 42% of our total energy consumption. The USA accounted for 35%, and other countries 23%.

Approximately 91% of our total energy consumption is used by 14 large manufacturing sites. A substantial portion of our energy management activities is focused on these most energy-intensive sites, which include seven sodium chlorate manufacturing plants in Finland, USA, Uruguay and Brazil.

Electricity is our most important energy source, accounting for 71% of the total energy input. Sodium chlorate plants purchase 90% of the electricity. Therefore, the management of volatile electricity prices play an important role in capacity utilization planning.

ENERGY BALANCE						
GWh	GRI disclosure	2019	2018	2017	2016	2015
TOTAL FUEL AND PURCHASED ENERGY INPUT		4,857	4,959	4,890*	4,719*	4,144
Consumed fuel as energy source		756	838*	841*	886*	582
Non-renewable	302-1a	756	838*	841*	886*	582
Renewable	302-1b	0	0	0	0	0
Purchased electricity	302-1c	3,454	3,446	3,322	3,135*	2,935
Non-renewable		2,666	2,560	2,467	2,573*	2,301
Renewable		788	887	855	562*	634
Purchased heat and steam	302-1c	648	675	727	699	627
Non-renewable		281	268	323	311	262
Renewable		366	407	404	430	365
TOTAL FUEL AND PURCHASED ENERGY INPUT BY SOURCE	302-1a, b	4,857	4,959*	4,890*	4,731*	4,144
Non-renewable		3,704	3,666*	3,631*	3,770*	3,145*
Renewable		1,154	1,294	1,259	992*	999*
TOTAL ENERGY SOLD		495	528	479	492	465*
Heat <sup>1</sup> sold off-site	302-1d	414	448	401	414	390
Electricity sold off-site	302-1d	81	80	78	78	76
TOTAL ENERGY CONSUMPTION <sup>2</sup>	302-1e	4,363	4,431*	4,411*	4,227*	3,679
CHANGE IN TOTAL ENERGY CONSUMPTION <sup>3</sup>	302-4	-68	20*	183	548*	-7
Production volume, 1,000 tonnes		5,128	5,312*	5,164*	5,028	4,845
ENERGY INTENSITY, GWh per 1,000 tonnes of production	on <sup>4</sup> 302-3	0.85	0.83*	0.85*	0.84*	0.76

<sup>\*</sup> Minor updates to data were provided by sites during 2019 data collection.

- 1. Sum of steam, district heat, condensate, and other heat delivered off-site.
- 2. The amount of fuel consumed plus purchased electricity and heat minus heat and electricity sold.
- 3. Comparison of total energy consumption to the previous year.
- 4. Kemira has calculated the energy intensity by dividing total energy consumption with the annual production volume. Energy intensity is strongly dependent on the types of production mix.

# Energy Efficiency Enhancement program – E3plus

During 2019, we continued upgrading our E3plus (Energy Efficiency Enhancement) program established in 2010. The E3plus program aims to reduce the overall specific energy consumption, measured as kWh per tonne of product, at each of our manufacturing sites.

The key focus areas of the E3plus program are:

- Continuing the global alignment of energy efficiency management across all Kemira sites
- Focused and thorough E3 Energy Reviews to identify improvement projects and support their implementation at our manufacturing sites
- · Technical and economic evaluation of investment projects to improve energy efficiency
- Further development of the Kemira energy efficiency management system, improving energy management, and obtaining and maintaining ISO 50001 certification in selected major energy consuming sites.

During 2019, we strengthened our global Energy Management Team (EMT), whose members represent the top management of our manufacturing sites, as well as our global energy sourcing management. The EMT coordinates, steers and supports energy management activities across all regions.

Kemira has joined the voluntary national Energy Efficiency Agreement in Finland ("Energiatehokkuussopimus"), which is a part of EU's response to the Paris Climate Agreement, for the period 2017–2025 (EU-level program). Until now, more than 30 implemented energy savings projects have been reported to the National Energy Authority ("Energiavirasto").

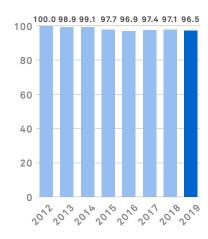
Our energy efficiency measures and activities have a special focus on sites, which have the highest energy consumption. Site-specific energy efficiency targets are defined for the largest energy consuming sites, based on energy consumption baseline data, the findings of E3 Energy Reviews, and the availability of resources.

In 2019, we continued to focus on large-scale manufacturing processes, with investments made in more energy efficient equipment and production lines. The continuous modernization of the process equipment used in our most energy-intensive sodium chlorate plants, especially those in Joutseno (Finland), Äetsä (Finland), Fray Bentos (Uruguay) and Ortigueira (Brazil), has enabled us to achieve and sustain a desired energy efficiency level. Furthermore, Kemira Oyj's Energy Management System in Europe and the manufacturing sites in Helsingborg (Sweden), and Äetsä and Joutseno (Finland), San Giorgio (Italy) and Fredrikstad (Norway), have been certified to ISO 50001.

Energy savings were additionally achieved during 2019 through the implementation of 27 projects (25 in 2018) across Kemira's operations. The resulting energy savings totaled 23,327 MWh (19,175 MWh in 2018) with cost savings of EUR 0.7 million (EUR 0.6 million in 2018). The cumulative cost savings that were achieved through the implementation of 532 such initiatives completed globally since 2010, now total EUR 11.1 million.

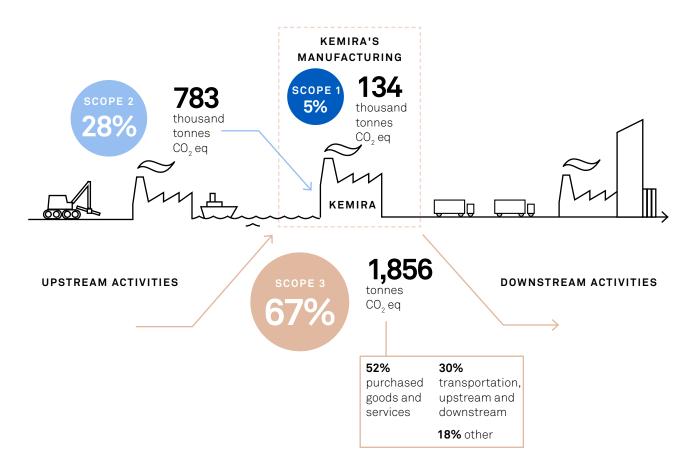
Our Energy Efficiency Index enables us to monitor the trend of energy efficiency improvement on a consolidated basis.

### **KEMIRA ENERGY EFFICIENCY** INDEX



The Kemira Energy Efficiency Index measures the ratio of energy use to production volumes normalized to a 2012 benchmark for our 14 large manufacturing sites covering approximately 90% of energy consumption (91.1% in 2019). The index is not affected by changes in production volumes but may be affected by the product mix.

# Greenhouse gas emissions



### Scope 1 (direct), market-based

Emissions from fuels to produce energy in sites owned and controlled by Kemira

### Scope 2 (indirect), market-based

Emissions from purchased electricity, heat and steam consumed at Kemira's manufacturing sites

# Scope 3 (indirect)

Emissions from purchased raw materials, fuel and energy related activities, upstream transportation, downstream transportation and distribution and other downstream activities

**EMISSIONS BY GEOGRAPHY IN 2019** 

Scope 1 and Scope 2, market-based

Finland **38%** USA **36%** Rest of world **26%** 

Kemira's GHG emissions are primarily carbon dioxide (CO<sub>2</sub>), and negligible emissions of methane (CH<sub>2</sub>) and nitrous oxide (N<sub>2</sub>O). Kemira estimates GHG emissions using factors in terms of CO<sub>2</sub> equivalent (CO<sub>2</sub>eq.) and does not specifically estimate and report mass emissions of CH, and N,O since CO<sub>2</sub> comprises over 99% of CO<sub>2</sub>eq. emissions.

The majority of the electricity used at our Kemira manufacturing sites is obtained from external providers. Many Kemira facilities consume steam and heat generated on-site.

# Direct (Scope 1) GHG emissions from Kemira's manufacturing sites are from the following sources:

- Generation of electricity, heating, cooling and steam: these Scope 1 emissions result from the combustion of fuels in stationary sources, such as boilers and internal combustion engines. Kemira's manufacturing sites generally use low-carbon intensive fuels such as natural gas, propane, and diesel fuel
- Emissions from physical or chemical processing of raw materials and chemicals such as sodium and calcium carbonate

Indirect (Scope 2) GHG emissions include, but are not limited to, the CO<sub>2</sub> emissions from the generation of purchased or acquired electricity, heating, cooling, and steam consumed by an organization. Furthermore, many sites purchase or acquire electricity, heating, cooling, and steam resources from either the local municipal authority or from a separate manufacturing facility located within the same industrial complex.

Other indirect (Scope 3) GHG emissions are a consequence of Kemira's business activities, but occur from sources not owned or controlled by our company.

# Development of GHG emissions in relation to production volumes

**Scope 1 emissions** in 2019 were less than 2018 emissions. corresponding to a decrease in production compared to 2018. Two significant natural gas consuming sites also experienced prolonged shutdowns which decreased the amount of natural gas used as a fuel at the sites.

Scope 2 emissions were consistent with 2018 levels despite the decrease in production. In addition, the fuel mix for our centralized energy supplier in Finland consumed slightly more non-renewable fuels compared to 2018.

**Scope 3 emissions** in 2019 were consistent with previous year's emissions within the level of accuracy associated with the calculation methodology. Purchased goods and services (including capital goods) cover 51% (61%), and transportation and distribution emissions (upstream and downstream) 30% (18%) of our Scope 3 emissions. Waste generated and transported by our plants remained 5% (5%) of overall Scope 3 emissions.

The overall GHG emissions intensity for 2019 is within the range of historical levels.



GRI 305-1: Direct (Scope 1) GHG emissions

GRI 305-2: Energy indirect (Scope 2) GHG emissions

GRI 305-3: Other indirect (Scope 3) GHG emissions

GRI 305-5: Deduction of GHG emissions

GRI 305-4: GHG emissions intensity

GREENHOUSE GAS (GHG) EMISSIONS CO.,eq 1,000 tonnes	GRI disclosure	2019	2018	2017	2016	2015
TOTAL GHG EMISSIONS <sup>1</sup>		2,773	2,672*	2,872	2,684	2,665
Direct (Scope 1) GHG emissions <sup>2a</sup>	305-1	134	152*	153	162	169
Change		-18	-1*	-9	-7	25
Biogenic Direct (Scope 1) GHG emissions <sup>2b</sup>	305-1c	0	0	0	n.a.	n.a.
Change		0	0	n.a.	n.a.	n.a.
Energy indirect (Scope 2) emissions: market-based <sup>3a</sup>	305-2	783	778	799	792	786
Change		5	-21	8	6	-6
Energy indirect (Scope 2) emissions: location-based <sup>3b</sup>		897	1,044	1,048	999	994
Change		-147	-4	49	5	n.a.
Other indirect emissions: Scope 3 <sup>4a</sup>	305-3a	1,856	1,697	1,920	1,730	1,710
Change		159	-233	230	20	129
Other indirect emissions: Scope 3 Biogenic emissions <sup>4b</sup>	305-3c	0	0	0	n.a.	n.a.
Change		0	0	n.a.	n.a.	n.a.
CHANGE IN TOTAL GHG EMISSIONS	305-5	101	-245*	188*	19	149
Production volume, 1,000 tonnes		5,128	5,312*	5,164	5,028	4,845
GHG EMISSIONS INTENSITY, $tCO_2$ per tonnes of production <sup>5</sup>	305-4	0.54	0.50*	0.56*	0.53	0.55

<sup>\*</sup> Minor updates to data were provided by sites during 2019 data collection.

2a. GHG emissions from sources that are owned or controlled by Kemira (Scope 1 of the WRI/WBCSD GHG Protocol). GHG emissions are calculated as CO,eq which includes CO2, CH4, N2O, HFCs, PFCs, SF6, NF3.

2b. GRI Standard specifies reporting of biogenic emissions reported starting in 2017.

3a. GHG emissions from the generation of purchased electricity, steam and heat that is consumed by Kemira (revised Scope 2 of the WRI/WBCSD GHG Protocol). Market-based emissions are used for target setting and following progress. Location-based emissions are also shown, but these are not used for other indicators. GHG emissions are calculated as

CO<sub>2</sub>eq which includes CO<sub>2</sub>, CH<sub>4</sub>, N<sub>2</sub>O, HFCs, PFCs, SF<sub>8</sub>, NF<sub>3</sub>. The sources for the emission factors used are the IEA, the UK government's Department for Environment, Food and Rural Affairs (DEFRA), Motiva Ltd. and energy utility companies.

3b. Location based Scope 2 emissions were calculated first time in 2015.

4a. GHG emissions from Kemira's value chain (Scope 3 of WRI/ WBCSD GHG Protocol). Minor changes have occurred for previous years as more updated data was available for this report.

4b. GRI Standard has introduced requirement of disclosure of biogenic emissions, which Kemira started to report in 2017.

5. Kemira has calculated the GHG emissions intensity as the ratio of total GHG emissions per production volume. Direct GHG emissions (Scope 1), indirect GHG emissions from energy consumption (Scope 2 market-based) and other indirect GHG emissions (Scope 3) are included.

<sup>1.</sup> Scope1 + Scope 2 market-based + Scope 3.

# GRI-305-3: Other indirect (Scope 3) **GHG** emissions

During 2019 we reviewed the assumptions for categories 1. Purchased goods and services; 4. Upstream transportation and distribution; and 9. Downstream transportation and distribution. Based on more accurate data on transportation and distribution, we were able to calculate the category 4 and 9 emissions more accurately.

OTHER INDIRECT (SCOPE 3) GHG EMISSIONS BY CATEGORIES						
CO <sub>2</sub> eq 1,000 tonnes	GRI disclosure	2019	2018	2017	2016	2015
TOTAL SCOPE 3 EMISSIONS	305-3d	1,856	1,697	1,920	1,730	1,710
1. Purchased goods and services		950	1,040	960	840	870
2. Capital goods*		*	*	*	*	*
3. Fuel and energy related activities		230	240	240	230	230
4. Upstream transportation and distribution		290	110***	240	220	200
5. Waste generated in operations		90	80	80	40	20
6. Business travel		5**	5**	5	10	10
7. Employee commuting		10**	10**	10	10	10
8. Upstream leased assets (leased offices)		10**	10**	10	10	10
9. Downstream transportation and distribution		270	200***	370	370	350
11. Use of sold products		*	*	0	0	0
12. End-of-life treatment of sold products		1	2	2	2	0

<sup>\*</sup> Emissions of Category 2: Capital goods are included in Category 1: Purchased goods and services.

Scope 3 was restated in 2015 due to more accurate information available. As a more detailed calculation was carried out. Category 12 End-of-life treatment of sold products changed significantly. Category 12 covers all products sold. If a product is not known to have a new lifecycle, it is classified as waste. Category 11 emissions were estimated to be zero or close to zero, as Kemira does not sell combustible fuels, products that form GHG emissions during use, or products that contain GHG.

The calculation is based on the GHG Protocol Corporate Value Chain (Scope 3) Accounting and Reporting Standard and a supporting guidance document Guidance for Accounting & Reporting Corporate GHG Emissions in the Chemical Sector Value Chain. Scope 3 emissions have been calculated since 2012. GHG emission recalculated as CO<sub>2</sub>eq. The sources for the emission factors used include the guidance document for the Chemical Sector, the DEFRA, the IEA, Ecoinvent, CEFIC and ECTA. Data covers all of Kemira's production sites according to Kemira consolidation rules. The margin of error for Scope 3 calculations is +/- 20%.

NOTE: Category 10 Processing of sold products is not calculated because it cannot be reasonably tracked; Category 13 Downstream leased assets is not relevant to chemical sector; Category 14 Franchises is not relevant to chemical sector; Category 15 Investments: No information available."

<sup>\*\*</sup> Categories 6-8 were not after 2017 because contributing less than 2% in earlier years. 2018 and 2019 were assumed to be at the same level as historical years.

<sup>\*\*\*</sup> The average distance for water transportation decreased in 2018 compared to 2017.

# GRI 305-6: Emissions of ozone-depleting substances (ODS)

# GRI 305-7: Nitrogen oxides (NOx), sulfur oxides (SOx), and other significant air emissions

Nitrogen oxides (NOx) emissions increased approximately by 5.5% compared to 2018 and is now at the same level as 2015. Sulfur oxides (SOx) emissions has decreased by approximately 10% from 2018 and approximately 24% since 2015.

Kemira almost exclusively uses zero and low carbon fuels such as hydrogen and natural gas for its on-site steam and heat requirements. Mobile equipment such as fork trucks also use low carbon fuels such as natural gas, propane, and low-sulfur diesel fuel. Therefore, Kemira's releases into air are not a material topic for GRI reporting purposes. However, Kemira continues to report these releases in accordance with GRI requirements and reviews materiality on a periodic basis.

RELEASES INTO AIR						
tonnes	GRI disclosure	2019	2018	2017	2016	2015
Nitrogen oxides (NOx) <sup>1</sup>	305-7a.i	192	182	161	160	194
Sulfur oxides (SOx) <sup>2</sup>	305-7a.ii	63	70	77	84	83
Volatile organic compounds (VOC) <sup>3</sup>	305-7a.iv	569	649	574	783	430
Other air emissions <sup>4,5</sup>	305-7a.vii	447	349	99	173	55
Particulates (PM)	305-7a.vi	18	16	18	11	14
Persistent organic pollutants (POP) <sup>5</sup>	305-7a.iii	n.a.	n.a.	n.a.	n.a.	n.a.
Hazardous air pollutants (HAP) <sup>5</sup>	305-7a.v	9	10	13	n.a.	n.a.
Ozone-depleting substances <sup>6</sup>	305-6	n.a.	n.a.	0	0	0

- 1. NOx consist of nitric oxide and nitrogen dioxide.
- 2. SOx consists of sulfur dioxide and sulfur trioxide.
- 3. VOC is a sum of volatile organic compounds as defined in EU Directive 1999/13/EC.
- 4. Other standard categories of air emissions identified in relevant regulations. New reporting requirement starting in 2017. Includes former reporting requirement of Volatile Inorganic Compounds (VIC), which was reported as the sum of ammonia, hydrogen chloride and six other simple inorganic compounds through 2016. GRI Standard no longer requires reporting of VIC.
- 5 New reporting requirement starting in 2017. Changes in emissions between Other air emissions, and HAP may be attributable to how emissions are regulated in a specific location. For example, acrylonitrile is specifically regulated under the term "HAP" in the United States and would be reported as such. However, acrylonitrile may not be regulated using the term HAP in another country and may be reported under Other air emissions.
- 6 A value of zero represents emissions equal to or greater than 0 and less than 0.5 tonnes. Limited emissions are primarily from one manufacturing site. The manufacturing site eliminated the use of the ozone delpeting substance. Therefore, after 2016, emissions are reported as N/A. The emissions from the substitute material are reported under Other air emissions.

**WATER** 

**kemira** 

GRI 303-3: Water withdrawal

GRI 303-4: Water discharge

GRI 303-5: Water consumption

GRI 306-1: Water discharge quality

### Water management approach

Through our EHSQ Policy, we strive to minimize water consumption and minimize the negative impact of water discharge activities on the quality of receiving water bodies. Kemira's manufacturing processes require water primarily for use as cooling water and process water.

We are continuously evaluating opportunities to decrease water withdrawal, consumption, discharge, and associated impacts through water recycling and reuse, and process redesign and optimization projects in our upgraded and new production line projects. Where possible, water is recycled and/or reused at our sites to reduce water withdrawal, consumption, and discharge.

Wastewater and cooling water discharges at the manufacturing sites are subject to chemical sector regulations and local discharge requirements (permitting and effluent quality), including the profile of the receiving waterbody. Wastewater generated from Kemira's manufacturing processes are primarily treated in third-party wastewater treatment plants prior to discharge to a waterbody. Cooling water does not usually require treatment prior to discharge.

Information presented in this report is based on the GRI 303: Water and Effluents 2018 standard that was adopted

### 2019 Overview of water flows

megaliters

WATER WITHDRAWAL		WATER Discharges		WATER CONSUMPTION
<b>90,572</b> (100,112)	<b> ← ← ← ← ← ← ← ← ← </b>	<b>81,721</b> (91,562) $\widehat{\widehat{\sim}}$	^ ^ ^	<b>8,851</b> (8,550)
Surface water	65%	Surface water	72%	
Groundwater	3%	Groundwater	0%	
Seawater	19%	Seawater	21%	
Third-party water	13%	Third-party water	7%	
		Treatment not required (mainly cooling water)	92%	
		Purified in own or external wastewater treatment plant	8%	

in Kemira for the 2019 GRI Disclosures. Water withdrawal and discharge in our manufacturing sites is categorized as freshwater (<1,000 mg/L Total Dissolved Solids), except for one site that uses seawater as cooling water and discharges to seawater (>1,000 mg/L Total Dissolved Solids).

In accordance with the guidance provided in GRI 303-5, water consumption consists of the water withdrawn and incorporated into products, evaporated, consumed by humans, or otherwise unusable by others such that it is not released back to surface water, groundwater, seawater, or a third-party. Water storage is not a significant water-related impact at our manufacturing sites and therefore, is not reported in our disclosure.

### Water risk assessment

In 2019, there were no significant fines or non-conformities with regards to environmental laws or regulations or claims from external wastewater treatment plant authorities against Kemira.

In 2019, Kemira updated water risk assessment, using the World Resources Institute's Aqueduct Water Risk Atlas, a global mapping tool to identify water risks. The mapping covered all manufacturing sites. The results indicated that our withdrawals do not significantly affect water sources and basins for the following reasons:

 About 89% of total water withdrawal was used as cooling water and none of Kemira's discharges are known to have, or are likely to have, a significant impact on the water body and associated habitats and users.

- Based on the location of the manufacturing sites, the overall water risk was rated "Low" for 49% of the sites. "Low to Medium" for 35%, "Medium to High" for 6%, "High" for 5% and "Extremely High" for 5% of the sites.
- Based on the location of the manufacturing sites, 58% of sites are located in area of "Low" water stress, 14% in area of "Low to Medium" water stress, 15% in area of "Medium to High" water stress, 5% in area of "High" water stress and 8% in area of "Extremely High" water stress.
- The manufacturing sites located in areas of water stress (areas of "High" or "Extremely High" water stress - that is, areas in which more than 40% of available water is used by industry, household and agriculture) comprise 0.5% of total water withdrawal and 3.6% of total water consumption.

#### Water withdrawal, consumption and discharge trends

The total water withdrawal decreased by approximately 10% from 2018 and by approximately 8% compared to 2015. The total water consumption increased by approximately 4% from 2018 but has decreased by approximately 4% compared to 2015. The water withdrawal intensity (m<sup>3</sup> per tonnes of production) decreased by approximately 6% from 2018 and by approximately 13% compared to 2015.

The total water discharges decreased by approximately 11% from 2018, and by approximately 8% compared to 2015. Chemical Oxygen Demand (COD) discharges increased by approximately 98% from 2018 and the discharge of suspended solids increased by approximately 117%. The increase in COD and suspended solid discharges in 2019 are primarily

related to the biological wastewater treatment plant at one manufacturing site. Therefore, changes in COD and suspended solid discharge at the plant have significant influence in Kemira's total COD and suspended solid discharge. Wastewater discharges by quality (including COD and suspended solids) are not a material topic for Kemira for GRI reporting purposes. However, Kemira continues to report the discharges in accordance with GRI requirements and reviews materiality on a periodic basis.

OVERVIEW OF WATER FLOWS megaliters	GRI disclosure	20	019	2018	2017	2016	2015
			Areas with water				
		All areas	stress	All areas	All areas	All areas	All areas
WATER WITHDRAWAL BY SOURCES, TOTAL	303-3	90,572	433	100,112*	98,166*	102,347	98,212
Surface water		59,173	1	62,393	66,951	68,560	65,494
Groundwater		2,386	146	3,251	3,061	2,728	3,606
Seawater		16,893	n.a.	23,345	20,851	23,888	22,520
Third party-water		12,120	286	11,122	7,303	7,171	6,592
Third party-water by source	Surface water	n.a.	148	n.a.	n.a.	n.a.	n.a.
	Groundwater	n.a.	138	n.a.	n.a.	n.a.	n.a.
	Seawater	n.a.	n.a	n.a	n.a.	n.a.	n.a.
WATER DICHARGES BY DESTINATION, TOTAL	303-4, 306-1	81,721	112	91,562*	91,246*	95,309*	89,012*
Surface water		58,933	n.a	62,949	65,522	66,612	61,736
Groundwater		n.a	n.a	n.a	n.a	n.a.	n.a.
Seawater		17,014	n.a	23,463	21,000	24,057	22,671
Third party-water		5,775	n.a	5,149	4,724	4,641	4,604
Third party-water sent for use to other organizations		4,137	n.a	3,329	3,035	3,108	3,059
Water discharge by treatment	No treatment (mainly cooling water)	75,455	n.a	85,910	86,022	90,188	83,920
	Own treatment	535	n.a	557	585	561	537
WATER CONSUMPTION	303-5	8,851	321	8,550	6,921	7,038	9,200
WATER WITHDRAWAL INTENSITY, m³ per tonnes of production		17.7	1.5	18.8	19.0*	20.4*	20.3*
Production volumes, thousands of tons		5,128	281	5,312*	5,164*	5,028	4,845

 $^{\star}$  Minor updates to data were provided by sites during 2019 data collection.

The calculations have been made according to GRI Standards. The figures presented are based on data collected from Kemira's sites.

The figures presented are based on data collected from Kemira's sites. Reporting is done first time in accordance with the GRI 303: Water and Effluents 2018 standard.

Breakdown of volumes by freshwater (<1,000 mg/L Total Dissolved Solids) and seawater (>1,000 mg/L Total Dissolved Solids) is not provided since one site only uses seawater as cooling water and discharges to seawater.

Produced water as defined in GRI 303 is generated in limited amounts in Kemira's two tall oil plants. The share of produced water is less than 0.05% of total water withdrawal and therefore not included in the table.

Water withdrawal and water discharge reduced significantly from 2018 due to closure of a production plant at one site and annual variation in the need of cooling water.



TOTAL WATER DISCHARGES BY QUALITY						
tonnes	GRI disclosure	2019	2018	2017	2016	2015
Chemical Oxygen Demand (COD) <sup>3</sup>	306-1a.ii	67	34	38	34	16
Biological Oxygen Demand (BOD)	306-1a.ii	1	1	0	0	1
Nitrogen (N)	306-1a.ii	4	3	3	3	2
Phosphorus (P)	306-1a.ii	1	1	1	1	1
Suspended solids <sup>3</sup>	306-1a.ii	10	5	4	1	2
Other (e.g., heavy metals, chlorides) <sup>1</sup>	306-1a.ii	371	326	291	308	9
Total Organic Carbon (TOC) <sup>2</sup>	306-1a.ii	1	1	1	n.a.	n.a.

The calculations have been made according to GRI Standards. Data limited to wastewater discharges from own treatment. In total, 13 sites are required to have own treatment prior to direct discharge to a waterbody. Wastewater generated from Kemira's manufacturing processes are primarily treated in third-party wastewater treatment plants prior to discharge to a waterbody. Kemira reports discharge quality data only from sites required by environmental laws and regulations or other requirements to monitor these parameters. Treatment methods are in accordance with local permits and contract agreements with third-party wastewater treatment plants. The treatment methods vary depending on local conditions and legal requirements.

<sup>1.</sup> In 2016, these releases consisted of chlorides at some sites. The increase in tonnes in the "Other" category is related to primarily to one site experiencing a significant increase in discharge volume compared to 2015 and to the availability of more accurate analytical data.

<sup>2.</sup> First reported in 2017.

<sup>3.</sup> Discharges from one biological wastewater treatment plant constitutes more than 80% of total COD and suspended solids discharges in Kemira. The increase in discharge of COD is due to temporary performance issues and increase in discharge of suspended solids due to change in analysis method at this wastewater treatments plant. The temporary performance issue has been solved.

# **WASTE**

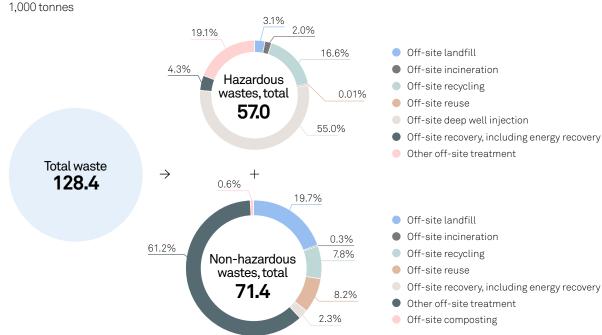
# GRI 306-2: Waste by type and disposal method

Through our EHSQ Policy, Kemira strives to minimize the amount of industrial and municipal waste generated through consistent material flow management processes and improvements to the efficiency of manufacturing processes. Waste in Kemira is disposed, or recovered in compliance with statutory requirements. The waste streams from our manufacturing sites vary by site and harmonization of these waste streams and their definitions has been more challenging than expected. Efforts in 2018–2019 to collect detailed data and assess our manufacturing waste streams will continue in 2020. We aim to define KPIs and long term targets for hazardous waste reduction during 2020.

#### Hazardous waste

10 manufacturing sites generate approximately 90% of the hazardous waste. In 2019, one site alone accounted for 55% of total hazardous waste generated, due to disposal of stormwater potentially impacted by acrylamide. Disposal of stormwater at the site as hazardous waste is in accordance with local legislation and regulations. The significant share of certain sites to generate hazardous waste has been recognized and analysis for different solutions to decrease the generation of hazardous waste is under process. The total amount of hazardous waste increased by approximately 6% from 2018 primarily due to increase in generation of stormwater at the site described above and also due to increased production and improved data collection and reporting.

# TOTAL WASTE BY TYPE AND DISPOSAL METHOD



#### Non-hazardous waste

Total amount of non-hazardous waste increased by approximately 4% from 2018. This is primarily due to opening of a new manufacturing site in 2019 that accounted for 27% of total non-hazardous waste, as well as improved data collection and reporting.



# GRI 306-2: Waste by type and disposal method

WASTE 1,000 tonnes	GRI disclosure	2019	2018	2017	2016	2015
HAZARDOUS WASTES, total	306-2a	57.0	53.9*	50.8*	52.0*	77.8*
Off-site landfill		1.8	1.8	1.9	1.1	1.3
Off-site incineration		1.1	1.3	6.2*	5.0	2.6
Off-site recycling		9.5	10.2	6.3	7.4	9.6
Off-site reuse		0.0	0.0			
Off-site deep well injection <sup>1,2</sup>		31.3	29.9	26.3	28.2	54.8
Off-site recovery, including energy recovery		2.4	2.5	0.0	0.0	0.0
Other off-site treatment <sup>2</sup>		10.9	8.2*	9.9*	10.3*	9.5*
On-site incineration		n.a.	n.a.	0.2*	0.1*	0.0
On-site landfill		n.a.	n.a.	n.a.	n.a.	n.a.
NON-HAZARDOUS WASTES, total	306-2b	71.4	68.8*	60.0*	28.2*	32.5*
Off-site landfill		14.1	13.6	19.2	12.5*	10.6*
Off-site incineration		0.2	0.4	1.3*	1.6	1.3
Off-site recycling		5.6	5.9*	4.5	7.4*	14.9
Off-site reuse		5.9	6.7			
Off-site recovery, including energy recovery		1.6	1.1	0.0	n.a.	n.a.
Other off-site treatment		43.7	40.6*	34.4*	6.6*	5.4*
Off-site composting <sup>1</sup>		0.4	0.5	0.5	n.a.	n.a.
On-site incineration		n.a.	n.a.	n.a.	n.a.	n.a.
On-site landfill		n.a.	n.a.	n.a.	0.1*	0.3*
TOTAL WASTE DISPOSAL		128.4	122.8*	110.8*	80.2*	110.3*

<sup>\*</sup> Minor updates to data were provided by sites during 2019 data collection

In 2019, one site alone accounted for 55% of total hazardous waste generated, due to disposal of stormwater potentially impacted by acrylamide (deep well injection). Disposal of stormwater at the site as hazardous waste is in accordance with local legislation and regulations.

Waste disposal method was determined based on information provided by the waste disposal contractor.

Total weight of non-hazardous waste increased significantly from 2017 onwards due to acquisitions.

<sup>1.</sup> New disposal method reported starting in 2017.

<sup>2.</sup> Kemira has updated these values to account for the impact of the new disposal methods introduced in 2017. For example,

<sup>&</sup>quot;Other off-site treatment" included deep well injection during 2013–2016. The values in this table will differ from previous reports.

OUR PERFORMANCE INDICATORS I ENVIRONMENTAL

#### GRI 306-3: Significant spills

Kemira follows an Incident Reporting Standard that defines incident types and establishes the minimum requirements for incident reporting and classification of all EHSQ incidents. This standard applies to all Kemira employees, contractors, temporary and supplemental staff at all Kemira and/or customer locations.

Kemira's definition of a significant spill includes spill resulting in one or more of the following:

- A spill or leak of more than 1,000 kg of a hazardous chemical (those chemicals identified as hazardous or dangerous by federal, provincial, state or local regulations or by internationally recognized protocols such as, United Nations dangerous goods classification or assigned a reportable quantity if spilled) outside of secondary containment or to the atmosphere
- Requirement for immediate reporting of an environmental release/spill to a regulatory agency
- Substantial negative publicity

In 2019 there were 10 significant spills compared to nine in 2018.

- Transportation incidents (including related loading and unloading activities) accounted for three significant spills. Two occurred at our manufacturing site and one at customer's site. The total volume of the transportation incidents was approximately 40 tonnes.
- Manufacturing incidents accounted for seven significant spills. All occurred at our manufacturing sites. The total volume of the significant spills at manufacturing plants were approximately 40 tonnes.

The significant spills did not have a permanent or significant impact on the environment beyond the remediated material. These spills were not reported in Kemira's Financial Statements.

#### GRI 306-4: Transport of hazardous waste

In 2019, approximately 57,000 tonnes of hazardous waste were transported by, or on behalf of Kemira, to external suppliers not owned by Kemira. Hazardous waste was not imported or treated by Kemira in 2019.

One of our sites in South America does not have a treatment or disposal option within the country for some of its hazardous wastes. Therefore, it must be shipped to the EU for disposal. In 2019, there were 28.3 tonnes of hazardous waste exported from South America to Europe for disposal and 1.3 tonnes of hazardous waste between EU countries. In total, less than 1% of the hazardous waste generated in 2019 (less than 1% in 2018) by Kemira was shipped internationally.

OUR PERFORMANCE INDICATORS I ENVIRONMENTAL

### **ENVIRONMENTAL COMPLIANCE** GRI 307-1: Non-compliance with environmental laws and regulations

Kemira's integrated EHSQ management system includes an Auditing Standard to verify conformance with Kemira policies and standards, ISO/OHSAS standards, and EHSQ legal compliance. Kemira regularly conducts EHSQ compliance audits at manufacturing sites, research and development laboratories, and offices. Audits are performed by Kemira's independent internal auditing team and external consultants. Kemira's robust integrated EHSQ management system requires all sites to report non-compliances to the group's Global EHSQ Team using our incident reporting program (Synergi Life).

The following summarizes the significant fines or noncompliances with environmental laws or regulations at Kemira manufacturing sites in 2019:

- One inorganic coagulant site in the United States received a fine of approximately EUR1,100 following an agency inspection related to process safety management requirements. The non-conformities were corrected as required and the case is considered closed.
- The same inorganic coagulant facility received a fine of approximately EUR18,000 related to a hazardous material spill at the site that occurred in 2017. The facility corrected the non-conformities following the incident as required by the agency. However, the administrative penalty was not issued until 2019.
- No significant non-monetary sanctions were placed against Kemira in 2019.



#### SOCIAL

## INFORMATION ON EMPLOYEES GRI 102-8: Information on employees and other workers

At the end of 2019, Kemira employed 5,062 people (4,915). The employee distribution by region shows that 50% (53%) of Kemira's total workforce were employed in EMEA, and 32% (33%) in the Americas. The number of employees have increased by 147 (183). The increase is mainly due to capacity expansion in manufacturing operation in China. Workers who are legally recognized as self-employed, or individuals other than the ones in Kemira's payroll are not counted on these numbers.

Kemira uses external service providers (contractors) which work at Kemira locations. These services cover, for example maintenance, repair, turnaround, major renovation, or specialty work at a Kemira site. We do not record the number of people but follow the contractor hours as this information is included in the workplace safety indicator TRIF. In 2019, there was approximately 3.1 million hours which equals to about 1,650 FTE (Full Time Equivalents) when assuming 7.5 hours per day and 250 working days per year.

GRI 102-8: Total number of employees

	2019	2018	2017	2016	2015
TOTAL NUMBER OF EMPLOYEES*	5,062	4,915	4,732	4,818	4,685
Females, %	26%	26%	26%	26%	26%
Males, %	74%	74%	74%	74%	74%
White collar, %	59%	60%	62%	61%	62%
Blue collar; %	41%	40%	38%	39%	38%

<sup>\*</sup> At year end

GRI 102-8a: Total number of employees by employment contract (permanent and temporary), by gender

	2019	2018	2017	2016	2015	%,2019	%,2018	%,2017	%,2016	%,2015
TOTAL NUMBER OF EMPLOYEES	5,062	4,915	4,732	4,818	4,685					
Permanent	4,940	4,789	4,615	4,715	4,559	97.6%	97.4 %	97.5%	97.9%	97.3%
Fixed term	122	126	117	103	126	2.4%	2.6 %	2.5%	2.1%	2.7%
FEMALES TOTAL	1,295	1,255	1,223	1,259	1,220					
Permanent	1,237	1,205	1,175	1,227	1,171	95.5%	96.0 %	96.1%	97.5%	96.0%
Fixed term	58	50	48	32	49	4.5%	4.0 %	3.9%	2.5%	4.0%
MALES TOTAL	3,767	3,660	3,509	3,559	3,465					
Permanent	3,703	3,584	3,440	3,488	3,388	98.3%	97.9 %	98.0%	98.0%	97.8%
Fixed term	64	76	69	71	77	1.7%	2.1 %	2.0%	2.0%	2.2%



#### GRI 102-41: Collective bargaining agreements

The percentage of employees covered by collective bargaining agreements by 'significant locations of operation' varies widely between regions. The coverage is the lowest in North America (USA 4%, Canada 16%), which is characteristic of the region, whereas in South America (Brazil, Uruguay) all employees are covered.

In the APAC region, collective bargaining agreements occur in the chemical industry only in a few countries, Indonesia, Vietnam, Korea and Thailand, where almost all employees are covered by collective bargaining agreements. In many European countries, all employees are covered by collective bargaining agreements, especially in Northern Europe (Finland, Sweden) and Southern Europe (Spain, France, Italy). In Central and Eastern Europe, the percentage varies (e.g. UK 33%, Germany 29%, Netherlands 61%), and in some countries there are no collective bargaining agreements.

The definition used for 'significant locations of operation' refers to countries where we have 10 or more employees. In Kemira's case, there are 25 countries with 10 or more employees and which altogether represents 99% of all employees.

GRI 102-8b. Total number of employees by employment contract (permanent and temporary), by region

	2019	2018	%,2019	%, 2018
TOTAL NUMBER OF EMPLOYEES	5,062	4,915		
Americas	1,570	1,559	31.0%	31.7%
APAC	947	777	18.7%	15.8%
EMEA	2,545	2,579	50.3%	52.5%
Total Permanent	4,940	4,789		
Americas	1,570	1,559	31.8%	32.6%
APAC	947	777	19.2%	16.2%
EMEA	2,423	2,453	49.1%	51.2%
Total Temporary	122	126		
Americas	0	0	0.0%	0.0%
APAC	0	0	0.0%	0.0%
EMEA	122	126	100.0%	100.0%

GRI 102-8c. Total number of employees by employment type (full-time and part-time), by gender

	2019	2018	2017	2016	2015*	%,2019	%,2018	%,2017	%,2016	%,2015*
TOTAL EMPLOYEES	5,062	4,915	4,732	4,818	4,559					
Full-time	4,980	4,842	4,660	4,747	4,481	98.4%	98.5 %	98.5%	98.5%	98.3%
Part-time	82	73	72	71	78	1.6%	1.5 %	1.5%	1.5%	1.7%
TOTAL FEMALES	1,295	1,255	1,223	1,259	1,171					
Full-time	1,240	1,202	1,168	1,208	1,106	95.8%	95.8 %	95.5%	95.9%	94.4%
Part-time	55	53	55	51	65	4.2%	4.2 %	4.5%	4.1%	5.6%
TOTAL MALES	3,767	3,660	3,509	3,559	3,388					
Full-time	3,740	3,640	3,492	3,539	3,375	99.3%	99.5 %	99.5%	99.4%	99.6%
Part-time	27	20	17	20	13	0.7%	0.5 %	0.5%	0.6%	0.4%

<sup>\* 2014-2015</sup> numbers for permanent employees

OUR PERFORMANCE INDICATORS I SOCIAL

## EMPLOYMENT GRI 401-1: New employee hires and employee turnover

The total number of new hires in 2019 was 751 (804), out of which 28% (28%) were female and 72% (72%) male. The new hires include summer trainee and other temporary positions. Kemira's new hiring reflects changes in diversity from the previous year. The total turnover rate was 9.7% in 2019 compared to 10.1% in 2018. The total turnover is based on permanent workforce.

The turnover rate in APAC region was 6.7% (9.3%), which was the lowest of the regions. The highest turnover rate was in the Americas 11.0% (12.3%) and the EMEA region had a turnover of 10.0% (9.0%). The turnover rate was highest at the age group <30 years 14.6% (16.2%), the rate showing a slight decrease from 2018. The turnover rate of male 9.7% (9.5%) was for the first time higher than turnover rate of female 9.5% (11.8%), which was the lowest in five years period.

GRI 401-1 a. Total number and rate of new employee hires during the reporting period, by age group, gender and region

		Numbe	r of new hir	es			% of	total new h	ires	
	2019	2018	2017	2016	2015	%,2019	%,2018	%, 2017	%,2016	%,2015
TOTAL NEW HIRES	751	804	597	695	673					100.0%
NEW HIRES BY AGE GROUP										
<30	289	319	286	284	293	38%	40 %	48%	41%	44%
30-50	396	420	260	358	312	53%	52 %	44%	52%	46%
>50	66	65	51	53	68	9%	8 %	9%	8%	10%
NEW HIRES BY GENDER	751									
Females	208	222	188	218	208	28%	28 %	31%	31%	31%
Males	543	582	409	477	465	72%	72 %	69%	69%	69%
NEW HIRES BY REGION	751									
APAC	233	203	79	173	60	31%	25 %	13%	25%	9%
EMEA	335	365	352	364	373	45%	45 %	59%	52%	55%
Americas	183	236	166	158	240	24%	29 %	28%	23%	36%

#### GRI 401-1 b. Total number and rate of employee turnover during the reporting period, by age group, gender and region

		T	urnover				٦	Turnover, %		
	2019	2018	2017	2016	2015	%, 2019	%,2018	%,2017	%, 2016	%,2015
TOTAL TURNOVER	489	497	570	441	490	9.7%	10.1 %	12.0%	9.2%	10.5%
TURNOVER BY AGE GROUP										
<30	83	96	109	72	78	14.6%	16.2 %	19.3%	12.4%	13.6%
30-50	253	253	258	228	263	8.5%	8.9 %	9.9%	8.2%	9.8%
>50	153	148	203	141	149	10.2%	10.0 %	13.0%	9.6%	10.4%
TURNOVER BY GENDER	489									
Female	123	148	193	136	144	9.5%	11.8 %	15.8%	10.8%	11.8%
Male	366	349	377	305	346	9.7%	9.5 %	10.7%	8.6%	10.0%
TURNOVER BY REGION	489									
APAC	63	72	83	53	56	6.7%	9.3 %	12.8%	8.1%	10.4%
EMEA	254	233	282	214	225	10.0%	9.0 %	11.0%	8.2%	8.8%
Americas	172	192	205	174	209	11.0%	12.3 %	13.5%	11.2%	13.2%

### LABOR/MANAGEMENT RELATIONS GRI 401-2: Benefits provided to full-time employees that are not provided to temporary or part-time employees

The benefit programs at Kemira differ depending on regional and country specific practices, and the programs have been stable across recent years without major changes to the practices. In most countries, the same benefits are offered to full-time and part-time employees, and for temporary employees hired directly by Kemira, if the temporary contract exceeds a certain length.

Benefit practices are country specific and typically do not vary between locations and operations. Some exceptions apply - for example. some countries offer additional insurance and/or retirement benefits for permanent fulltime employees. In North America, the eligibility for benefits is dependent on hours worked, in the USA employees are eligible if they work a minimum of 20 hours per week.

#### GRI 402-1: Minimum notice periods regarding operational changes

As stated in our Code of Conduct, all sites are obliged to follow local legislation, regulations and other agreements regarding labor practices, including notice periods. Minimum notice periods are defined in laws or in collective agreements, and are followed in each country accordingly. The time period for the consultation process relating to operational changes varies by country and region, starting from 14 days for smaller changes to up to six months in some countries and for major changes, varying between one to two months in most countries.

#### OCCUPATIONAL HEALTH AND SAFETY GRI 403-2: Types of injury and rates of injury, occupational diseases, lost days, and absenteeism, and number of work-related fatalities

Our health and safety performance in 2019 improved substantially compared to 2018. Kemira reports the occupational safety performance indicator as Total Recordable Injuries (TRI) which includes permanent injuries and fatalities, lost time incidents, restricted work cases and medical treatment cases covering Kemira employees and contractors working at Kemira sites. TRI Frequency (TRIF) is measured as Total Recordable Injuries per million working hours.

Total number of TRIs in 2019 was 30 (44) and TRIF was 2.1 (3.5). The ratio of contractors' TRIs to total number of TRIs remained consistent with the 2018 level. Long-term trend was very positive and we continue to strive toward our 2020 goal of TRIF 2.0.

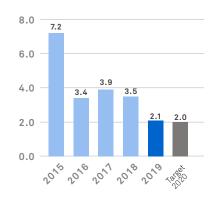
No fatalities have been associated with Kemira employees since 2005. In 2019, we had no permanent injuries and the overall injury severity calculated as a ratio of number of LTIs and number of all TRIs decreased from 2018. Additionally, the total number of LTIs decreased from 25 (2018) to 15 (2019). The noticeable decline in incident severity is responses to ongoing management commitment, progressive safety communication and an overall improvement in safety culture. Unfortunately, we had one significant process incident. Five employees were exposed to chemicals, with one having to stay in the hospital for eight days. The remaining four employees

were examined and released without medical treatment. No permanent injuries resulted from this incident, Kemira received a penalty of approximately EUR 4,000 because of this incident.

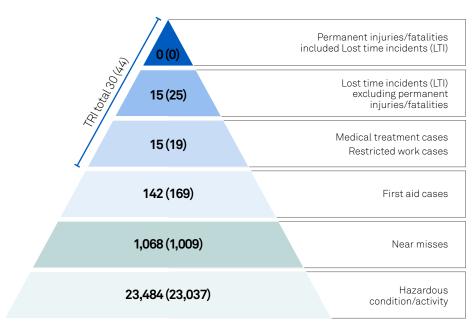
To improve our health and safety culture, the Behavior Based Safety (BBS) Program has been one of our top priorities since 2016. In 2019, we continued to implement the BBS program. Across industry, behavioral human factors are involved in more than 90% of incidents. Our BBS program now covers all of Kemira manufacturing sites. Improved communication,

quality of observations and positive feedback had a renewed emphasis at established BBS sites. 95% of NA manufacturing sites completed a refreshment program in 2019. The BBS program continues to generated numerous field observations of behaviors (both positive and negative) that are being used to prevent hazardous conditions and potential injuries. The Kemira safety culture has matured to a point that we now need to lean on proactive methods and leading indicators to push our performance. Our safety development now needs a strong focus on behavior-based safety, and people's hearts and minds to successfully work.

### OUR SAFETY PERFORMANCE (TRIF)



#### PERSONAL INJURIES PYRAMID 2019 (2018)



OUR PERFORMANCE INDICATORS I SOCIAL

We have continued to improve our internal communication of health and safety incidents, reviews and proactive campaigns during 2019.

During the 2018 Safety Campaign - "Stop. Think. Act." we focused on overall employee and contractor safety mindset and culture. In 2019, we completed a new "Life Saving Rules" campaign. This campaign differed from the previous, not on its intent but on its focus. The "Life Saving Rules" campaign focused on six high-hazard (non standard) work topics that put employees at the greatest risk of serious injury or death. Based on the international best practices in the oil and gas industry the "Life Saving Rules" campaign focused on life-critical work activities such as confined space, working at height, work authorization, energy isolation, line of fire and hot work. These campaign topics were translated into 18 languages and were promoted with posters, online advertisements, internal articles, weekly EHSQ Bulletins and Monthly Regional EHSQ communication calls. Also Life Saving Rules survey was conducted. Survey focused on communication and implementation of rules and directed to the Manufacturing and Sales groups in Kemira.

Hazardous Conditions/Activities reporting is a leading safety indicator reflecting environmental or behavior related hazards at the workplace. The number of reported Hazardous Conditions/Activities was 23,484 in 2019 which equals to 4.6 per Kemira employee. In addition of these 10.232 BBS observations were reported. This type of proactive identification of Hazardous Conditions/Activities not only allows us to avoid incidents but also improves our operations and work methods.

#### **Total Recordable Injuries**

TRI	2019	2018	2017	2016	2015
TOTALTRI	30	44	48	46	77
Kemira employees	21	30	31	32	56
Contractors working at Kemira site	9	14	17	14	21
REGIONALTRI					
APAC	2	4	1	2	1
EMEA	19	22	31	22	53
Americas	9	18	16	22	23
TRI Frequency	2019	2018	2017	2016	2015
GLOBAL TRIF	2.1	3.5	3.9	3.4	7.2
Regional TRIF					
APAC	0.6	2.0	0.6	0.9	0.6
EMEA	3.5	4.1	6.0	3.4	10.6
Americas	2.3	4.6	5.1	4.8	5.7

#### **Lost Time Incidents**

LTI	2019	2018	2017	2016	2015
TOTAL LTI	15	25	27	20	30
Kemira employees	11	15	18	13	21
Contractors working at Kemira site	4	10	9	7	9
REGIONAL LTI					
APAC	1	0	1	2	1
EMEA	11	16	23	12	22
Americas	3	9	3	6	7
LTI Frequency	2019	2018	2017	2016	2015
GLOBAL LTIF	1.1	2.0	2.2	1.5	2.7
REGIONAL LTIF					
APAC	0.3	0	0.6	1.0	0.6
EMEA	2.0	3.0	4.6	2.1	5.4
Americas	0.8	2.3	1.0	0.8	2.0

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OUR PERFORMANCE INDICATORS I SOCIAL

# TRAINING AND EDUCATION GRI 404-1: Average hours of learning per year per employee

Kemira aims to capture all training, education and employee development related hours in the learning management system (LMS) continued to advance in achieving this goal. So far, leadership development activities, regional and global competence development and vocational training programs and many local programs are recorded in the LMS. However, some remaining training and development activities are still recorded locally.

Training hours registered in the system for larger countries in 2019 are Finland 9,767 (8,856) hrs, UK 8,751 (6,037) hrs, Sweden 5,990 (5,476) hrs, USA 6,281 (4,919) hrs, Netherlands 2,839 (3,833) hrs, China 43,897 (10,569) hrs and Poland 6,969 (6,186) hrs. The increase in recorded learning hours in China is due to the capacity expansions as well as more focused way to capture local trainings.

The average hours of learning for employees do not differ significantly by gender. Globally registered average hours per employee for blue collar employees are somewhat higher than for white collar employees indicating that trainings at manufacturing sites are also well recorded using our learning management system.

## GRI 404-2: Programs for upgrading employee skills and transition assistance programs

Kemira provides each employee with access to the relevant competence development programs and structured learning

opportunities to support upgrading of employee skills through on-the-job learning programs (including generic and job-specific competence development), buddy/coaching/mentoring programs, and traditional methods like classroom and eLearning.

The scope includes:

- Leadership development (internal and external) programs
- Professional & technical competence development programs
- Statutory or compliance related programs

These programs are available based on the position, skills/competence level and career aspirations. With the exception of leadership development programs and other external cost based programs (pre-approval required), employees can typically enroll and complete the self-paced learning programs available through our LMS (Learning Management System). We had a strong leadership development portfolio offering and consistent participation in 2019.

Examples of other global and regional programs offered during 2019 are listed below:

- Code of Conduct, anti-corruption, human rights and business and other compliance programs delivered mainly through eLearning
- Learning Solutions for Commercial roles as part of professional competence development included Value Selling, Negotiation, Insight, Innovation & Creativity, Adaptability and Strategic Thinking delivered as new co created eLearning and face to face workshops.

- GDPR fundamentals, principles and rights and obligations
- · Renewed information security awareness training
- EHSQ related programs including EHSQ Policy, Code of Behavior, Communicating on chemical hazards, Crisis management,
- Training on Performance and Development Discussions
- Digital competencies developed as part of the Kemira digital hub and basics of robotics process automation program

Kemira also provides transition assistance programs where relevant, with bigger changes to facilitate the continued employability and management of career endings resulting from retirements or termination of employment. These have included:

- Up-skills training for those intending to continue working with Kemira
- Severance pay
- Career planning and out-placement/job placement services

OUR PERFORMANCE INDICATORS | SOCIAL

## GRI 404-3: Percentage of employees receiving regular performance and career development reviews

Our global performance and development discussion (PDD) process covers all permanent employees, both white collar and blue collar, who are not absent for an extended time period because of leave, for example. Temporary employees' inclusion in the PDD process is evaluated case-by-case, depending on the length of the contract.

## GRI 404-3a. Percentage of total employees by gender and by employee category who received a regular performance and career development review during the reporting period

Performance and	Nur	mber of emp	loyees cov	ered by PDI	)		PD	D Coverage	,%	
Development Discussion (PDD)	2019	2018	2017	2016	2015	%, 2019	%, 2018	%, 2017	%,2016	%,2015
TOTAL PERMANENT EMPLOYEES NOT ABSENT*	4,771	4,597	4,626	4,590	4,440					
PDDs BY GENDER										
Employees covered in Global PDD process	4,593	4,093	4,139	4,009	4,147	96%	89%	89%	87%	93%
Women covered in Global PDD process	1,142	1,099	1,119	1,116	1,030	98%	95%	97%	93%	96%
Men covered in Global PDD process	3,464	2,994	3,020	2,893	3,117	96%	87%	87%	85%	93%
PDDs BY EMPLOYEE CATEGORY										
White collars covered in Global PDD process	2,748	2,731	2,778	2,702	2,730	98%	97%	98%	98%	97%
Blue collars covered in Global PDD process	1,845	1,362	1,275	1,307	1,417	94%	76%	71%	72%	

<sup>\*</sup> All permanent employees, who are not absent for an extended time period, because of leave, for example, are covered by global performance and development discussion process.

# DIVERSITY AND EQUAL OPPORTUNITY GRI 405-1: Diversity of governance bodies and employees

During 2019, the share of females in the Board of Directors remained the same (50%). The percentage share of females (26%) in the total number of employees has remained constant over the years 2016–2019. The number of females in executive positions (Directors and above) has remained on the same level as in 2018 (29%).

GRI 405-1 a. Percentage of individuals within the organization's governance bodies in each of the following diversity categories: Gender, age group, other indicators of diversity where relevant

Performance and			Total					%		
Development Discussion (PDD)	2019	2018	2017	2016	2015	%, 2019	%, 2018	%, 2017	%, 2016	%,2015
MANAGEMENT BOARD										
Total	8	8	8	10	10					
Female	1	1	1	2	2	13%	13%	13%	20%	20%
Male	7	7	7	8	8	88%	88%	88%	80%	80%
By age group										
<30	0	0	0	0	0	0%	0%	0%	0%	0%
30-50	1	1	1	2	5	13%	13%	13%	20%	50%
>50	7	7	7	8	5	88%	88%	88%	80%	50%
BOARD OF DIRECTORS										
Total	6	6	6	7	6					
Female	3	3	3	3	2	50%	50%	50%	43%	33%
Male	3	3	3	4	4	50%	50%	50%	57%	67%
By age group										
<30	0	0	0	0	0	0%	0%	0%	0%	0%
30-50	1	1	1	1	0	17%	17%	17%	14%	0%
>50	5	5	5	6	6	83%	83%	83%	86%	100%

a. Percentage of individuals within the organization's governance bodies in each of the following diversity categories:

i. Gender;

ii. Age group: under 30 years old, 30-50 years old, over 50 years old;

iii. Other indicators of diversity where relevant (such as minority or vulnerable groups).

OUR PERFORMANCE INDICATORS | SOCIAL

As stated in our Code of Conduct, we respect the diversity, talent and abilities of others. We at Kemira define 'diversity' as all the unique characteristics that make up each of us: personality, lifestyle, work experience, ethnicity, religion, gender, sexual orientation, age, national origin, ability and other characteristics. We focus our efforts to attract, develop and retain a workforce that is diverse, and to ensure an inclusive work environment that embraces the strength of our differences. We do not discriminate or treat employees or job applicants unfairly in matters that involve recruiting, hiring, training, promoting, compensation or any other term or condition of employment.

GRI 405-1b. Percentage of employees per employee category in each of the following diversity categories: Gender, age group, other indicators of diversity where relevant

		Total						%		
	2019	2018	2017	2016	2015	%, 2019	%,2018	%, 2017	%,2016	%,2015
TOTAL EMPLOYEES	5,062	4,915	4,732	4,818	4,685	100%	100 %	100%	100%	100%
<30	569	594	566	579	575	11%	12 %	12%	12%	12%
30-50	2,989	2,848	2,607	2,772	2,672	59%	58 %	55%	58%	57%
>50	1,504	1,473	1,559	1,467	1,438	30%	30 %	33%	30%	31%
Female in total	1,295	1,255	1,223	1,259	1,220	26%	26 %	26%	26%	26%
<30	171	179	190	179	188	13%	14 %	16%	14%	15%
30-50	858	827	764	823	773	66%	66 %	62%	65%	63%
>50	266	249	269	257	259	21%	20 %	22%	20%	21%
Male in total	3,767	3,660	3,509	3,559	3,465	74%	74 %	74%	74%	74%
<30	398	415	376	400	387	11%	11 %	11%	11%	11%
30-50	2,131	2,021	1,843	1,949	1,899	57%	55 %	53%	55%	55%
>50	1,238	1,224	1,290	1,210	1,179	33%	33 %	37%	34%	34%

b. Percentage of employees per employee category in each of the following diversity categories:

i. Gender;

ii. Age group: under 30 years old, 30-50 years old, over 50 years old;

iii. Other indicators of diversity where relevant (such as minority or vulnerable groups).

OUR PERFORMANCE INDICATORS I SOCIAL

## GRI 405-2: Ratio of basic salary and remuneration of women to men

Kemira operates a global job structure that is applied to all white-collar employees. The job structure describes job families and the respective job roles with required qualifications and main responsibilities. The job structure links to job grades, which define the salary range and the incentive opportunity for a specific job role. The job grades and salary data information allow Kemira to evaluate, analyze and implement equal remuneration. Factors impacting salary increases includes employee performance and the position of an employee's salary within the salary range, as well as country-specific statutory increases and merit increase opportunities. Incentive payouts are based on measured achievement for pre-defined targets on the company, unit and individual levels.

## NON-DISCRIMINATION GRI 406-1: Incidents of discrimination and corrective actions taken

During 2019, 17 incidents were reported to the Ethics & Compliance function alleging potential violations to the Code of Conduct. All cases were investigated, 10 of the cases were closed with merit and remediated during 2019. Only 1 alleged incident was regarding a potential discrimination and it was closed without merit.

## Disclosure 405-2a. Ratio of the basic salary and remuneration of women to men for each employee category, by significant locations of operation.

		•		
Country	Women to men ratio 2019	Women to men ratio 2018	Women to men ratio 2017	White Collar Headcount 2019
Austria	89%	87%	95 %	48
Brazil	92%	85%	79 %	132
Canada	90%	88%	88 %	128
China	89%	93%	93 %	290
Finland	90%	92%	91 %	584
Germany	97%	96%	97 %	85
Italy	93%	90%	90 %	67
Netherlands	91%	89%	93 %	82
Poland	97%	97%	92 %	330
Spain	85%	84%	83 %	54
Sweden	99%	97%	96 %	136
United Kingdom	92%	92%	93 %	90
United States	92%	92%	89 %	600
Total for largest countries	92%	92%	90 %	2,626

## FREEDOM OF ASSOCIATION AND COLLECTIVE BARGAINING

# GRI 407-1: Operations and suppliers in which the right to freedom of association and collective bargaining may be at risk

Kemira respects the freedom of association and collective bargaining as stated in our Code of Conduct, and through our signatory of the United Nations Global Compact.

We expect our suppliers to respect these same principles and commit to the Kemira Code of Conduct for Business Partners (CoC-BP). All of our Suppliers (engaged with a SAP Purchased Order) receive a written reference to CoC-BP as part of the Kemira general terms of purchase on the back of the Purchase Order.

To increase Kemira employees' awareness of their rights regarding freedom of association and collective bargaining, we provide regular training on our Code of Conduct.

In 2019, Kemira did not identify any violations of freedom of association or collective bargaining in our own operations, and no evidence has been found to indicate that suppliers would be restricting their employees' opportunities to exercise freedom of association and collective bargaining based on sustainability assessments of our key suppliers, representing approximately 39% of our total spend since 2014.

For additional information, see the Integrity section for details of our Code of Conduct training and Ethics and Compliance hotline. Details of the numbers of employees covered by collective bargaining agreements are given under GRI 102-41.

#### HUMAN RIGHTS ASSESSMENT GRI 412-1: Operations that have been subject to human rights reviews or impact assessments

The Human Rights Impact Assessment was conducted in 2014 to identify any risks of a human rights impact throughout our operations and value chain, and any potential gaps in our management approach to human rights as evaluated against the Operational Principles of the United Nations Guiding Principles of Business and Human Rights. The findings indicated a potential risk impact arising from our business with hazardous chemicals, upstream and downstream business relationships, and emerging market expansion. The Human Rights issues most relevant to Kemira relate to employment practices and the health and safety aspects of our products, workplace and operations.

During 2019, we have continued to integrate human rights aspects into our management system. The focus has been on increasing overall awareness and due diligence on human rights throughout the organization. All employees are provided regular and compulsory training on the Code of Conduct, including an awareness of human rights. The group of employees (white collar) who are responsible for ensuring that human rights are respected in our business relationships and in our own operations were provided the basic training on human rights in 2015 and since then all new hires must participate in this training as part of their induction program.

#### Key activities in 2019

• Continued the global 90-day onboarding program for new hires (white collars) that automatically assigns online

- courses on Code of Conduct and Human Rights and Business. By the end of 2019, 64% of white collar new hires have completed the basic training on Human rights and Business as part of their onboarding program.
- All relevant sales team members are trained on third party due diligence for potential new business partners and a new process is introduced to further develop our third-party risk management.
- Workplace safety we further developed our safety culture through the Behavior Based Safety Culture program, target setting, training and communications measure. For more information, see indicator GRI 403-2 for workplace safety.
- Product safety product lifecycle management. For more information, see indicator GRI 416-1 for product stewardship.
- Supplier audits For more information, see Chapter 2 supplier assessment and audits.

#### **PUBLIC POLICY**

#### GRI 415-1: Political contributions

The Kemira Code of Conduct, Kemira Group Sponsorship and Donation policy and the Kemira Group Gifts, Entertainment and Anti-bribery Policy, prohibit any financial support to politicians, political parties or political organizations. No financial or any in-kind political contributions paid by Kemira have come to Kemira's attention during 2019.

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#### **CUSTOMER HEALTH AND SAFETY** GRI 416-1: Assessment of the health and safety impact of product and service categories

According to Kemira's product stewardship policy, we are acting:

- to comply with all applicable chemical regulatory requirements in the countries where we either manufacture and/or sell chemicals covering raw materials, intermediates, processing aids and products
- to make hazard assessments covering regulatory compliance, human health, and safety, as well as environmental protection aspects, as part of the Product Lifecycle Management processes throughout products' lifecycle from development to termination
- to maintain data related to chemical products and substances including raw materials is managed in ERP and is linked to Product Lifecycle Management tool/ process
- · to proactively identify and manage chemical risks and concerns to build management action plans for the identified unacceptable risks to human health, safety or environment; covering all substances from raw materials to products
- to share information with our stakeholders about the health and safety aspects of products and to ensure that our customers can safely use our products

Kemira complies with all laws and regulations relating to chemicals and trade. Kemira does not sell any banned

products. We continuously screen substances that are covered by any regulatory restrictions, or subject to substitution requirements imposed by non-regulatory stakeholders. We proactively work to mitigate health, safety, environmental and image-related risks (GRI 102-2: Activities, brands, products, and services).

We regularly review substances with threat-for-use restrictions or authorization at different phases of regulatory processes in all jurisdictions where Kemira operates. We have some substances listed in the EU REACH regulation list for Substances of Very High Concern (SVHC). At the end of 2019, 95% (20 out of 21) of the identified 21 SHVC substances had a management plan approved by the Operational Excellence board.

#### GRI 416-2: Incidents of non-compliance concerning the health and safety impact of products and services

We are not aware of any fine, penalty or warning for noncompliance with regulations and voluntary codes regarding our products or services in 2019.

#### MARKETING AND LABELING GRI 417-1: Requirements for product and service information and labeling

Kemira's product portfolio consists of seven major product lines and approximately 1,650 different products. All of these products are duly documented and labeled according to legal requirements, including the identification of their hazardous components and information on their safe use. Kemira provides Safety Data Sheets (SDS) for all products, independent of the product safety classification, even if in most jurisdictions Safety Data Sheets are mandatory only for hazardous products. Our IT system for Product Lifecycle Management enables us to prepare SDSs and labels in alignment with the latest regulatory data requirements and in the official languages of the countries where our products are manufactured, stored or sold. In EU member states, the information requirements are stated under REACH regulations with regard to substance properties, exposure, use and risk management measures, and the chemical safety assessment. Registered uses will also be communicated via the updated extended SDSs for downstream users. In addition to the information provided on product labels and Safety Data Sheets, more detailed information about products and their raw material ingredients can be provided on request.

In 2019, the Kemira Product Stewardship & Regulatory Affairs team responded to 7,799 (6,863 in 2018) requests concerning product safety and/or regulatory. The response time for those requests is one of our internal key performance indicators (KPIs).

OUR PERFORMANCE INDICATORS I SOCIAL



### GRI 417-2: Incidents of non-compliance concerning product and service information and labeling

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Our customer complaints management process handles complaints by recording the complaint, investigation, root cause and corrective action determination and implementation and communication with the customer. During the process complaints are classified with a complaint reason from a predefined list. The process and system in use are able to exclude those complaints that Kemira has met the agreed requirements with the customer. All complaints are actively monitored, evaluated and corrected as required by the quality management system in use at Kemira.

Non-compliance related to product and service information usually makes reference to insufficient information on the label.

During 2019, a total of 63 customer complaints were recorded relating to labeling, of which 41 cases were in the EMEA region, 14 in the Americas, and eight in the APAC region. All cases have been investigated and needed corrective actions have been implemented.

During 2019, no incidents of non-compliance with regulations resulting in any fine, penalty or warning were reported within Kemira's operations.

#### SOCIOECONOMIC COMPLIANCE

#### GRI 419-1: Non-compliance with laws and regulations in the social and economic area

We are not aware of any fine, penalty or warning for noncompliance with laws and/or regulations in 2019.

#### GRI 417-1: Product and service information provided

TOPIC	PRODUCT AND SERVICE INFORMATION PROVIDED BY KEMIRA
The sourcing of components of the product or service	Only if requested by customers
Content, particularly with regard to substances that might produce an environmental or social impact	As required by law, always in Safety Data Sheets (SDS) and on the labels. Additional information about chemicals in our products for voluntary certification/compliance schemes such as eco-labeling is also provided to customers upon request and when applicable
Safe use of the product or service	Safe use of a product or service is communicated in the SDSs and on the labels. Registered uses will be communicated via the extended SDSs. Additional information about the use, dosage and application is provided to customers when applicable
Disposal of the product and environmental/social impacts	When legally required, disposal of a product and environmental/social impact are communicated in the SDSs and on the labels

## Reporting practice

### REPORTING SCOPE AND CONTENT GRI 102-10: Significant changes to the organization and its supply chain

At the end of the year 2019, Kemira had 64 (64 in 2018) manufacturing sites of which 64 were included in the environmental reporting scope, and 64 in the auditing scope of our integrated management system. There were no significant changes in the company structure, size or ownership.

## GRI 102-46: Defining report content and topic boundaries

When defining the relative importance of material topics for reporting purpose we have taken into account our economic, environmental and social impact, stakeholder expectations, our purpose and strategy, and our commitments to the Code of Conduct, United Nations Global Compact, SDGs and Responsible Care program. According to the GRI 101 Foundation standard, the principles for defining the report content were applied when assessing material topics and boundaries.

## The most significant economic, environmental and social impacts

Economic impact: We generate revenue by selling chemical products and solutions for industrial uses in the pulp and paper, oil and gas, mining, and water treatment industries. We have a direct economic impact on suppliers and service providers through the payments we make for raw materials and services, to employees through compensation and benefits, to capital providers through dividends and interest payments, to

the public sector through taxes, and to society through local community projects, sponsorship and donations. Unethical business behavior could impact Kemira's reputation and thus financial position.

**Environmental impact:** We have a positive environmental impact through our products and solutions which enable our customers to improve their water, energy and raw material efficiency. Our main environmental risks relate to carbon emissions from our own manufacturing and in the value chain due to our purchasing activities, upstream and downstream transportation, and to potential incidents through accidental release of chemicals or process safety deficiencies.

**Social impact:** Our main social impact, and related risks, concern safety in the workplace, safe use of our products along the value chain and any possible non-compliance with responsible business practices in our own operations or those of our business partners.

#### Prioritization process of material topics

Identification: Material topics relevant to Kemira have been identified based on their relative magnitude of impact and respective concerns raised by our stakeholders. The most recent materiality assessment was done in 2016–2017.

Representatives of our key stakeholder groups were interviewed to identify their expectations of Kemira, a benchmark study on material disclosure topics was carried out and major sustainability related development trends were analyzed.

**Prioritization:** The identified topics were prioritized with reference to the relative importance to stakeholders, and to

the relevance to Kemira's business and strategy, as well as the significance of specific topics related to the global chemical sector. Based on the prioritization, we have selected 20 GRI disclosure topics out of 33 topics as defined by the GRI (2016) standards. In addition to these GRI topics, we also disclose information and performance data on sustainable products and product stewardship, which is material but not covered by the GRI standards.

**Validation:** Data compilation practices for the identified material topics were reviewed and defined. Group level KPIs and targets are defined for the most material topics which are reported as Corporate sustainability priorities.

**Review:** Group level KPIs and targets for corporate sustainability priorities are approved and annually reviewed by the Management Board and by the Board of Directors.

#### GRI 102-47: List of material topics

The economic, environmental and social impact of our business activities take place both directly through our own operations and indirectly through our upstream and downstream operations.

The prioritized material disclosure topics are shown in the table Material topics reflecting Kemira's economic, environmental and social impact (p. 66). These material topics, the respective topic boundaries and data compilation practices are reported in the table "Material topics and their boundaries".

## Material topics reflecting Kemira's economic, environmental and social impact (GRI disclosures topics and own topics)

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	INDIRECT IMPACT		DIRECT IMPACT	INDIRECTIMPACT
	Production of input materials and energy	Upstream services	Kemira's own operations	Downstream Use of Kemira products
ECONOMIC IMPACT	Anti-corruption     Anti-competitive behavior	<ul><li>Anti-corruption</li><li>Anti-competitive behavior</li></ul>	<ul> <li>Sustainable products and solutions (own topic)</li> <li>Economic performance*</li> <li>Anti-corruption</li> <li>Anti-competitive behavior</li> </ul>	<ul><li>Anti-corruption</li><li>Anti-competitive behavior</li></ul>
ENVIRONMENTAL IMPACT	<ul> <li>Emissions (Scope 3)</li> <li>Supplier performance for their environmental impacts</li> </ul>	<ul> <li>Emissions (Scope 2 and Scope 3)</li> <li>Supplier performance for their environmental impacts</li> </ul>	<ul> <li>Materials</li> <li>Energy</li> <li>Water</li> <li>Emissions (Scope 1)</li> <li>Effluents and waste</li> <li>Environmental compliance</li> </ul>	<ul> <li>Emissions (Scope 3)</li> <li>Supplier performance for their environmental impacts</li> <li>Emissions (Scope 3)</li> <li>Sustainable products and solutions (own topic)</li> </ul>
SOCIAL IMPACT	Supplier performance for their social impacts and ethical business behavior	Supplier performance for their social impacts and ethical business behavior	<ul> <li>Employment*, and Labor/Management relations*</li> <li>Occupational health and safety</li> <li>Training and education</li> <li>Diversity and equal opportunity</li> <li>Non-discrimination</li> <li>Freedom of association and collective bargaining</li> <li>Human rights assessment</li> <li>Public policy</li> <li>Customer health and safety</li> <li>Marketing &amp; labeling</li> <li>Socioeconomic compliance</li> </ul>	Supplier performance for their social impacts and ethical business behavior

<sup>\*</sup> Not material but reported because considered useful based on continuity

#### GRI 102-48: Restatements of information

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A few restatements of environmental data have been done due to correction or reclassification of data from some manufacturing sites (electricity sold off-site, water recycled, waste discharged) or review of assumptions of Scope 3 calculations (raw materials, upstream and downstream transportations).

#### GRI 102-49: Changes in reporting

There were no significant changes in the reporting.

## REPORT PROFILE GRI 102-50: Reporting period

The reporting period is from January 1 to December 31, 2019.

#### GRI 102-51: Date of most recent report

Kemira's previous Annual Report including non-financial information (GRI disclosures) was published on February 19, 2020.

#### GRI 102-52: Reporting cycle

Kemira's Annual Report is published yearly, by calendar year. The Annual Report consists of Business Overview, Corporate Sustainability, Corporate Governance statement and Financial statements.

## GRI 102-53: Contact point for questions regarding the report

The contact point for questions is Kemira Communications and Corporate Responsibility. Contact details are available at **www.kemira.com**.

### GRI 102-54: Claims of reporting in accordance with the GRI standards

- The report is prepared in accordance with the GRI standards (2016): core option. However the updated 2018 version of GRI 303: Water and Effluents has been applied.
- Communication on Progress (COP) of the United Nations Global Compact at Global Compact Active level by using the GRI-standards reporting principles.

**CORPORATE SUSTAINABILITY** 



REPORTING PRACTICE

#### **MANAGEMENT APPROACH** GRI 103: Management approach

The management of corporate sustainability is focused on three priority areas: sustainable products and solutions, responsible operations and supply chain, and people and integrity which cover also the 20 prioritized GRI disclosure topics and one additional topic not included in the GRI topicspecific standards.

#### GRI 103-1: Explanation of the material topic and its boundary

Material topics covered by the management approach are explained in the table on this page, and the boundaries in the table Material topics and their boundaries (pages 65–66).

#### GRI 103-2: The management approach and its components See Chapter 2 for a detailed description.

#### GRI 103-3: Evaluation of the management approach

See Chapter 2, Results and key activities for 2019 for detailed description.

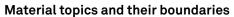
CORPORATE SUSTAINABILITY PRIORITIES	MANAGEMENT APPROACH (GRI 103-1)	MATERIAL GRI DISCLOSURE TOPICS COVERED BY THE MANAGEMENT APPROACH
Sustainable products and solutions	Products improving our customers' sustainability	Sustainable products and solutions (Kemira's own material topic, reported based on the GRI 103 Management approach); Materials
	Chemical safety management throughout the products' lifecycle	Customer health and safety; Marketing and labeling; Socioeconomic (product) compliance.
Responsible operations and Supply Chain Management	Responsible management of our own operations,	Energy; Water; Emissions; Effluents and waste; Environmental compliance; Occupational health and safety
	Responsible performance and good governance throughout our supply chains	Supplier environmental assessment; Supplier social assessment.
People and integrity	Engagement and competence development of our employees	Diversity and Equal Opportunity; Non-discrimination, Training and Education.
	Responsible business practices in our own operations or with our business partners	Anti-corruption; Anti-competitive behavior; Diversity and equal opportunity; non- discrimination; Freedom of association and collective bargaining; human rights assessment; Public policy.



#### Material topics and their boundaries

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GRI 102-47; GRI 103-1 MATERIAL TOPICS	GRI 103-1 TOPIC BOUNDARIES	KEMIRA DATA COLLECTION PRACTICES
Sustainable products and solutions (own material topic)	Kemira operations <sup>1)</sup>	Product applications are manually linked to product categories. Product sales data is extracted from Kemira's ERP system
Economic Standard Series		
Economic performance*	Kemira operations <sup>1)</sup>	Data is extracted from Kemira's ERP system
Anti-corruption	Kemira operations <sup>1)</sup>	Data is collected from each region, from Kemira's legal archive, and through notifications from Kemira's Compliance and Ethics Hotline.
Anti-competitive behavior	Kemira operations <sup>1)</sup>	Data is collected from each region, from Kemira's legal archive, and through notifications from Kemira's Compliance and Ethics Hotline.
Environmental Standard Series		
Materials	Kemira operations as covered by our ERP2)	Data is extracted from Kemira's ERP system.
Energy	Kemira manufacturing sites <sup>3)</sup>	Data is collected from each production site and consolidated at the Group level.
Water	Kemira manufacturing sites³)	Data is collected from each production site and consolidated at the Group level.
Emissions	Kemira manufacturing sites <sup>3)</sup>	Data is collected from each production site and consolidated at the Group level. Scope 3 emissions data is collected from Kemira's ERP system and the relevant organizational units. Default data and assumptions are as in the WBCSD Guidance for Accounting & Reporting Corporate GHG Emissions in the Chemical Sector Value Chain.
Effluents and waste	Kemira manufacturing sites <sup>3)</sup>	Data is collected from each production site and consolidated at the Group level.
Environmental compliance	Kemira manufacturing sites <sup>3)</sup>	Data is collected from each production site and consolidated at the Group level.
Supplier environmental assessment	Kemira suppliers	Harmony Contract Management Tool used to track suppliers' signing of Code of Conduct for BP.



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Social Standard Series		
Employment*	Kemira operations <sup>1)</sup>	HR data management system.
Labor/Management relations*	Kemira operations <sup>1)</sup>	HR data management system.
Occupational health and safety	Kemira operations <sup>1)</sup>	Synergy data management system. Data covers also contractors working at Kemira sites.
Training and education	Kemira operations <sup>1)</sup>	HR data management system.
Diversity and equal opportunities	Kemira operations <sup>1)</sup>	HR data management system.
Non-discrimination	Kemira operations <sup>1)</sup>	Data is collected from each region, from Kemira's legal archive, and through notifications from Kemira's Compliance and Ethics Hotline.
Freedom of association and collective bargaining	Kemira operations <sup>1)</sup>	Data is collected from each region, from Kemira's legal archive, and through notifications from Kemira's Compliance and Ethics Hotline.
Human rights assessment	Kemira operations <sup>1)</sup>	
Supplier social assessment	Kemira suppliers	Harmony Contract Management Tool used to track suppliers' signing of Code of Conduct for BP.
Public policy	Kemira operations <sup>1)</sup>	Data is collected from each region, from Kemira's legal archive, and through notifications from Kemira's Compliance and Ethics Hotline.
Customer health and safety	Kemira operations as covered by our ERP2)	Data is extracted from Kemira's ERP system and from R&D New Product Development process documentation, and from Kemira's legal archives.
Marketing and labelling	Kemira operations as covered by our ERP2)	Data is extracted from Kemira's ERP system and from PSRA <sup>4)</sup> documentation, and from Kemira's legal archives.
Socioeconomic compliance	Kemira operations <sup>1)</sup>	Data is collected from each region, from Kemira's legal archive, and through notifications from Kemira's Compliance and Ethics Hotline.

<sup>\*)</sup> Not material GRI topic but reported because considered useful based on continuity.

<sup>1)</sup> Kemira's operations = All operations covered by Kemira's consolidation rules

<sup>2)</sup> Kemira's operations covered by ERP = All operations covered by both Kemira's consolidation rules and the company's Enterprise Resource Planning (ERP) 3) Kemira's manufacturing sites = All manufacturing sites covered by Kemira's consolidation rules.

<sup>4)</sup> PSRA Product Safety and Regulatory Affairs

REPORTING PRACTICE I ASSURANCE REPORT

#### **ASSURANCE REPORT**

#### GRI 102-56: External assurance

The corporate sustainability information presented in the sections GRI disclosures and Business Overview are externally assured by an independent third party. Information on the organization's policy and current practice with regard to external assurance can be found in the Assurance statement.

#### INDEPENDENT LIMITED ASSURANCE REPORT

#### To the Management of Kemira Oyj

At the request of the Management of Kemira Oyj (hereafter Kemira) we have performed a limited assurance engagement on the corporate sustainability information for the reporting period 1.1.-31.12.2019 presented in Kemira's Annual Report (hereafter corporate sustainability information).

#### Management's responsibility

The Management of Kemira is responsible for the preparation and presentation of the corporate sustainability information in accordance with the GRI Sustainability Reporting Standards, and Kemira's internal reporting guidelines (hereafter the reporting principles).

#### Assurance Provider's responsibility

It is our responsibility to present an independent conclusion on the corporate sustainability information based on our work performed. We do not accept nor assume responsibility to anyone else except to Kemira for our work, for the assurance report and for the conclusions that we have reached.

We have conducted the assurance engagement in accordance with the International Standard on Assurance Engagements (ISAE) 3000 'Assurance Engagements Other than Audits or Reviews of Historical Financial Information'. The ISAE 3000 standard requires compliance

with ethical requirements as well as planning and performing the assurance engagement to obtain limited assurance on whether the corporate sustainability information has been prepared, in all material respects, in accordance with the reporting principles.

#### Assurance Provider's independence and quality assurance

We comply with the independence and other ethical requirements of the Code of Ethics for Professional Accountants issued by the IESBA (International Ethics Standards Board for Accountants). We apply ISQC 1 (International Standard on Quality Control) and accordingly maintain a comprehensive system of quality control including documented policies and procedures regarding compliance with ethical requirements, professional standards and applicable legal and regulatory requirements.

#### Limitations of the Engagement

In a limited assurance engagement, the evidence gathering procedures are more limited than in a reasonable assurance engagement, and therefore less assurance is obtained than in a reasonable assurance engagement. The procedures selected depend on the Assurance Provider's judgment, including an assessment of the risks that the corporate sustainability information would not, in all material respects, comply with the reporting principles. We have planned and performed our engagement to obtain sufficient appropriate evidence on which to base our conclusion.

We have performed, among others, the following procedures:

- An update of our knowledge and understanding of Kemira's material sustainability reporting topics, organization and activities,
- An assessment of suitability and application of the reporting principles regarding the stakeholders' needs for information.
- Interviews with management to understand Kemira's corporate sustainability leadership,
- Interviews with personnel responsible for gathering and consolidation of the corporate sustainability information to understand the systems, processes and controls related to gathering and consolidating the information,

DEBORTING PRACTICE

REPORTING PRACTICE I ASSURANCE REPORT

- Reviewing corporate sustainability data from internal and external sources and checking the data to reporting information on a sample basis,
- Performing recalculation of information and reviewing the underlying data which is the basis of narrative disclosures related to the data.
- Visited Joutseno and Helsingborg sites where we reviewed reporting practices

Our assurance report should be read in conjunction with the inherent limitations of accuracy and completeness for corporate sustainability information. This independent assurance report should not be used on its own as a basis for interpreting Kemira's performance in relation to its principles of corporate sustainability.

#### Conclusion

Based on our work described in this report, nothing has come to our attention that causes us to believe that the corporate sustainability information has not been prepared, in all material respects, in accordance with the reporting principles, or that the Information is not reliable, in all material respects, based on the reporting principles.

Helsinki, 12 February 2020

Ernst & Young Oy

Mikko Rytilahti Partner, Authorized Public Accountant Jani Alenius Leader of Climate Change and Sustainability Services

REPORTING PRACTICE I ASSURANCE REPORT

#### **GRI CONTENT INDEX**

**kemira** 

#### **Abbreviations** Reporting claims BO = Business Overview • The report is prepared in accordance with CS = Corporate Sustainability the GRI-standards (2016): core option GRI 102-55 CG = Corporate Governance • Communication on Progress (COP) of the FS = Financial Statements United Nations Global Compact

GRI STANDARD	DISCLOSURE	PAGE NUMBER(S)	UNITED NATIONS GLOBAL COMPACT
GRI 101: Foundation 2016 General Disclosures			
	Organizational profile		
	102-1 Name of the organization	Kemira Oyj	
	102-2 Activities, brands, products, and services	BO 17-22	
	102-3 Location of headquarters	BO 4	
	102-4 Location of operations	BO 4	
	102-5 Ownership and legal form	BO 4	
	102-6 Markets served	BO 17-22	
	102-7 Scale of the organization	BO 4	
	102-8 Information on employees and other workers	BO 4, CS 51-52	
001400 0 1011	102-9 Supply chain	CS 24-26	Principle 8
GRI 102: General Disclosures 2016	102-10 Significant changes to the organization and its supply chain	CS 65	
	102-11 Precautionary Principle or approach	BO 14-16, CS 9-11, 15	
	102-12 External initiatives	CS 9	
	102-13 Membership of associations	CS 10	
	Strategy		
	102-14 Statement from senior decision-maker	BO 2-3	Commitment to Global Compact
	102-15 Key impacts, risks, and opportunities	BO 14-16, CS 10, 66	
	Ethics and integrity		
	102-16 Values, principles, standards, and norms of behavior	BO 5. CS 9,28,29	Principle 6, 8
	102-17 Mechanisms for advice and concerns about ethics	CS 29	Principle 1, 6, 8



GRI STANDARD	DISCLOSURE	PAGE NUMBER(S)	UNITED NATIONS GLOBAL COMPACT
	Governance		
	102-18 Governance structure	CS 11,14	
	102-19 Delegating authority	CS 14	
	Stakeholder engagement		
	102-40 List of stakeholder groups	CS 10	
	102-41 Collective bargaining agreements	CS 52	Principle 3
	102-42 Identifying and selecting stakeholders	CS 10	
	102-43 Approach to stakeholder engagement	CS 10	
	102-44 Key topics and concerns raised	CS 10	
	Reporting practice		
GRI 102: General Disclosures 2016	102-45 Entities included in the consolidated financial statements	FS NOTE 6.2	
GRI 102. General Disclosures 2016	102-46 Defining report content and topic Boundaries	CS 65	
	102-47 List of material topics	CS 65	
	102-48 Restatements of information	CS 67	
	102-49 Changes in reporting	CS 67	
	102-50 Reporting period	CS 67	
	102-51 Date of most recent report	CS 67	
	102-52 Reporting cycle	CS 67	
	102-53 Contact point for questions regarding the report	CS 67	
	102-54 Claims of reporting in accordance with the GRI Standards	CS 67	
	102-55 GRI content index	CS 73-80	
	102-56 External assurance	CS 71–72	
Material Topics			
SUSTAINABLE PRODUCTS AND SOLUTIONS	Own material topic		
	103-1 Explanation of the material topic and its Boundary	CS 17–20	
GRI 103: Management Approach 2016	103-2 The management approach and its components	CS 17-20	
	103-3 Evaluation of the management approach	CS 17-20	
Own KPI	Product sustainability	CS 13	



GRI STANDARD	DISCLOSURE	PAGE NUMBER(S)	UNITED NATIONS GLOBAL COMPACT
Material Topics GRI 200 Economic Standard Series			
ECONOMIC PERFORMANCE	Not material but reported		
	103-1 Explanation of the material topic and its Boundary	CS 69-70	
GRI 103: Management Approach 2016	103-2 The management approach and its components	CS 30-31	
	103-3 Evaluation of the management approach	CS 30-31	
	201-1 Direct economic value generated and distributed	CS 30-31	
GRI 201: Economic Performance 2016	201-3 Defined benefit plan obligations and other retirement plans	FS NOTE 4.5	
	201-4 Financial assistance received from government	FS NOTE 2.2	
ANTI-CORRUPTION			
	103-1 Explanation of the material topic and its Boundary	CS 69-70	
GRI 103: Management Approach 2016	103-2 The management approach and its components	CS 9-12, 28-29	
	103-3 Evaluation of the management approach	CS 28-29	
	205-1 Operations assessed for risks related to corruption	CS 32	Principle 10
GRI 205: Anti-corruption 2016	205-2 Communication and training about anti-corruption policies and procedures	CS 32	Principle 10
	205-3 Confirmed incidents of corruption and actions taken	CS 33	Principle 10
ANTI-COMPETITIVE BEHAVIOR			
	103-1 Explanation of the material topic and its Boundary	CS 69-70	
GRI 103: Management Approach 2016	103-2 The management approach and its components	CS 9-12, 28-29	
	103-3 Evaluation of the management approach	CS 28-29	
GRI 206: Anti-competitive Behavior 2016	206-1 Legal actions for anti-competitive behavior, anti-trust, and monopoly practices	CS 33	
GRI 300 Environmental Standards Series			
MATERIALS			
	103-1 Explanation of the material topic and its Boundary	CS 69-70	
GRI 103: Management Approach 2016	103-2 The management approach and its components	CS 9-12, 28-29	
	103-3 Evaluation of the management approach	CS 24-26	
CDI 201: Matariala 2016	301-1 Materials used by weight or volume	CS 34	
GRI 301: Materials 2016	301-2 Recycled input materials used	CS 34	Principle 7,8



GRI STANDARD	DISCLOSURE	PAGE NUMBER(S)	UNITED NATIONS GLOBAL COMPACT
ENERGY			
	103-1 Explanation of the material topic and its Boundary	CS 69-70	
GRI 103: Management Approach 2016	103-2 The management approach and its components	CS 9-12, 36-37	
	103-3 Evaluation of the management approach	CS 9-12, 36-37	
	302-1 Energy consumption within the organization	CS 36-37	Principle 7,8
GRI 302: Energy 2016	302-3 Energy intensity	CS 36-37	Principle 8
	302-4 Reduction of energy consumption	CS 36-37	Principle 8, 9
WATER			
	103-1 Explanation of the material topic and its Boundary	CS 69-70	
GRI 103: Management Approach 2016	103-2 The management approach and its components	CS 9-12, 43-44	
	103-3 Evaluation of the management approach	CS 9-12, 43-44	
	303-1 Interactions with water as a shared resource	CS 43-44	Principle 7,8
	303-2 Management of water discharge-related impacts	CS 43-44	
GRI 303: Water 2018	303-3 Water withdrawal	CS 43, 45	Principle 7,8
	303-4 Water discharge	CS 43,45	Principle 7,8
	303-3 Water consumption	CS 43,45	Principle 8
EMISSIONS			
	103-1 Explanation of the material topic and its Boundary	CS 69-70	
GRI 103: Management Approach 2016	103-2 The management approach and its components	CS 9-12, 23	
	103-3 Evaluation of the management approach	CS 9-12, 23	
	305-1 Direct (Scope 1) GHG emissions	CS 40	Principle 7,8
	305-2 Energy indirect (Scope 2) GHG emissions	CS 40	Principle 7,8
	305-3 Other indirect (Scope 3) GHG emissions	CS 40-41	Principle 7,8
GRI 305: Emissions 2016	305-4 GHG emissions intensity	CS 40	Principle 8
	305-5 Reduction of GHG emissions	CS 40	Principle 8, 9
	305-6 Emissions of ozone-depleting substances (ODS)	CS 42	Principle 7,8
	305-7 Nitrogen oxides (NOX), sulfur oxides (SOX), and other significant air emissions	CS 42	Principle 7,8



GRI STANDARD	DISCLOSURE	PAGE NUMBER(S)	UNITED NATIONS GLOBAL COMPACT
EFFLUENTS AND WASTE			
	103-1 Explanation of the material topic and its Boundary	CS 69-70	
GRI 103: Management Approach 2016	103-2 The management approach and its components	CS 9-12	
	103-3 Evaluation of the management approach	CS 9-12, 47-48	
	306-1 Water discharge by quality and destination	CS 43,45-46	Principle 8
GRI 306: Effluents and Waste 2016	306-2 Waste by type and disposal method	CS 47	Principle 8
GRI 300: ETILIENTS and Waste 2016	306-3 Significant spills	CS 49	Principle 8
	306-4 Transport of hazardous waste	CS 49	Principle 8
ENVIRONMENTAL COMPLIANCE			
	103-1 Explanation of the material topic and its Boundary	CS 69-70	
GRI 103: Management Approach 2016	103-2 The management approach and its components	CS 9-12	
	103-3 Evaluation of the management approach	CS 9-12	
GRI 307: Environmental Compliance 2016	307-1 Non-compliance with environmental laws and regulations	CS 50	Principle 8
SUPPLIER ENVIRONMENTAL ASSESSMENT			
	103-1 Explanation of the material topic and its Boundary	CS 69-70	
GRI 103: Management Approach 2016	103-2 The management approach and its components	CS 9-12	
	103-3 Evaluation of the management approach	CS 9-12,26	
GRI 308: Supplier Environmental Assessment 2016	308-1 New suppliers that were screened using environmental criteria	CS 26	Principle 8
GRI 400 Social Standards Series			
EMPLOYMENT	Not material but reported		
	103-1 Explanation of the material topic and its Boundary	CS 69-70	
GRI 103: Management Approach 2016	103-2 The management approach and its components	CS 9-12,27	
	103-3 Evaluation of the management approach	CS 27-29	
GRI 401: Employment 2016	401-1 New employee hires and employee turnover	CS 53	Principle 6
LABOR/MANAGEMENT RELATIONS	Not material but reported		
	103-1 Explanation of the material topic and its Boundary	CS 69-70	
GRI 103: Management Approach 2016	103-2 The management approach and its components	CS 9-12	
	103-3 Evaluation of the management approach	CS 27-29	
GRI 402: Labor/Management Relations 2016	402-1 Minimum notice periods regarding operational changes	CS 54	Principle 3



GRI STANDARD	DISCLOSURE	PAGE NUMBER(S)	UNITED NATIONS GLOBAL COMPACT
OCCUPATIONAL HEALTH AND SAFETY			
	103-1 Explanation of the material topic and its Boundary	CS 69-70	
GRI 103: Management Approach 2016	103-2 The management approach and its components	CS 9-12,21-22	
	103-3 Evaluation of the management approach	CS 9-12,21-22	
GRI 403: Occupational Health and Safety 2016	403-2 Types of injury and rates of injury, occupational diseases, lost days, and absenteeism, and number of work-related fatalities	CS 55	
TRAINING AND EDUCATION			
	103-1 Explanation of the material topic and its Boundary	CS 69-70	
GRI 103: Management Approach 2016	103-2 The management approach and its components	CS 9-12, 27	
	103-3 Evaluation of the management approach	CS 9-12	
	404-1 Average hours of training per year per employee	CS 57	Principle 6
GRI 404: Training and Education 2016	404-2 Programs for upgrading employee skills and transition assistance programs	CS 57	
	404-3 Percentage of employees receiving regular performance and career development reviews	CS 58	Principle 6
DIVERSITY AND EQUAL OPPORTUNITY			
	103-1 Explanation of the material topic and its Boundary	CS 69-70	
GRI 103: Management Approach 2016	103-2 The management approach and its components	CS 9-12, 27	
	103-3 Evaluation of the management approach	CS 9-12	
ODI (OF Diversity and Ferral Oversity 2010	405-1 Diversity of governance bodies and employees	CS 59-60	Principle 6
GRI 405: Diversity and Equal Opportunity 2016	405-2 Ratio of basic salary and remuneration of women to men	CS 61	Principle 6
NON-DISCRIMINATION			
	103-1 Explanation of the material topic and its Boundary	CS 69-70	
GRI 103: Management Approach 2016	103-2 The management approach and its components	CS 9-12,27	
	103-3 Evaluation of the management approach	CS 9-12	
GRI 406: Non-discrimination 2016	406-1 Incidents of discrimination and corrective actions taken	CS 61	Principle 6
FREEDOM OF ASSOCIATION AND COLLECTIVE BARGAINING			
	103-1 Explanation of the material topic and its Boundary	CS 69-70	
GRI 103: Management Approach 2016	103-2 The management approach and its components	CS 9-12,27	
	103-3 Evaluation of the management approach	CS 9-12	
GRI 407: Freedom of Association and Collective Bargaining 2016	407-1 Operations and suppliers in which the right to freedom of association and collective bargaining may be at risk	CS 62	



GRI STANDARD	DISCLOSURE	PAGE NUMBER(S)	UNITED NATIONS GLOBAL COMPACT
HUMAN RIGHTS ASSESSMENT			
	103-1 Explanation of the material topic and its Boundary	CS 69-70	
GRI 103: Management Approach 2016	103-2 The management approach and its components	CS 9-12,28	
	103-3 Evaluation of the management approach	CS 62	
GRI 412: Human Rights Assessment 2016	412-1 Operations that have been subject to human rights reviews or impact assessments	CS 62	Principle 1
SUPPLIER SOCIAL ASSESSMENT			
	103-1 Explanation of the material topic and its Boundary	CS 69-70	
GRI 103: Management Approach 2016	103-2 The management approach and its components	CS 9-12, 24-26	
	103-3 Evaluation of the management approach	CS 24-26	
GRI 414: Supplier Social Assessment 2016	414-1 New suppliers that were screened using social criteria	CS 25	Principle 2
PUBLIC POLICY			
	103-1 Explanation of the material topic and its Boundary	CS 69-70	
GRI 103: Management Approach 2016	103-2 The management approach and its components	CS 9-12	
	103-3 Evaluation of the management approach	CS 28-29	
GRI 415: Public Policy 2016	415-1 Political contributions	CS 62	Principle 10
CUSTOMER HEALTH AND SAFETY			
	103-1 Explanation of the material topic and its Boundary	CS 69-70	
GRI 103: Management Approach 2016	103-2 The management approach and its components	CS 9-12, B014-15	
	103-3 Evaluation of the management approach	B014-15	
	416-1 Assessment of the health and safety impacts of product and service categories	CS 63	
GRI 416: Customer Health and Safety 2016	416-2 Incidents of non-compliance concerning the health and safety impacts of products and services	CS 63	
MARKETING AND LABELING			
	103-1 Explanation of the material topic and its Boundary	CS 69-70	
GRI 103: Management Approach 2016	103-2 The management approach and its components	CS 9-12, BO 14-15	
	103-3 Evaluation of the management approach	B014-15	
ODI (47-Manifestina and L. P. 10040	417-1 Requirements for product and service information and labeling	CS 63	
GRI 417: Marketing and Labeling 2016	417-2 Incidents of non-compliance concerning product and service information and labeling	CS 64	



GRI STANDARD	DISCLOSURE	PAGE NUMBER(S)	UNITED NATIONS GLOBAL COMPACT
SOCIOECONOMIC COMPLIANCE			
GRI 103: Management Approach 2016	103-1 Explanation of the material topic and its Boundary	CS 69-70	
	103-2 The management approach and its components	CS 9-12, BO 14-15	
	103-3 Evaluation of the management approach	BO 14-15	
GRI 419: Socioeconomic Compliance 2016	419-1 Non-compliance with laws and regulations in the social and economic area	CS 64	

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## **Corporate Governance Statement 2019**

#### INTRODUCTION

Kemira Oyj's corporate governance is based on the Articles of Association, the Finnish Companies Act and Nasdaq Helsinki Ltd.'s rules and regulations on listed companies. Kemira complies with the Finnish Corporate Governance Code, which is publicly available at **www.cgfinland.fi**. This statement has been prepared in accordance with the Corporate Governance Code 2015.

This statement is presented separately from the annual report by the Board of Directors. Kemira's Audit Committee has reviewed the Corporate Governance Statement, and the Company's Auditor, Ernst & Young Oy, has verified that the statement has been issued and that the description of the main features of the internal control and risk management related to the financial reporting process included in the statement is consistent with the Financial Statements.

#### **GOVERNANCE BODIES**

The Shareholders' Meeting, the Board of Directors and the Managing Director are responsible for Kemira's governance and operations. Their tasks are defined based on the Finnish Companies Act and Kemira's Articles of Association.

#### SHAREHOLDERS' MEETING

Kemira Oyj's shareholders' meeting, or the General Meeting, is the Company's highest decision-making body, and it is held at least once a year. The Annual General Meeting (AGM) must be held each year by the end of May. The AGM decides on matters within its competence under the Companies Act and the Articles of Association, such as the adoption of the financial statements and dividend payout, the discharge of Board members and the Managing Director and his Deputy from liability, the election of the Chairman, Vice Chairman and other members of the Board of Directors and their remuneration. and the election of the auditor and the auditor's fees. Notice to the shareholders' meeting shall be released on the Company's website no earlier than two months and no later than three weeks before the meeting, however, at least nine days before the record date of the meeting. Additionally, if so decided by the Board of Directors, the Company may publish the notice to the shareholders' meeting in one nationwide newspaper.

Kemira Oyj's Annual General Meeting was held in Helsinki on March 21, 2019. The meeting was attended by 498 shareholders either in person or by proxy, together representing around 58% of the shareholders' votes. The documents related to the AGM are available on Kemira's website www.kemira.com > Company > Investors > Corporate governance > Annual General Meeting.

#### NOMINATION BOARD

The 2012 Annual General Meeting decided to establish a Nomination Board consisting of the shareholders or the representatives of the shareholders to prepare annually a proposal for the next AGM concerning the composition and remuneration of the Board of Directors. The Nomination Board consists of the representatives of the four largest shareholders of Kemira Oyj based on the situation on August 31 preceding the AGM, and the Chairman of Kemira Oyj's Board of Directors acts as an expert member.

The members of the Nomination Board shall elect a Chairman at the first meeting of the Board. The Group General Counsel acts as the Secretary of the Nomination Board. The Nomination Board has a Charter approved by the General Meeting that defines more precisely the process to elect its members and chairman as well as its tasks and meeting routines. The Charter is publicly available on the company's website. According to its Charter, the Nomination Board will meet at least two times a year, with authority to convene additional meetings, as circumstances require. The members present at the meeting shall constitute a quorum if at least three of the members are present at the meeting.

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During the year 2019, the members of the Nomination Board were Annika Paasikivi, Managing Director of Oras Invest Oy, Antti Mäkinen, Managing Director of Solidium Oy, Reima Rytsölä, Executive Vice President, Varma Mutual Pension Insurance Company, Mikko Mursula, Chief Investment Officer, Ilmarinen Mutual Pension Insurance Company, and the Chairman of the Board Jari Paasikivi as an expert member. Annika Paasikivi is the Chairman of the Nomination Board and Group General Counsel Jukka Hakkila acts as the Secretary of the Nomination Board.

The Nomination Board met three times in 2019 with an attendance rate of 100%. Each member's participation in the Nomination Board meetings was as follows:

Name	Participation in meetings	Participation percentage
Mursula, Mikko	3/3	100%
Mäkinen, Antti	3/3	100%
Paasikivi, Annika	3/3	100%
Paasikivi, Jari	3/3	100%
Rytsölä, Reima	3/3	100%
Total	15/15	100%

#### **BOARD OF DIRECTORS**

#### Composition

The AGM elects the Chairman, Vice Chairman and other members of the Board of Directors. In accordance with the Articles of Association, the Board of Directors comprises 4-8 members. On March 21, 2019, the Annual General Meeting elected six members to the Board of Directors. The AGM re-elected Wolfgang Büchele, Shirley Cunningham, Kaisa Hietala, Timo Lappalainen, Jari Paasikivi and Kerttu Tuomas to the Board of Directors, Jari Paasikivi was elected the Board's Chairman and Kerttu Tuomas was elected the Vice Chairman. Group General Counsel Jukka Hakkila acts as the Secretary of the Board of Directors. All of the Board members are independent of the Company. During the review period Kaisa Hietala was not independent of the company until February 19, 2019, because until that time she was the Executive Vice President. Renewable Products and a member of the Executive Board at Neste Corporation. Kemira's President and CEO Jari Rosendal is a member of the Board of Directors of Neste Corporation. According to Recommendation 10.f of the Finnish Corporate Governance Code this created an interlocking control relationship which caused the Board member to be not independent of the company. The Board members are also independent of significant shareholders of the Company except for the Chairman Jari Paasikivi. Jari Paasikivi is the Chairman of the Board of Directors of Oras Invest Oy and Oras Invest Oy owns over 10% of Kemira Oyj's shares. The personal information concerning the members of the Board of Directors can be found in the section Group Management and their holdings can be found under the heading Insiders.

CORPORATE SUSTAINABILITY

## Principles concerning the diversity of the Board of Directors

The Board of Directors has adopted the following principles and targets concerning the diversity of the Board of Directors. When designing the composition of the Board of Directors, the Nomination Board of the company assesses the Board composition from the viewpoint of the company's current and future business needs, while taking into account the diversity of the Board. The diversity of the Board of Directors will be assessed from various viewpoints. Kemira's Board of Directors shall have sufficient and complementary experience and expertise in the key industries and markets relevant to Kemira's business. In addition, an essential element is the personal characteristics of the members and their diversity. The company's aim is that the Board of Directors represent diverse expertise in different industries and markets, diverse professional and educational background, diverse age distribution and both genders. The objective is that both genders are represented in the Board by at least two members. The current Board of Directors of the company complies with the company's diversity targets. Versatile expertise from various industries and markets is represented in the Board of Directors, as well as various professional and educational backgrounds. There is an equal number of male and female directors.

#### Tasks and duties

According to the Articles of Association, the Board of Directors is tasked with duties within its competence under the Companies Act. It has drawn up a written Charter defining its key duties and procedures. The Charter is publicly available on the company's website. The following

is a description of the essential contents of the Charter. The Board of Directors is in charge of corporate governance and the due organization of the Company's operations. It decides on convening and prepares the agenda for the shareholders' meeting and ensures the practical implementation of decisions taken thereby. In addition, the Board of Directors decides on authorizations for representing the Company. The Board of Directors' key duties include matters which, in view of the scope and type of the Company's operations, are uncommon or involve wideranging effects. These include establishing the Company's long term goals and the main strategies for achieving them, approving the annual business plans and budget, defining and approving corporate policies in key management control areas, approving the Company's organizational structure and appointing the Managing Director, his Deputy and members of the Management Board. The Board of Directors approves the Company's capital investment policy and major investments, acquisitions and divestments. It also approves the group treasury policy and major long term loans and guarantees issued by the Company. The Board's duties include ensuring that the Company has adequate planning, information and control systems and resources for monitoring result and managing risks in operations. The Board of Directors monitors and evaluates the performance of Managing Director, his Deputy and members of the Management Board and decides upon their remuneration and benefts. The Board's duty is to ensure continuation of the business operations by succession planning for key persons. The Board defines

and approves the main principles for the incentive bonus systems within the Company. The Board of Directors also manages other tasks within its competence under the Companies Act. It is responsible for the due organization of the supervision of the Company's accounting and asset-liability management. The Board of Directors sees to it that the Company's financial statements give a true and fair view of the Company's affairs and that the consolidated financial statements are prepared under the International Financial Reporting Standards (IFRS) and the parent company's financial statements under the acts and regulations in force in Finland (FAS).

The Board of Directors' meetings discuss the Company's profit performance at monthly level. The Board of Directors discusses the Company's audit with the auditor. The Board of Directors evaluates its performance and working methods on an annual basis. According to the Charter of the Board of Directors, the Board must convene regularly and at least eight times a year. The Board of Directors has a quorum when more than half of the Directors are present. The opinion which has been supported by more than half of those present shall become the decision or, in the event of votes being equal, the opinion with which the Chairman concurs.

In 2019, the Board of Directors met nine times. The average attendance rate at the meetings was 96.3%. Each director's attendance in the meetings was as follows:

Name	Participation in meetings	Participation percentage
Büchele, Wolfgang	8/9	88.9%
Cunningham, Shirley	9/9	100%
Hietala, Kaisa	9/9	100%
Lappalainen, Timo	9/9	100%
Paasikivi, Jari	9/9	100%
Tuomas, Kerttu	8/9	88.9%
Total	52/54	96.3%

#### **BOARD COMMITTEES**

Kemira Oyj's Board of Directors has appointed two committees: the Audit Committee and the Personnel and Remuneration Committee.

#### **Audit Committee**

The Audit Committee works in accordance with its Charter confirmed by the Board of Directors. The Charter is publicly available on the Company's website. It is tasked to assist the Board of Directors in fulfilling its oversight responsibilities for financial reporting process, the system of internal control, the internal and external audit process and Kemira's process for monitoring compliance with laws and regulations and the Kemira Code of Conduct.

The Committee reports to the Board on each meeting. The Audit Committee consists of three members of the Board of Directors. Majority of the members shall be independent of the company and at least one member shall be independent

of significant shareholders. According to its Charter, the Audit Committee shall convene at least four times a year. The Audit Committee has a quorum when at least two members are present in the meeting.

After the 2019 AGM, the Board re-elected Timo Lappalainen as the Chairman of the Audit Committee and Kaisa Hietala and Jari Paasikivi as members of the Committee. The Audit Committee met five times in 2019 with an attendance rate of 100%. Each member's attendance in the Audit Committee meetings was as follows:

Name	Participation in meetings	Participation percentage
Hietala, Kaisa	5/5	100%
Lappalainen, Timo	5/5	100%
Paasikivi, Jari	5/5	100%
Total	15/15	100%

# Personnel and Remuneration Committee

The Personnel and Remuneration Committee works according to its Charter confirmed by the Board of Directors. The Charter is publicly available on the company's website. The Committee assists the Board of Directors by preparation of matters related to compensation of Managing Director, his Deputy and the members of the Management Board, and by preparation of matters pertaining to the compensation systems and long-term incentive plans of the Company and oppointment. The Committee also monitors succession

planning of the senior management and the senior management's performance evaluation. The Committee plans matters pertaining to the development of the organization and reviews the Remuneration Statement of the Company. The Committee reports to the Board of Directors on each meeting.

CORPORATE SUSTAINABILITY

The Committee consists of three members, the majority of which shall be independent of the Company. According to its Charter, the Committee shall convene at least twice a year. The members present at the meeting shall constitute a quorum if at least two of the members are present at the meeting.

After the 2019 AGM, the Board re-elected Jari Paasikivi the Chairman of the Personnel and Remuneration Committee and Kerttu Tuomas and Timo Lappalainen the members of the Personnel and Remuneration Committee. In 2019, the Personnel and Remuneration Committee met five times. The attendance rate at the meetings was 93.3%.

Each member's attendance in the Personnel and Remuneration Committee meetings was as follows:

Name	Participation in meetings	Participation percentage
Lappalainen, Timo	5/5	100%
Paasikivi, Jari	5/5	100%
Tuomas, Kerttu	4/5	80%
Total	14/15	93.3%

## MANAGING DIRECTOR

The Board of Directors appoints the Managing Director and the Managing Director's Deputy. Under the Articles of Association, the Managing Director is responsible for managing and developing the Company in accordance with the instructions and regulations issued by the Board of Directors, ensuring that the Company's interests are served by the subsidiaries and associated companies under its ownership, and implementing the decisions taken by the Board of Directors. The Managing Director reports to the Board on financial affairs, the business environment and other significant issues. The Managing Director is the Chairman of Kemira's Management Board. Kemira Oyj's Managing Director (President and CEO) is Jari Rosendal, and the Deputy Managing Director is Group General Counsel Jukka Hakkila. The Managing Director and the Managing Director's Deputy, including their related parties, are not involved in any substantial business relationships with the Company.

The personal information concerning the Managing Director and the Managing Director's Deputy is set forth under the section Group Management and their holdings can be found in the section Insiders. The financial benefits related to the Managing Director's employment relationship are described in the section Remuneration Report.

#### MANAGEMENT BOARD

The Management Board is an operative, non-statutory management body that is responsible for securing the long-term strategic development of the Company. Kemira's



Management Board consists of Managing Director Jari Rosendal (President and CEO), Petri Castrén (CFO), Matthew R. Pixton (CTO), Kim Poulsen (President, Pulp & Paper), Esa-Matti Puputti (EVP, Operational Excellence), Antti Salminen (President, Industry & Water) and Eeva Salonen (EVP, HR).

The Managing Director is the Chairman of the Management Board and the Group General Counsel acts as its Secretary. The personal information of the Management Board members are presented in the section Group Management and their holdings can be found in the section Insiders. The decisionmaking process and main principles of remuneration of the members of the Management Board are described in the section Remuneration Report.

# OPERATIVE ORGANIZATION

Kemira has organized its business into two customer based segments. The Pulp & Paper segment focuses on serving customers in the pulp and paper industry and the Industry & Water segment focuses on serving customers in the municipal and industrial water treatment as well as oil, gas and mining industries. The segments have a strategic leadership role as they formulate their respective business strategies and guide the strategy implementation within the segment. Operational business responsibilities as well as the Profit & Loss responsibility belong to each of the segments. The segments are guided by policies and guidelines defined by global functions. Global functions are responsible for developing policies, processes, guidelines and tools related to their respective functional areas on a global basis. Such policies and processes are complied with throughout the Company.

Functions also have representatives in each geographic region. Regional functions ensure that the global policies are implemented and adhered to in the regions. They are also responsible for supporting the business locally in the region. Geographically Kemira's operations are divided into three business regions: Europe, Middle East and Africa (EMEA), Americas and Asia Pacific (APAC). The Region Heads provide operational support and co-ordination within the region and steer all regional development projects.

# INTERNAL CONTROL

Kemira maintains an internal control system to ensure the effectiveness and efficiency of its operations, including the reliability of financial and operational reporting and compliance with the applicable regulations, policies and practices. Internal control is an integral part of all of Kemira's operations and covers all levels of the Group. The entire Group personnel are responsible for internal control and managers monitor its effectiveness as part of operative management.

Kemira's corporate values, Code of Conduct and Group level policies and procedures guide the corporate governance and internal control in the Group. The internal policies and the Kemira Code of Conduct have been communicated to all Group staff. The Group also provides training concerning the main policies for people who need to know the policies in question. The Code of Conduct is trained to all employees. Every employee has the right and duty to report any violations of the law, the Code of Conduct or Group policies. The main components

of internal control are the management and organizational culture, risk assessment, control activities, reporting and communication, as well as monitoring and auditing.

# **INSIDERS**

Kemira Oyj complies with EU Market Abuse Regulation, Finnish Securities Market Act, the rules and regulations issued by the European Securities and Markets Authority (ESMA) and Finnish Financial Supervision Authority (Fin-FSA) as well as the Guidelines for the Insiders of Listed Companies issued by Nasdaq Helsinki Ltd. The company has identified the persons and vice-persons responsible for the various areas of insider administration within the company, including among others compliance in general, decision-making on publishing of insider information and on delaying the publication, maintaining the insider list, overseeing the compliance with the trading restriction as well as the publication of transactions made by the persons discharging managerial responsibilities and their closely associated persons involving stocks and other financial instruments relating to Kemira.

The company has determined, as required by the Market Abuse Regulation, that the persons discharging managerial responsibilities within the company include the Board of Directors, the Managing Director (President & CEO), Management Board as well as the secretary of Board of Directors and Management Board. The persons discharging managerial responsibilities are responsible for identifying their closely associated persons and to disclose the same to Kemira. Kemira discloses by way of stock exchange release all transactions made by the persons discharging managerial responsibilities and their closely associated persons and companies involving stocks and other financial instruments relating to Kemira, as required by the Market Abuse Regulation.

According to the law, a person discharging managerial responsibilities must not make transactions with stocks or other financial instruments of a listed company during a period of 30 days preceding the publications of the interim or annual financial report of a listed company. Kemira applies a similar 30 days trade restriction to those of Kemira Group employees, who are involved in the preparation or publication of the interim or annual financial report and who have access to group level unpublished financial information. Kemira Oyj's insider list is maintained by the legal department of the company. The attached table lays out the number of stocks owned by the persons discharging managerial responsibilities in Kemira Oyj, and by companies under their control, on December 31, 2019.

# **INTERNAL AUDIT**

Kemira Group's Internal Audit function provides independent appraisal and assurance for the review of operations within the Group in order to support the management and the Board of Directors in fulfilling their oversight responsibilities. The purpose is to evaluate and contribute to the improvement of risk management, control and governance systems in the Group. The purpose, authority and responsibilities of the unit

#### **BOARD OF DIRECTORS**

Name	Position	Personal Ownership, shares	Ownership through controlled entities
Paasikivi Jari	Chairman of the Board of Directors	231,003	0
Tuomas Kerttu	Vice Chairman of the Board of Directors	15,887	0
Büchele Wolfgang	Member of the Board of Directors	108,023	0
Cunningham Shirley	Member of the Board of Directors	4,184	0
Hietala Kaisa	Member of the Board of Directors	5,667	0
Lappalainen Timo	Member of the Board of Directors	9,430	0
Total		374,194	

#### MANAGEMENT BOARD

Name	Position	Personal Ownership, shares	Ownership through controlled entities
Rosendal Jari	Chief Executive Officer (President & CEO)	93,840	0
Castrén Petri	Member of the Management Board	28,094	0
Pixton Matthew	Member of the Management Board	5,774	0
Poulsen Kim	Member of the Management Board	18,377	0
Puputti Esa-Matti	Member of the Management Board	17,573	0
Salminen Antti	Member of the Management Board	22,991	0
Salonen Eeva	Member of the Management Board	44,162	0
Hakkila Jukka	Other person discharging managerial responsibilities	75,429	0
Total		306,240	0

are defined in the Kemira Internal Audit Charter approved by the Audit Committee. Internal auditors have complete and unrestricted access to all Kemira activities.

Internal Audit is free to determine the scope of internal auditing, the ways of performing its work and communicating its results. Internal Audit reports to the Audit Committee and administratively to the Group General Counsel. Internal Audit reports all of its observations to the responsible management and to the auditor. In addition, Internal Audit reports regularly the most essential and material observations to the Audit Committee in connection with the Audit Committee's meetings. Furthermore, the Internal Audit has a direct and unrestricted access to discuss with the Chairman of the Audit Committee.

# **AUDIT**

Under the Articles of Association, the shareholders' meeting elects an audit firm certified by the Finnish Patent and Registration Office as the Company's auditor. The audit firm appoints the Principal Auditor, who is an Authorized Public Accountant certified by the Finnish Patent and Registration Office. The auditor's term of office continues until the next Annual General Meeting after the Auditor's election. The 2019 Annual General Meeting elected Ernst & Young Ltd. as the Company's auditor, with Mikko Rytilahti, APA, acting as the Principal Auditor. During the reporting period Deloitte Ltd. served as the Companys auditor until the Annual General Meeting, with Jukka Vattulainen, APA, acting as the Principal

Auditor. In 2019, the audit fee paid globally to the audit firm Ernst & Young totaled EUR 1.4 million. In addition, a total of EUR 0.3 million was paid as fees for tax services and 0.3 million for other services.

# CONTROL AND RISK MANAGEMENT SYSTEMS PERTAINING TO THE FINANCIAL REPORTING PROCESS

Kemira's Board of Directors defines the main principles of risk management and approves the Group's risk management policy. The business segments and functions are responsible for identifying, assessing and managing risks involved in their activities. The Group's Risk Management function coordinates and supports risk management. Kemira's internal control system covers all Group operations, including financial reporting. The internal control activities are carried out in all organizational levels as part of the Group's daily operations. A more detailed description of risks and risk management can be found in Board of Directors Review and on the Company's website at www.kemira.com > Company > Investors > Corporate governance > Internal Control and Risk management. A general description of Kemira's internal control system can be found above under the heading Internal control.

The following describes how Kemira's internal control and risk control work in connection with the financial reporting process to ensure that the financial reports published by the Company give essentially correct information of the Company's financial situation.

## **ROLES AND RESPONSIBILITIES**

Kemira's Board of Directors ensures that the Company has sufficient resources for risk management and control, and that the control has been arranged appropriately and that the financial statements provide correct and sufficient information of the Company. The Board of Directors is assisted by the Audit Committee in these tasks. The Managing Director handles the Company's everyday management in accordance with instructions and regulations from the Board of Directors. The Managing Director is responsible for the Company accounting being lawful and that assets are managed reliably.

The CFO is responsible for the general control system of financial reporting. The areas of responsibility between financial administration of the Group and the regions have been defined precisely. Group level financial functions support, monitor, instruct and offer training to the financial organizations of the regions. Group level financial functions are also responsible for the Group's financial reporting and support segment controllers in analyzing business processes. Financial organization in the regions is responsible for the functionality of the accounting processes and correctness of figures in their region. Controlling in segments operates under the segments' business management and analyzes and supports the business processes.

The Group's IT function has a significant role both in financial reporting and internal control, as reporting and many control measures, such as process monitoring are based on IT solutions.

BUSIN

The Internal Audit function including its tasks and areas of responsibility are described more specifically above under the heading Internal Audit.

#### **RISK MANAGEMENT**

The Group's financial administration is responsible for managing risks related to financial reporting. The risks are identifed, assessed and managed in connection with the Group's general risk management process and separately as part of financial administration's own operating processes. The Group's financial administration assesses risks it has recognized related to financial reporting. The aim of the risk assessment is to identify and to assess the most significant threats affecting the financial reporting and to define to which function or process risks are related and how the risks would affect the Group's financial reporting if those were to materialize. The Group's financial administration and Risk Management are responsible for that the risks are reassessed regularly.

### FINANCIAL REPORTING AND CONTROL

The internal control and risk management systems pertaining to the financial reporting process have been designed so that sufficient certainty on the reliability of the financial reporting can be obtained and that the financial statements have been prepared in accordance with the applicable laws and regulations. Kemira complies with the international standards for financial statements (IFRS) which are applicable in the EU and other requirements of the listed companies. Kemira Group policies and procedures define in detail the processes and principles of accounting and financial reporting to be applied in all Group companies.

The purpose of the policies and procedures is to ensure the reliability of financial reporting. The Group has a uniform and comprehensive Enterprise Resources Planning (ERP) system that ensures fast and reliable access to data. Subsidiaries report their figures from the ERP system to the Group, using a uniform Group reporting system. The financial organizations of the Group, segments and regions check the correctness of the figures in the Group reporting system in accordance with the responsibility areas described above. Proper control of financial administration, financial reporting and accounting processes is a basic requirement for the reliability of financial reporting. The Group financial administration has determined the appropriate control functions, the objectives of each control function and how the effectiveness of the control functions is monitored and checked based on a risk analysis it performs. The control functions are described in the above mentioned risk documentation and financial administration is responsible for their practical implementation.

Financial reporting control is performed either continuously as part of the transactions of the company's monitoring processes such as purchasing and sales processes, or alternatively monthly or annually as part of the reporting process.

### COMMUNICATION

By well-functioning internal control environment Kemira aims at securing the timeliness, correctness and transparency of the company's internal and external communication. The most essential guidelines and regulations concerning the financial reporting, internal

control and risk management, such as the guidelines regarding the principles of preparation of the financial statements and financial reporting, are available to all employees in the group intranet. Kemira's financial administration regularly arranges trainings regarding internal control and financial reporting as well as using the relevant tools.

### MONITORING

The functionality of internal control, risk management and reporting systems is constantly monitored as part of daily management of the Company. Each segment, function and region is responsible for implementing internal control, its efficiency and reliability of reporting within their area of responsibility. The Group financial administration monitors the functionality and reliability of the financial reporting process and principles at Group level. The financial reporting processes are also monitored by the Internal Audit function.

GROUP MANAGEMENT

# **Board of Directors**











#### JARI PAASIKIVI

## b. 1954

- · Finnish citizen
- M.Sc. (Econ.)
- Chairman of the Board, member of the Audit
   Committee, chairman of the Personnel and Remuneration
   Committee
- Independent of the Company
- Main occupation Chairman of the Board of the Directors of Oras Invest Oy, which owns over 10% of Kemira Oyj's shares

# **KERTTU TUOMAS**

#### b. 1957

- Finnish citizen
- · B.Sc. (Econ.)
- Vice Chairman of the Board, member of the Personnel and Remuneration Committee
- Independent of the Company and its significant shareholders

## **WOLFGANG BÜCHELE**

- b. 1959
- · German citizen
- Dr. rer.nat.
- · Member of the Board
- Independent of the Company and its significant shareholders
- Main occupation Exyte AG, CEO

## SHIRLEY CUNNINGHAM

- b. 1960
- United Kingdom citizen
- MBA
- · Member of the Board
- Independent of the Company and its significant shareholders

#### KAISA HIETALA

- b. 1971
- Finnish citizen
- M.Sc.(Physics) and M.Sc. (Env.Sc.)
- Member of the Board, member of the Audit
   Committee
- Independent of the Company as of February
   19, 2019, Independent of the Company's significant shareholders

## TIMO LAPPALAINEN

- b. 1962
- Finnish citizen
- M.Sc. (Eng.)
- Member of the Board, Chairman of the Audit Committee, member of the Personnel and Remuneration Committee
- Independent of the Company and its significant shareholders
- Main occupation Orion Corporation, President & CEO

Further information on the Board of Directors and the Management Board is available on www.kemira.com.



**GROUP MANAGEMENT** 

# **Group Management**

Managing Director, Deputy Managing Director and members of the Management Board



JARI ROSENDAL

b. 1965

- M. Sc. (Eng.)
- Managing Director of Kemira Oyj
- Chairman of the Management Board



**ANTTI SALMINEN** 

b. 1971

- · Ph.D (Eng.)
- · President, Industry & Water



PETRI CASTRÉN

- b. 1962
- LL.M., MBA
- · Chief Financial Officer



**JUKKA HAKKILA** 

- b. 1960
- LL.M.
- Group General Counsel
- Deputy Managing Director, secretary of the Board of Directors and the Management Board



MATTHEW R. PIXTON

- b. 1964
- · Ph.D. (Chem. Eng.)
- CTO



KIM POULSEN

- b. 1966
- · M. Sc. (Econ.)
- · President, Pulp & Paper



**ESA-MATTI PUPUTTI** 

- b. 1959
- · Lic. Tech. (Eng)
- Executive Vice President, Operational Excellence



**EEVA SALONEN** 

b. 1960

- M.A. (Edu.)
- Executive Vice President, Human Resources

# REMUNERATION STATEMENT 2019

# **Remuneration Statement 2019**

# INTRODUCTION

This remuneration statement describes Kemira's remuneration principles and the remuneration of the Board of Directors and the operative management, i.e., the President & CEO, the Deputy CEO and the other members of the Management Board in 2019. The remuneration statement has been prepared in accordance with the Finnish Corporate Governance Code 2015.

The remuneration statement is divided into following sections:

- Key principles of remuneration
- Decision-making procedure concerning the remuneration
- Management remuneration
- Board of Directors remuneration

# **KEY PRINCIPLES OF REMUNERATION**

The remuneration at Kemira is designed to drive the company's long-term financial success, business strategy and positive development of the shareholder value.

Kemira's key remuneration principles are:

- Pay-for-performance is Kemira's main principle in remuneration. Kemira acknowledges and rewards for good performance and achievements. Kemira strives to establish a clear link between company and employee performance and success.
- Competitive, market driven remuneration ensures
  that Kemira can attract, motivate and retain the best
  employees for Kemira. Kemira regularly benchmarks its
  remuneration against relevant geographic and industry
  market.
- Effective communication of remuneration principles and programs ensures transparency both internally and externally. Reward principles and programs are communicated to employees and external stakeholders.
- Compliance with local laws and Kemira's internal remuneration approval principles is a prerequisite for remuneration at Kemira. Kemira has implemented internal controls to ensure compliance.

# DECISION-MAKING PROCEDURE CONCERNING THE REMUNERATION

The General Meeting decides on the remuneration of the Board of Directors. The Nomination Board consisting of the representatives of the four largest shareholders of Kemira Oyj prepares annually a proposal for the next General Meeting concerning the composition and remuneration of the Board.

The Board of Directors decides the salaries, other remuneration and the terms of employment of the President & CEO, the Deputy CEO and the other members of the Management Board. The Personnel and Remuneration Committee of the Board assists the Board of Directors by preparing matters related to remuneration of the President & CEO, his Deputy and the other members of the Management Board.

# REMUNERATION REPORT

## **MANAGEMENT REMUNERATION 2019**

Remuneration of the President & CEO, and the other members of the Management Board comprises a base salary, benefits and performance-based incentive plans. The incentive plans consist of an annual short-term bonus plan and a long-term share incentive plan. No remuneration is paid to the Deputy CEO based on CEO substitution.

# REMUNERATION PAID TO THE MANAGEMENT BOARD

In 2019, the total remuneration paid to President & CEO Jari Rosendal amounted to EUR 1,109,879 (2018:EUR 1,021,520), including the base salary and benefits, supplementary pension and short-term bonus based on the 2018 performance period of EUR 90,720 (2018: 109,080) and long-term share incentive based on the performance period 2018 of 11,640 shares, value EUR 311,539 including cash portion of the reward (2018:13,600 shares, EUR 345,440).

In 2019, the total remuneration paid to the other members of the Management Board amounted to EUR 2,711,592 (2018: EUR 2,835,124), including the base salaries and benefits, short- term bonuses of EUR 228,536 (2018: EUR 265,561) and long- term share incentives based on the performance period 2018 32,010 shares, total value of EUR 730,850 including cash portion (2018: 33,220, EUR 803,147).

REMUNERATION REPORT	Salary and benefts (EUR)	Short-term bonus plan (EUR)	Long-term share incentive plan (EUR)	Total 2019 (EUR)	Total 2018 (EUR)
Managing Director Jari Rosendal	707,620	90,720	311,539	1,109,879	1,021,520
Other members of the management board	1,752,206	228,536	730,850	2,711,592	2,835,124

<sup>\*</sup> Long-term incentive plans include a cash portion intended to cover the taxes of the reward.

# SHORT-TERM BONUS PLAN FOR THE MANAGEMENT

The objective of the short-term bonus plans is to drive the annual objectives and priorities of the company, ensuring alignment with the company strategy and the shareholders' interests.

The short-term bonus plan for the President & CEO, and other members of the Management Board is determined based on the achievement of the Kemira Group, Segment level and role based targets set by the Board of Directors for each financial year.

In 2018 and 2019, the maximum bonus for the CEO was 70% of the annual base salary, and for the other members of the Management Board from 60 to 80% of the annual base salary.

In the 2019 earning period, the criteria for the shortterm incentive plans were determined on the basis of the operative cash flow after investing activities, operative EBITDA in EUR and in margin, safety related KPI's of Kemira Group, and role based targets. The reward from the 2019 earning period will be paid in February 2020.

In the 2018 earning period, the criteria for the short-term incentive plans were determined on the basis of the operative cash flow after investing activities, operative EBITDA margin, safety related KPI's of Kemira Group, and role based targets. The reward from the 2018 earning period was paid in February 2019.

#### LONG-TERM SHARE INCENTIVE PLANS

The objective of the long-term share incentive plans is to combine the interests of the shareholders and the President & CEO, and the other members of the Management Board in order to increase the value of Kemira and to commit the President & CEO, and the other members of the Management Board to Kemira.

<sup>\*\*</sup> Base salary and benefits of Managing Director include car, mobile phone and supplementary pension

<sup>\*\*\*</sup>Other members of the Management Board 2019: CFO Petri Castrén, CTO Matthew R. Pixton, President Pulp and Paper Kim Poulsen, EVP Operational Excellence Esa-Matti Puputti, President Industry and Water Antti Salminen, EVP Human Resources Eeva Salonen. No remuneration was paid to the Deputy CEO based on CEO substitution in 2019.



### LONG-TERM SHARE INCENTIVE PLANS 2015-2017 AND 2018

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DECISION-MAKING	On December 15, 2014, the Board of Directors of Kemira Oyj decided to establish a long-term share incentive plan directed to a group of key employees in Kemira, and on February 7, 2018 the Board of Directors of Kemira Oyj resolved to continue the plan for 2018. The Personnel and Remuneration Committee received advice for the planning work of the long-term share incentive plan from an external incentive advisor.
EARNING PERIODS AND CRITERIA	The long-term share incentive plan included four performance periods: calendar years 2015, 2016, 2017 and 2018. The Board of Directors of Kemira decided on the plan's performance criteria and on the required performance levels for each criterion at the beginning of each performance period.  The criterion for the performance period 2018 was Kemira Group's Intrinsic Value.
REWARDS	The potential reward was paid partly in Kemira's shares and partly in cash. The cash portion was intended to cover the taxes and tax-related costs arising from the reward to the participant.  Based on the 2018 performance period a reward of 140,844 Kemira Oyj shares was paid out in March 2019. Additionally, a cash portion intended to cover taxes and tax related costs was paid out to the participants in connection with the delivery of the shares. The plan was directed to 78 people in the earning period 2018.
RESTRICTION PERIODS	The shares paid as reward may not be transferred during the restriction period, which will end two years from the end of the performance period. For the reward paid out in 2019, the restriction period will end on December 31, 2020.
EMPLOYMENT CONDITIONS	As a rule, no reward will be paid, if a participant's employment or service ends before the reward payment. Should a participant's employment or service end during the restriction period, as a rule, he or she must gratuitously return to the company the shares given as reward.
CLAWBACK	Clawback provisions apply to the rewards paid under this plan in exceptional circumstances, such as misconduct or misstatement of financial results.
SHARE OWNERSHIP GUIDELINES	The Board of Directors recommends that a member of the Management Board will own such number of Kemira's shares that the total value of his or her shareholding corresponds to the value of his or her annual gross salary as long as the membership continues. If this recommendation is not yet fulfilled, the Board of Directors recommends that a member of the Management Board will hold 50 per cent of the number of shares given on the basis of this plan also after the end of the restriction period, as long as his or her shareholding in total corresponds to the value of his or her annual gross salary.

**REMUNERATION STATEMENT 2019** 

#### LONG-TERM SHARE INCENTIVE PLAN 2019-2023

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DECISION-MAKING	In December 2018, the Board of Directors of Kemira Oyj decided to establish a long-term share incentive plan for the years 2019 – 2023 directed to a group of key employees in Kemira. The Personnel and Remuneration Committee received advice for the planning work of the long-term share incentive plan from an external incentive advisor.
	The long-term share incentive plan includes two one-year performance periods, years 2019 and 2020, and three three-year performance periods: years 2019–2021, 2020–2022 and 2021–2023. This structur enables a gradual shift from one-year performance periods to three-year performance periods.
	In the beginning of each performance period, the Board of Directors decides on the plan's performance criteria, the required performance levels for each criterion, and the plan's participants and share allocations during the performance period.
EARNING PERIODS AND CRITERIA	<ul> <li>For the performance period 2019, the performance criterion is Kemira Group's Intrinsic Value, and the potential reward will be paid out in 2020. For the performance period 2019–2021, the performance criterion is Kemira Group's average Intrinsic Value 2019–2021, and the potential reward will be paid out in 2022.</li> <li>During the performance periods 2019 and 2019–2021, the long-term share incentive plan is directed to approximately 90 people. The rewards potentially payable on the basis of the performance periods 2019 and 2019–2021 may amount up to a maximum of 643,500 Kemira Oyj shares.</li> <li>For the performance period 2020, the performance criterion will be Kemira Group's Intrinsic Value, and the potential reward will be paid out in 2021. For the performance period 2020–2022, the performance criterion will be Kemira Group's Organic Growth 2020–2022, and the potential reward will be paid out in 2023.</li> <li>During the performance periods 2020 and 2020–2022, the long-term share incentive plan is directed to approximately 90 people. The rewards potentially payable on the basis of the performance periods 2020 and 2020–2022 may amount up to a maximum total of 643,500 Kemira Oyj shares.</li> </ul>
REWARDS	The potential reward will be paid partly in Kemira's shares and partly in cash. The cash portion is intended to cover the taxes and tax-related costs arising from the reward to the participant.
RESTRICTION	For the one-year performance periods (2019 and 2020), the shares paid as reward may not be transferred during the restriction period, which will end two years from the end of the performance period. No restriction period applies to the three-year performance periods.
EMPLOYMENT	As a rule, no reward will be paid, if a participant's employment or service ends before the reward payment. Should a participant's employment or service end during the restriction period, as a rule, he can she must gratuitously return to the company the shares given as reward.
CLAWBACK	Clawback provisions apply to plan rewards in exceptional circumstances, such as misconduct or misstatement of financial results.
SHARE OWNERSHIP GUIDELINES	The Board of Directors recommends that a member of the Management Board will own such number of Kemira's shares that the total value of his or her shareholding corresponds to the value of his or her annual gross salary as long as the membership continues. If this recommendation is not yet fulfilled, the Board of Directors recommends that a member of the Management Board will hold 50 per cent of the number of shares given on the basis of this plan also after the end of the restriction period, as long as his or her shareholding in total corresponds to the value of his or her annual gross salary.

# **OVERVIEW OF LONG-TERM INCENTIVES PLANS** PSP 2017 PSP 2018 PSP 2019 PSP 2019-2021 PSP 2020 PSP 2020-2022 PSP 2021-2023 2018 2018 2020 2021 2022 2022 2022

- Board decision on the plan
- Board decision on the grant
- Performance period
- Performance evaluation
- Reward payment
- Restriction period

PSP = Performance Share Plan

CORPORATE SUSTAINABILITY

**REMUNERATION STATEMENT 2019** 

# **EMPLOYMENT TERMS OF THE PRESIDENT & CEO**

**kemira** 

#### EMPLOYMENT TERMS OF THE PRESIDENT & CEO AS OF DECEMBER 31, 2019

BASE SALARY AND BENEFITS	The annual base salary and benefits is EUR <b>707,620</b> , including car, mobile phone and supplementary pension.
INSURANCES	The President & CEO is entitled to insurances such as life and permanent disability, private accident, business travel, and directors' and officers' liability. The President & CEO participates in the company sickness fund.
PENSION	The President & CEO is entitled to a supplementary defined contribution pension plan. The supplementary pension is defined as 20% of annual base salary. The retirement age of the President & CEO is 63 years.
SHORT-TERM INCENTIVES	The President & CEO is entitled to a short-term incentive plan. The maximum bonus is 70% of the annual base salary.
LONG-TERM INCENTIVES	The President & CEO is entitled to a long-term incentive plan. Based on the terms of the share plan, the maximum reward is determined as a number of shares and a cash portion intended to cover taxes and the tax related costs arising from the reward.
TERMINATION	A mutual termination notice period of 6 months applies to the President & CEO. He is entitled to a severance pay of 12 months' salary in addition to the salary earned during the notice period, in case the company terminates his service.

# MAIN EMPLOYMENT TERMS OF THE MANAGEMENT BOARD AND DEPUTY CEO

**Insurances:** The members of the Management Board are entitled for life and permanent disability, private accident, business travel, and directors' and officers' liability insurances, and participate in the company sickness fund or other similar arrangement.

Pension: Except the President & CEO members of the Management Board who are employed by a Finnish Kemira company do not have any supplementary pension arrangements in addition to the statutory pensions. Members of the Management Board who are employed by a foreign Kemira company participate in pension systems based on statutory pension arrangements and market practices in their local countries.

**Incentives:** Members of the Management Board are eligible for short- and long-term incentive plans.

**Termination:** Depending on country practices, mutual termination notice period of 1 to 6 months applies to the members of the Management Board except for the President & CEO. In addition, a severance payment of 6 to 9 months' salary is paid to the member of the Management Board if the company terminates the employment agreement without a cause attributable to the person.

REMUNERATION STATEMENT 2019

# **BOARD OF DIRECTORS REMUNERATION**

According to the decisions made in the General Meeting 2019, the members of the Board of Directors are paid an annual fee and a fee per meeting. The members of the Board of Directors are not eligible for the short-term bonus plan or the long-term share incentive plan, or supplementary pension plans of Kemira Oyj.

The annual fees are as follows:

- the Chairman will receive EUR 92,000 per year,
- the Vice Chairman and the Chairman of the Audit Committee EUR 55,000 per year and
- the other members EUR 44,000 per year.

A fee payable for each meeting of the Board and its committees are as follows:

- EUR 600 for the members residing in Finland,
- EUR 1,200 for the members residing elsewhere in Europe and
- EUR 2,400 for the members residing outside Europe.

The meeting fees are to be paid in cash. Travel expenses are reimbursed according to Kemira's travel policy. In addition, the General Meeting decided that the annual fee shall be paid as a combination of the company's shares and cash in such a manner that 40% of the annual fee is paid with Kemira shares owned by the company or, if this is not possible, Kemira shares acquired from the securities market,

and 60% is paid in cash. The General Meeting decided that the shares will be transferred to the members of the Board of Directors within two weeks after the release of Kemira's interim report January 1–March 31, 2019.

The following amounts of shares were paid on May 8, 2019 as part of the annual fee decided by the Annual General Meeting 2019:

- the Chairman received 2,993 shares
- the Vice Chairman and Chairman of the Audit Committee
   1.789 shares
- the other members 1,431 shares.

There are no special terms or conditions associated with owning these shares.

# THE REMUNERATION OF THE BOARD OF DIRECTORS

	2019 (EUR)	2018 (EUR)
Jari Paasikivi, chairman	102,200	91,489
Kerttu Tuomas, vice chairman	62,800	57,087
Wolfgang Büchele	54,800	48,351
Shirley Cunningham	65,600	57,951
Kaisa Hietala	51,800	47,151
Timo Lappalainen	65,200	60,687
Total	402,400	362,716

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# Financial Statements 2019

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# **Board of Directors' Review 2019**

In 2019, Kemira Group's revenue increased by 3% to EUR 2,658.8 million (2,592.8) as sales price increases and currency exchange rates had positive impacts. Revenue in local currencies, excluding acquisitions and divestments, was stable.

Operative EBITDA increased 27% to EUR 410.0 million (323.1). In absolute terms, it increased by EUR 86.9 million, of which the adoption of the IFRS 16 standard contributed EUR 34.3 million. Operative EBITDA margin increased to 15.4% (12.5%).

EBITDA increased by 21% to EUR 382.3 million (314.8). The difference to operative EBITDA growth is explained by items affecting comparability, which were mainly caused by a provision for existing, old litigation and increased provisions for environmental liabilities related to a site closure in 2013.

EPS, diluted, increased by 23% to EUR 0.72 (0.58) mainly due to higher EBIT. The Board of Directors proposes a cash dividend of EUR 0.56 per share (0.53) to the Annual General Meeting 2020, totaling EUR 85 million (81). It is proposed that the dividend be paid in two installments.

#### **KEY FIGURES AND RATIOS**

EUR million	2019	2018
Revenue	2,658.8	2,592.8
Operative EBITDA	410.0	323.1
Operative EBITDA, %	15.4	12.5
EBITDA	382.3	314.8
EBITDA, %	14.4	12.1
Operative EBIT	224.0	173.8
Operative EBIT, %	8.4	6.7
EBIT	194.4	148.2
EBIT, %	7.3	5.7
Net profit for the period	116.5	95.2
Earnings per share, EUR	0.72	0.58

EUR million	2019	2018
Capital employed*	1,998.2	1,781.4
Operative ROCE*, %	11.2	9.8
ROCE*, %	9.7	8.3
Cash flow from operating activities	386.2	210.2
Capital expenditure excl. acquisition	201.1	150.4
Capital expenditure	204.1	193.7
Cash flow after investing activities	189.8	29.0
Equity ratio, % at period-end	42.6	43.5
Equity per share, EUR	7.98	7.80
Gearing, % at period-end	65.9	61.7
Personnel at period-end	5,062	4,915

Kemira adopted the IFRS 16 Leases standard on January 1, 2019. Further information regarding the standard change is available in Note 1 Group Accounting Policies.

Kemira provides certain financial performance measures (alternative performance measures) that are not defined by IFRS. Kemira believes that alternative performance measures followed by capital markets and Kemira management, such as organic growth (revenue growth in local currencies, excluding acquisitions and divestments), EBITDA, operative EBITDA, cash flow after investing activities as well as gearing, provide useful information about Kemira's comparable business performance and financial position. Selected alternative performance measures are also used as performance criteria in remuneration.

Kemira's alternative performance measures should not be viewed in isolation to the equivalent IFRS measures, and alternative performance measures should be read in conjunction with the most directly comparable IFRS measures. Definitions of the alternative performance measures can be found in the definitions of the key figures in this report, as well as at <a href="https://www.kemira.com">www.kemira.com</a> Investors > Financial information. All the figures in this report have been individually rounded, and consequently the sum of the individual figures may deviate slightly from the sum figure presented.

<sup>\*12-</sup>month rolling average (ROCE, % based on the EBIT).

# **FINANCIAL PERFORMANCE IN 2019**

**Revenue** increased by 3%, mainly due to higher sales prices in Industry & Water and a positive currency impact. Revenue in local currencies, excluding acquisitions and divestments, was stable.

	2019	2018		Organic	Currency	Acq. & div.
Revenue	EUR, million	EUR, million	$\Delta$ %	growth*,%	impact, %	impact, %
Pulp & Paper	1,522.9	1,520.2	0	-2	+2	+1
Industry & Water	1,135.9	1,072.6	6	+4	+2	0
Total	2,658.8	2,592.8	3	0	+2	0

<sup>\*</sup> Revenue in local currencies, excluding acquisitions and divestments

Geographically, the revenue split was as follows: EMEA (Europe, Middle East, Africa) 50% (52%), the Americas 40% (39%), and Asia Pacific 10% (9%).

**Operative EBITDA** increased by 27%, mainly due to higher sales prices.

Variance analysis, EUR million	Jan-Dec
Operative EBITDA, 2018	+323.1
Sales volumes	-30.8
Sales prices	+90.4
Variable costs	+21.7
Fixed costs	-34.0
Adoption of IFRS 16 accounting standard	+34.3
Currency exchange	+16.6
Others	-11.3
Operative EBITDA, 2019	+410.0

	2019	2018		2019	2018
Operative EBITDA	EUR, million	EUR, million	∆%	%-margin	%-margin
Pulp & Paper	218.3	191.7	14	14.3	12.6
Industry & Water	191.7	131.5	46	16.9	12.3
Total	410.0	323.1	27	15.4	12.5

**EBITDA** increased by 21%. The difference between it and operative EBITDA is explained by items affecting comparability. **Items affecting comparability** were mainly caused by a provision for existing, old litigation and increased provisions for environmental liabilities related to a site closure in 2013. In the previous year, items affecting comparability mainly included organizational restructuring costs.

Items affecting comparability, EUR million	2019	2018
Within EBITDA	-27.7	-8.3
Pulp & Paper	-25.8	-3.9
Industry & Water	-1.8	-4.4
Within depreciation, amortization and impairments	-1.9	-17.3
Pulp & Paper	0.0	-7.9
Industry & Water	-1.9	-9.4
Total items affecting comparability in EBIT	-29.6	-25.6

CORPORATE SUSTAINABILITY

BOARD OF DIRECTORS' REVIEW

**kemira** 

**Depreciation, amortization and impairments** increased to EUR 187.9 million (166.6). including the EUR 29.8 million (0.0) depreciation of right-of-use assets (IFRS 16) and EUR 18.5 million (15.7) amortization of the purchase price allocation. In 2018, depreciation, amortization and impairments included items affecting comparability of EUR -17.3 million related to closures of manufacturing units.

Operative EBIT increased by 29%, mainly due to higher sales prices. EBIT increased by 31%, and the difference between the two is explained by items affecting comparability.

Finance costs, net totaled EUR -39.7 million (-25.0), including interest costs related to lease liabilities. The year 2018 included a EUR 3.6 million gain from the sale of shares in power plant companies. Income taxes were EUR -38.2 million (-28.1) as a result of higher profit before taxes, with the reported tax rate being 25% (23%).

Net profit for the period increased by 22%, mainly due to higher EBIT.

# FINANCIAL POSITION AND CASH FLOW

Cash flow from operating activities in January-December increased to EUR 386.2 million (210.2). Cash flow after investing activities increased to EUR 189.8 million (29.0), mainly due to higher profitability and reduction of net working capital. In addition, EUR 15 million of excess capital from Kemira's supplementary pension fund in Finland was returned. The adoption of the IFRS 16 accounting standard increased cash flow after investing activities by EUR 28.4 million, which is now represented as part of net cash used in financing activities.

At the end of 2019, interest-bearing liabilities totaled EUR 955 million (886) including lease liabilities of EUR 134 million due to the adoption of the IFRS 16 accounting standard. Excluding the IFRS 16 impact, interest-bearing liabilities decreased by 66 million from the previous year. The average interest rate of the Group's interest-bearing loan portfolio, excluding leases, was 1.9% (1.9%), and the duration was 26 months (31). Fixed-rate loans accounted for 87% (79%) of net interest-bearing liabilities, including lease liabilities.

Short-term liabilities maturing in the next 12 months amounted to EUR 217 million. On December 31, 2019, cash and cash equivalents totaled EUR 143 million (145). On April 17, 2019 Kemira Oyj signed a EUR 400,000,000 five year multicurrency revolving credit facility, linked to Kemira's sustainability targets, with two one-year extension options. The credit facility was undrawn at the end of the year.

At the end of the period, Kemira Group's net debt was EUR 811 million (741), including lease liabilities of EUR 134 million (0) due to the adoption of the IFRS 16 accounting standard. The equity ratio was 43% (44%), while gearing was 66% (62%).

Kemira is exposed to transaction and translation currency risks. The Group's most significant transaction currency risks arise from the U.S. dollar, the Canadian dollar and the Swedish krona. At the end of the year, the U.S. dollar denominated exchange rate risk was approximately EUR 91 million, of which 47% was hedged on an average basis. The Canadian dollar denominated exchange rate risk against USD had an equivalent value of approximately EUR 56 million, of which 42 % was hedged on an average basis. The Canadian dollar's denominated exchange rate risk against EUR had an equivalent value of approximately EUR 25 million, of which 52% was hedged on an average basis. The denominated exchange rate risk of the Swedish krona against EUR had an equivalent value of approximately EUR 43 million, of which 72 % was hedged on an average basis. In addition, Kemira is exposed to smaller transaction risks mainly in relation to the Chinese renminbi, the Norwegian krona, Polish zloty, Great Britain pound, Russian rubble and the Brazilian real with the annual exposure in those currencies being approximately EUR 108 million.

As Kemira's consolidated financial statements are compiled in euros, Kemira is also subject to a currency translation risk to the extent to which the income statement and balance sheet items of subsidiaries located outside Finland are reported in a currency other than the euro. The most significant translation exposure on revenue and EBITDA derive from the U.S. dollar and the Canadian dollar. Strengthening of currencies against the euro would increase Kemira's revenue and EBITDA through a translation effect.





**CAPITAL EXPENDITURE** 

In January-December, capital expenditure, excluding acquisitions, increased by 34% to EUR 201.1 million (150.4). Capital expenditure can be broken down as follows: expansion capex 49% (29%), improvement capex 19% (36%), and maintenance capex 32% (35%). The largest expansion capital expenditures related to the added polymer capacity in the Netherlands, the new AKD sizing manufacturing site in China, expanded sodium chlorate capacity and expansion of a polymer facility in the USA.

### RESEARCH AND DEVELOPMENT

In January-December 2019, total research and development expenses were EUR 30.3 million (30.2), representing 1.1% (1.2%) of the Group's revenue.

Kemira's Research and Development is an enabler of growth and further differentiation. New product launches contribute to the efficiency and sustainability of customer processes and to improved profitability. Both Kemira's future market position and profitability depend on the company's ability to understand and meet current and future customer needs and market trends, as well as on its ability to innovate new, differentiated products and applications.

At the end of 2019, Kemira had 365 (366) patent families, including 1,681 (1,546) granted patents, and 1,087 (1,042) pending applications. During 2019, Kemira applied for 37 (34) new patents. Commercialization of five projects related to new products started in 2019, and three of them are designed to improve customer resource efficiency.

## **HUMAN RESOURCES**

At the end of the period, Kemira Group had 5,062 employees (4,915). Kemira had 786 employees in Finland (802), 1,759 people elsewhere in EMEA (1,777), 1,570 in the Americas (1,559), and 947 in APAC (777). The growth in APAC is related to the new manufacturing site in China.

# NON-FINANCIAL INFORMATION

CORPORATE SUSTAINABILITY

# **CORPORATE SUSTAINABILITY PRIORITIES**

Kemira has systematic procedures in place to evaluate and address economic, environmental and social impacts from its own operations and business relationships. Our corporate sustainability priorities are based on the most material impacts across our business model, on the increasing expectations of our customers, investors and other stakeholders, and on our commitment to the Kemira Code of Conduct and internationally agreed sustainability principles. Kemira is a signatory of The United Nations Global Compact, committing us to implement universal sustainability principles and to respect and promote human rights, implement decent work practices, reduce our environmental impact, and combat corruption. Kemira is also committed to operate according to the principles of Responsible Care®, a voluntary commitment created by the global chemical industry to drive continuous improvement and achieve excellence in environmental, health and safety and security performance.

Our management approach has three priority areas, which cover the six most material topics and their impact:

# Sustainable products and solutions

- · Product sustainability: Products improving our customers' sustainability, product design for use-phase resource efficiency.
- · Product stewardship: chemical safety management throughout the lifecycle of our products.

# Responsible operations and supply chain

- Responsible management of our operations to ensure staff safety and to protect our assets and environment. Key topics are Workplace safety and Climate change.
- Supplier management for risk and compliance management.

# People and integrity

- People: employee engagement and development of employee competence.
- Integrity: responsible business practices in our own operations and with our business partners.

Kemira measures progress in the priority areas through group-level key performance indicators (KPI) and targets that are approved by the Management Board and reviewed by the Board of Directors. The relevant management processes relating to material corporate sustainability issues are continuously developed and implemented as part of our integrated management system.

## SUSTAINABLE PRODUCTS AND SOLUTIONS

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Kemira is committed to ensuring the sustainability of our products and solutions. In 2018, we introduced a KPI to measure the share of revenue from products used to improve use-phase resource efficiency. This KPI provides a crucial linkage to our purpose and strategy.

Kemira's New Product Development (NPD) process evaluates the economic, environmental, and social impacts of any new product, compared to existing benchmarked solutions. Successful NPD projects must demonstrate both improved sustainability and business benefits at each decision gate to justify the project's continuation, and ultimately the product launch.

Kemira's product stewardship policy defines principles for the proactive management of the health, safety and environmental aspects of a product throughout its life cycle. We also work to find less hazardous and more sustainable alternatives for raw materials. Other measures include ensuring safe transportation, handling, storage and disposal of our products in the value chain.

#### RESPONSIBLE OPERATIONS AND SUPPLY CHAIN

Kemira is committed to ensuring responsible operations to protect our assets, our environment, employees, contractors, customers and communities. Globally, we aim to bring together all of our operations under the Kemira integrated management system. The Kemira management system defines the way our organization works through the set of policies, standards, procedures and processes. It also defines the requirements and accountabilities at each level of the organization. Kemira follows the principle that all operations under our Integrated Management System meet international standards for environment, health, safety, and quality. Our energy management system is certified to the ISO 50001:2001 standard.

Ensuring workplace safety is a key priority in all our operations. We strive for continuous improvement to reduce our environmental impacts. Kemira has renewed its commitment to climate action in 2019 by setting a new target to reduce by 30% combined scope 1 and 2 emissions by 2030, from a 2018 baseline of 936 thousand tons CO<sub>o</sub>e. Our long-term ambition is to be carbon neutral by 2045 for combined scope 1 and 2 emissions.

Kemira is committed to ensuring compliance with responsible business practices throughout our supply chain. Kemira's Code of Conduct for Business Partners (CoC-BP) sets out principles for responsible business conduct, respect for human rights and provision of appropriate working conditions, and environmental responsibility. Compliance with the Kemira CoC-BP is required by all our suppliers and business partners. Our strategic, critical, and large-spend suppliers are requested to participate in a sustainability assessment process sustainability evaluation based on the international sustainability standards of the Global Reporting Initiative, the United Nations Global Compact, and the ISO 26000 social responsibility guidance standard. Based on the results of the assessment, the suppliers are classified into risk categories and the necessary actions are defined. Suppliers with ongoing improvement plans are always reassessed the following year, and high-risk suppliers are audited.

#### PEOPLE AND INTEGRITY

CORPORATE SUSTAINABILITY

Culture and commitment to our employees are an important success factor in our business. Kemira's performance management process aligns our strategic targets with each employees' personal targets, competences and development plans. The process is a part of Kemira's leadership culture and it forms the backbone of our management system.

Our Code of Conduct is the foundation for our business conduct in Kemira. It sets the minimum standards of expected behavior for our employees and business partners. Kemira is committed to the principles of The Universal Declaration of Human Rights and the United Nations Global Compact, and we also expect our business partners to abide by these principles. Kemira principles of anti-corruption are included in the Code of Conduct. Kemira does not tolerate improper or corrupt payments made either directly or indirectly to a customer, government official or third party, including facilitation payments, improper



gifts, entertainment, gratuities, favors, donations or any other improper transfer of value. We engage only reputable sales representatives and other third parties who share the same commitment.

Code of Conduct training is mandatory for all our employees, and there are advisory, monitoring and reporting procedures in place to ensure proper accomplishment of the code. We maintain an ethics and compliance hotline for employees to enable them to report potential violations of the Code of Conduct or any other concerns.

Mandatory anti-bribery training is provided for selected groups of personnel who need to have a comprehensive understanding of Kemira's anti-corruption principles. Awareness of anti-corruption matters is delivered through our Code of Conduct training to all employees. Kemira has conducted an ethics and compliance risk assessment to evaluate corruption-related and bribery-related risks in its operations. There were no confirmed incidents of corruption or public legal cases regarding corruption in 2019.

### NON-FINANCIAL REPORTING

More detailed information is presented in Kemira Annual Report 2019, in the business overview and corporate sustainability sections. The non-financial disclosures are based on the Global Reporting Initiative disclosures, which are prepared in accordance with the GRI standards (2016) and externally assured by an independent third-party.

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BOARD OF DIRECTORS' REVIEW

# **CORPORATE SUSTAINABILITY PERFORMANCE**



Sustainable products and solutions



Responsible operations and supply chain

# PRODUCT SUSTAINABILITY AHEAD OF TARGET

Share of revenue from products used for use-phase resource efficiency. At least 50% of Kemira's revenue generated through products improving customers' resource efficiency.



# WORKPLACE SAFETY IN PROGRESS

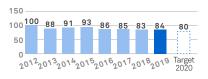
Achieve zero injuries in long term; TRIF\* 2.0 by the end of 2020.



\*TRIF = Number of Total Recordable Injury Frequency per million hours, Kemira + contractors

# CLIMATE CHANGE IN PROGRESS

Kemira Carbon Index ≤ 80 by end of 2020 (2012 = 100). This KPI is reported once a year.\*\*



\*\* At the end of 2019, Kemira set an ambition to be carbon neutral by 2045 and a new target of reducing combined scope 1 and 2 greenhouse gases by 2030, relative to 2018 levels.

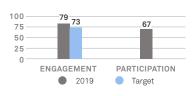


People and integrity

# EMPLOYEE ENGAGEMENT INDEX BASED ON MYVOICE SURVEY

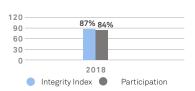
#### **IN PROGRESS**

Keep the index at or above the external industry norm.



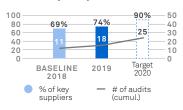
# INTEGRITY INDEX IN PROGRESS

New KPI to measure compliance with the Kemira Code of Conduct. The target is to maintain the Integrity Index level above the external industry norm.



# SUPPLIER MANAGEMENT IN PROGRESS

Share of direct key suppliers screened through sustainability assessments and audits (cumulative %). The target includes 5 sustainability audits for highest risk\*\*\* suppliers every year, and cumulatively 25 by 2020.

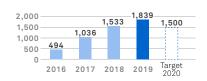


\*\*\* Suppliers with lowest sustainability assessment score

# LEADERSHIP DEVELOPMENT ACTIVITIES PROVIDED

AHEAD OF TARGET

Two leadership development activities per people in manager position during 2016–2020, the cumulative target is 1,500 by 2020.



# **SEGMENTS**

### **PULP & PAPER**

Pulp & Paper has unique expertise in applying chemicals and supporting pulp and paper producers in innovating and constantly improving their operational efficiency. The segment develops and commercializes new products to fulfill customer needs, ensuring the leading portfolio of products and services for bleaching of pulp as well as paper wet-end, focusing on packaging, board and tissue. Pulp & Paper is leveraging its strong application portfolio in North America and EMEA, while also building a strong position in the emerging Asian and South American markets.

EUR million	2019	2018
Revenue	1,522.9	1,520.2
Operative EBITDA	218.3	191.7
Operative EBITDA, %	14.3	12.6
EBITDA	192.4	187.8
EBITDA,%	12.6	12.4
Operative EBIT	99.2	91.6
Operative EBIT, %	6.5	6.0
EBIT	73.4	79.8
EBIT, %	4.8	5.2
Capital employed*	1,289.4	1,177.6
Operative ROCE*, %	7.7	7.8
ROCE*, %	5.7	6.8
Capital expenditure excl. M&A	109.7	85.1
Capital expenditure incl. M&A	112.5	128.4
Cash flow after investing activities	139.4	29.9

<sup>\*12-</sup>month rolling average

The segment's **revenue** was stable. Positive currency impact, higher sales prices and acquisition impact balanced the volume decline. Revenue in local currencies, excluding divestments and acquisitions, decreased by 2%. This was due to the closure of the non-core detergent business (ECOX), lower caustic soda sales prices (mainly a trading product) as well as lower volumes in process and functional chemicals.

In **EMEA**, revenue decreased by 5% to EUR 787.8 million (826.1), mainly due to the closure of the non-core detergent business (ECOX), lower caustic soda sales prices (mainly a trading product) and lower volumes, mainly in sizing chemicals.

In the **Americas**, revenue increased by 2% to EUR 498.7 million (488.3), mainly due to a positive currency impact. In local currencies, revenue declined due to North America, where sales volumes declined in process and functional chemicals, while in South America both sales prices and volumes were quite stable.

In **APAC**, revenue increased by 15% to EUR 236.4 million (205.8), mainly due to higher volumes. The demand for sizing chemicals was particularly strong. Currencies also had a positive impact.

**Operative EBITDA** increased by 14%, mainly due to higher sales prices and lower variable costs. Currencies also had a positive impact. **EBITDA** increased by 2%. The difference between it and operative EBITDA is explained by items affecting comparability, which were mainly caused by a provision for existing, old litigation and increased provisions for environmental liabilities related to a site closure in 2013.

Due to the adoption of the IFRS 16 accounting standard, fixed costs do not include operating lease expenses in 2019. The corresponding positive EBITDA impact in January-December amounted to EUR 14.1 million in the segment.



# **INDUSTRY & WATER**

Industry & Water supports municipalities and water-intensive industries in the efficient and sustainable use of resources. In water treatment, Kemira provides assistance in optimizing various stages of the water cycle. In oil and gas applications, our chemistries enable improved yield from existing reserves, as well as reduced water and energy use.

EUR million	2019	2018
Revenue	1,135.9	1,072.6
Operative EBITDA	191.7	131.5
Operative EBITDA, %	16.9	12.3
EBITDA	189.9	127.0
EBITDA, %	16.7	11.8
Operative EBIT	124.7	82.2
Operative EBIT, %	11.0	7.7
EBIT	121.0	68.5
EBIT, %	10.6	6.4
Capital employed*	708.2	603.4
Operative ROCE*, %	17.6	13.6
ROCE*, %	17.1	11.3
Capital expenditure excl. M&A	91.4	65.3
Capital expenditure incl. M&A	91.7	65.3
Cash flow after investing activities	128.7	52.5

<sup>\*12-</sup>month rolling average

The segment's **revenue** increased by 6%. Revenue in local currencies, excluding acquisitions and divestments, increased by 4%. Growth was driven by higher sales prices. Currency exchange rates had an impact of +2%.

Within the segment, revenue for the Oil & Gas business increased by 21% to EUR 291.8 million (241.9) due to higher sales prices and volumes. Currencies also had a positive impact. In the water treatment business, the focus on improving the product and market mix continued to lead to higher sales prices and expected decline in volumes. Currencies also had a positive impact.

In **EMEA**, revenue increased by 3% to EUR 551.9 million (534.3), driven by higher sales volumes for Chemical Enhanced Oil Recovery.

In the **Americas**, revenue increased by 10% to EUR 563.4 million (512.9), driven by higher sales prices in the North American water treatment business and in Oil & Gas business. Currencies also had a positive impact on revenue.

In **APAC**, revenue decreased by 19% to EUR 20.6 million (25.4) due to lower volumes in polymers.

**Operative EBITDA** increased by 46% as a result of higher sales prices, while variable costs increased slightly and sales volumes declined due to the focus on improving the product mix. **EBITDA** increased by 50%, and the difference between it and operative EBITDA is explained by items affecting comparability.

Due to the adoption of the IFRS 16 accounting standard, fixed costs do not include operating lease expenses in 2019. The corresponding positive EBITDA impact in January-December amounted to EUR 20.2 million in the segment.

# PARENT COMPANY'S FINANCIAL PERFORMANCE

Kemira Oyj's revenue increased to EUR 1,542.6 million (1,489.7) in 2019. EBITDA was EUR 131.2 million (49.1). EBITDA increased, mainly due to a decrease in materials and services. The parent company's financing income and expenses were EUR 87.3 million (119.6). Financing income and expenses decreased, mainly due to lower dividend distribution from Group companies. Net profit totaled EUR 93.5 million (132.5). The total capital expenditure was EUR 15.9 million (26.2), excluding investments in subsidiaries.

## **KEMIRA OYJ'S SHARES AND SHAREHOLDERS**

On December 31, 2019, Kemira Oyj's share capital amounted to EUR 221.8 million and the number of shares was 155,342,557. Each share entitles the holder to one vote at the Annual General Meeting.

At the end of December, Kemira Oyj had 33,345 registered shareholders (34,378 on December 31, 2018). Non-Finnish shareholders held 31.9% of the shares (27.4%), including nomineeregistered holdings. Households owned 15.6% of the shares (17.1%). Kemira held 2,693,111 treasury shares (2,832,297), representing 1.7% (1.8%) of all company shares.

Kemira Oyj's share price increased by 35% from the beginning of the year and closed at EUR 13.26 on the Nasdaq Helsinki at the end of December 2019 (9.85 on December 31, 2018). Shares registered a high of EUR 14.99 and a low of EUR 9.77 in January-December 2019, and the average share price was EUR 12.56. The company's market capitalization, excluding treasury shares, was EUR 2,024 million at the end of December 2019 (1,502).

In January-December 2019, Kemira Oyj's share trading turnover on the Nasdaq Helsinki was EUR 682 million (479 in January-December 2018). The average daily trading volume was 230,086 (175,444) shares. The total volume of Kemira Oyj's share trading in January-December 2019 was 74 million shares (68), 28% (35%) of which was executed on other trading platforms (BATS, Chi-X, Turquoise). Source: Nasdaq and Kemira.com.

#### **OWNERSHIP DECEMBER 31, 2019**

Owners	Shares and votes
Corporations	24.7%
Financial and insurance corporations	5.8%
General government	18.8%
Households	15.6%
Non-profit institutions	3.2%
Non-Finnish shareholders incl. nominee registered	31.9%

#### SHAREHOLDING BY NUMBER OF SHARES HELD DECEMBER 31, 2019

Number of shares	Number of sha- reholders	% of shareholders	Shares total	% of share and votes
1–100	9,062	27.2	515,810	0.3
101–500	13,572	40.7	3,694,319	2.4
501-1,000	5,036	15.1	3,882,545	2.5
1,001-5,000	4,760	14.3	9,969,756	6.4
5,001-10,000	516	1.5	3,785,723	2.4
10,001-50,000	301	0.9	5,982,477	3.9
50,001-100,000	40	0.1	2,997,175	1.9
100,001-500,000	41	0.1	8,434,637	5.4
500,001-1,000,000	6	0.0	4,306,171	2.8
1,000,001 -	11	0.0	111,773,944	72.0
Total	33,345	100.0	155,342,557	100.0



## LARGEST SHAREHOLDERS DECEMBER 31, 2019

	Shareholder	Number of shares	% of shares and votes
1	Oras Invest Ltd	31,278,217	20.1
2	Solidium Oy	15,782,765	10.2
3	Varma Mutual Pension Insurance Company	5,329,836	3.4
4	Ilmarinen Mutual Pension Insurance Company	4,118,851	2.7
5	Nordea Funds	2,558,202	1.7
6	Veritas Pension Insurance Company Ltd.	1,435,625	0.9
7	Oppiva Invest Oy	1,336,900	0.9
8	OP-Henkivakuutus Ltd.	1,262,134	0.8
9	Elo Mutual Pension Insurance Company	947,413	0.6
10	Säästöpankki Funds	946,672	0.6
11	Pohjola Fund Management	751,102	0.5
12	Nordea Life Insurance	730,166	0.5
13	Laakkonen Mikko Kalervo	600,000	0.4
14	The State Pension Fund	500,000	0.3
15	Paasikivi Pekka Johannes	434,000	0.3
	Kemira Oyj	2,693,111	1.7
	Nominee registered and foreign shareholders	49,593,969	31.9
	Others, Total	35,043,594	22.5
	Total	155,342,557	100.0

# **AGM DECISIONS**

# **ANNUAL GENERAL MEETING**

Kemira Oyj's Annual General Meeting was held on March 21, 2019 and confirmed the dividend of EUR 0.53. The dividend was paid out on April 5, 2019.

The AGM 2019 authorized the Board of Directors to decide on the repurchase of a maximum of 5,100,000 of the company's own shares ("Share Repurchase Authorization"). The Share Repurchase Authorization is valid until the end of the next Annual General Meeting. The Board had not exercised its authority by December 31, 2019.

The AGM 2019 also authorized the Board of Directors to decide to issue a maximum of 15,600,000 new shares and/or transfer a maximum of 7,800,000 of the company's own shares held by the company ("Share Issue Authorization"). The Share Issue Authorization is valid until May 31, 2020. The share issue authorization has been used, and shares owned by the Group were conveyed to members of the Board of Directors and key employees in connection with remuneration.

The AGM elected Ernst & Young Oy to serve as the company's auditor, with Mikko Rytilahti, Authorized Public Accountant, acting as the key audit partner.

# PROPOSALS OF THE NOMINATION BOARD TO THE ANNUAL GENERAL MEETING 2020

The Nomination Board proposes to the Annual General Meeting of Kemira Oyj that seven members (previously six) be elected to the Board of Directors, and that the present members – Wolfgang Büchele, Shirley Cunningham, Kaisa Hietala, Timo Lappalainen, Jari Paasikivi and Kerttu Tuomas – be re-elected as members of the Board of Directors. The Nomination Board proposes that Werner Fuhrmann be elected as new member of the Board of Directors. In addition, the Nomination Board proposes that Jari Paasikivi be re-elected as the Chairman of the Board of Directors and Kerttu Tuomas be re-elected as the Vice Chairman.

All the nominees have given their consent to the position and are independent of the company's significant shareholders, except for Jari Paasikivi, who is the Chairman of the Board of Directors of Oras Invest Oy, which owns over 10% of Kemira Oyj's shares.

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Werner Fuhrmann has extensive experience in the chemical industry in various positions at Akzo Nobel NV in 1979-2018. During 2012-2018, he was the CEO and Head of Akzo Nobel's Specialty Chemicals, and he retired from that position. Mr. Fuhrmann is an industrial advisor to private equity firms (among others at EQT Partners AB) and is a member of the Board of Ten Brinke Group. Werner Fuhrmann is a German citizen, and he has master's degree in economics from Mainz University.

The Nomination Board proposes that the remuneration paid to the members of the Board of Directors remain unchanged. The remuneration paid to the members of the Board of Directors would thus be as follows. The annual fees: for the Chairman EUR 92,000 per year, for the Vice Chairman and the Chairman of the Audit Committee EUR 55,000 per year, and for the other members EUR 44,000 per year. A fee payable for each meeting of the Board of Directors and the Board Committees would thus be as follows: EUR 600 for members residing in Finland, EUR 1,200 for members residing elsewhere in Europe, and EUR 2,400 for members residing outside Europe.

It is proposed that travel expenses be paid according to Kemira's travel policy.

In addition, the Nomination Board proposes to the Annual General Meeting that the annual fee be paid as a combination of the company's shares and cash in such a manner that 40% of the annual fee is paid in the company's shares owned by the company (or, if this is not possible, shares purchased from the market), and 60% is paid in cash. The shares will be transferred to the members of the Board of Directors and, if necessary, acquired directly on behalf of the members of the Board of Directors within two weeks from the release of Kemira's interim report January 1 – March 31, 2020. It is proposed that the meeting fees be paid in cash.

The Nomination Board has consisted of the following representatives: Annika Paasikivi (CEO of Oras Invest Oy) as the Chairman of the Nomination Board, Antti Mäkinen (CEO of Solidium Oy); Reima Rytsölä (Executive Vice-President, Varma Mutual Pension Insurance Company)

and Mikko Mursula (Chief Investment Officer, Ilmarinen Mutual Pension Insurance Company) as members of the Nomination Board: and Jari Paasikivi (Chairman of Kemira's Board of Directors) as an expert member.

# CORPORATE GOVERNANCE AND GROUP STRUCTURE

Kemira Oyi's corporate governance is based on the Articles of Association, the Finnish Companies Act, and Nasdaq Helsinki's rules and regulations on listed companies. Furthermore, the company complies with the Finnish Corporate Governance Code. The company's corporate governance is presented as a separate statement on the company's website.

#### **BOARD OF DIRECTORS**

CORPORATE SUSTAINABILITY

On March 21, 2019, the Annual General Meeting elected six members to the Board of Directors. The Annual General Meeting re-elected Wolfgang Büchele, Shirley Cunningham, Kaisa Hietala, Timo Lappalainen, Jari Paasikivi, and Kerttu Tuomas as members of the Board of Directors. Jari Paasikivi was re-elected as the Board's Chairman and Kerttu Tuomas was re-elected as the Vice Chairman, In 2019, Kemira's Board of Directors met 9 times with a 96% attendance rate.

Kemira Oyi's Board of Directors has appointed two committees: the Personnel and Remuneration Committee and the Audit Committee. The Personnel and Remuneration Committee is chaired by Jari Paasikivi and has Timo Lappalainen and Kerttu Tuomas as members. In 2019, the Personnel and Remuneration Committee met 5 times with a 93% attendance rate. The Audit Committee is chaired by Timo Lappalainen and has Kaisa Hietala and Jari Paasikivi as members. In 2019, the Audit Committee met 5 times with a 100% attendance rate.

#### **STRUCTURE**

January 11, 2019 Kemira signed an agreement to establish a joint venture – Kemira Yongsan Chemicals Co., Ltd ("NewCo") in Ulsan, Republic of Korea, with Yongsan Chemicals, a privatelyowned chemicals company in South Korea.



August 8, 2019 Kemira divested the entire share capital of Kemira Operon ("Operon"), a company providing water treatment plant operation services, to a newly established company called Operon Group Oy. In connection with this transaction, Operon Group will also acquire Aquazone and Suomen Ekolannoite, which will be merged into a new company. Pikespo Invest is the lead investor of the new company, and Kemira will own 10% of it.

## SHORT-TERM RISKS AND UNCERTAINTIES

## PRICE AND AVAILABILITY OF RAW MATERIALS AND COMMODITIES

Sufficient profitability is a crucial part of Kemira's strategy. Significant and sudden increase in the cost of raw materials, commodity, or logistics could place Kemira's profitability at risk if Kemira is not able to pass on such increases to product prices without delay. For instance, remarkable changes in oil and electricity prices could materially impact Kemira's profitability. Changes in the raw material supplier field, such as consolidation or decreasing capacity, may also increase raw material prices. Furthermore, significant demand changes in industries that are the main users of certain raw materials may lead to raw material price fluctuations. In 2019, the raw material cost escalations eased off after a longer period of significant continuous raw material cost increases. Especially the second half of 2019 was more stable. However, raw material prices continued to increase in parts of the business, and taking these into account, raw material sourcing remains in continuous focus.

Poor availability of certain raw materials may affect Kemira's production and also profitability if Kemira fails to prepare for this by mapping out alternative suppliers or opportunities for process changes. Raw material and commodity risks can be effectively monitored and managed with Kemira's centralized Sourcing Unit. Risk management measures include, for instance, forward-looking forecasting of key raw materials and commodities, synchronization of raw material purchase agreements and sales agreements, captive manufacturing of some of the critical raw materials, strategic investment in energy-generating companies, and hedging a portion of the energy and electricity spend. Kemira's joint venture with the fatty acid chloride producer Tiancheng in China is an example of helping to ensure the availability of key raw materials by backward integrating into the supply chain.

### **SUPPLIERS**

CORPORATE SUSTAINABILITY

The continuity of Kemira's business operations is dependent on accurate and good-quality supply of products and services. Kemira has currently in place numerous partnerships and other agreements with third-party product and service suppliers to secure its business continuity. Certain products used as raw materials are considered critical as the purchase can be made economically only from a sole or single source. In the event of a sudden and significant loss or interruption in such supply of raw material, Kemira's operations could be impacted, and this could have further negative effects on Kemira. Ineffective procurement planning, supply source selection, and contract administration, as well as inadequate supplier relationship management, create a risk of Kemira not being able to fulfill its promises to customers.

Kemira continuously aims to identify, analyze, and engage third-party suppliers in a way that ensures security of supply and competitive pricing of the end products and services. Collaborative relationships with key suppliers are developed in order to uncover and realize new value and reduce risk. Supplier performance is also regularly monitored as a part of the supplier performance management process. Due to the high risk environment related to suppliers of the chemical industry, risk management and mitigation in this area is of continuous high focus.

#### **HAZARD RISKS**

Kemira's production activities involve many hazard risks, such as fires and explosions, machinery breakdowns, natural catastrophes, exceptional weather conditions, environmental incidents, and the consequent possible resulting liabilities, as well as the employee health and safety risks. These risk events could derive from several factors, including also but not limited to unauthorized IT system access by malicious intruder causing possible damage to the systems and consequent financial losses. A systematic focus on achieving set targets, certified management systems, efficient hazard prevention programs, promotion of active safety culture, adequate maintenance, and competent personnel play a central role in managing these hazard risks. In addition, Kemira has several insurance programs that protect the company against financial impacts of hazard risks.

# **CHANGES IN CUSTOMER DEMAND**

Significant unforeseen decline in the use of certain chemicals (e.g. chemicals for packaging and board production) or in the demand of customers' products and operations could have a negative impact on Kemira's business. Significant decline in certain raw material and utility prices (e.g. oil, gas, and metal) may shift customers' activities in areas where less chemicals are needed. Also, increased awareness of and concern about climate change and more sustainable products may change customer demands, for instance, in favor of water treatment technologies with lower chemical consumption. On the other hand, possible capacity expansions by customers could increase the chemical consumption and challenge Kemira's current production capacity.

In order to manage and mitigate this risk, Kemira systematically monitors leading and early warning indicators that focus on market development. Kemira has also continued to focus on the sustainability of its business and is further improving the coordination and cooperation between the Business Development, R&D, and Sales units in order to better understand the future needs and expectations of its customers. Timely capital investments as well as continuous discussions and follow-ups with customers ensure Kemira's ability to respond to changes in demand. Kemira's geographic and customer industry diversity also provides partial protection against the risk of changed customer demands.

### **ECONOMIC CONDITIONS AND GEOPOLITICAL CHANGES**

Uncertainties in the global economic and geopolitical development are considered to include direct or indirect risks, such as a lower-growth period in the global GDP and possible unexpected trade-related political decisions, both of which could have unfavorable impacts on the demand for Kemira's products. Certain political actions or changes, especially in countries which are important to Kemira, could cause business interference or other adverse consequences. Current examples of these risks are related to Brexit and trade wars.

Weak economic development may result in customer closures or consolidations, resulting in a diminishing customer base. The liquidity of Kemira's customers could become weaker, resulting in increased credit losses for Kemira. Unfavorable market conditions may also increase the availability and price risk of certain raw materials. During the second half of

2019, some uncertainty regarding economic development was visible, which resulted in some changes in projected growth rates and expansions in cyclical businesses e.g. in parts of the Pulp & Paper market. The recent outbreak of corona virus in China and possible extended strikes in Finland could create near-term risks to customer demand, or our ability to run our operations.

Kemira's geographical and customer industry diversity provides only partial protection against these risks. Kemira continuously monitors geopolitical movements and changes and aims to adjust its business accordingly. For example, the Brexit related risk has been continuously monitored, and during 2018-2019 lots of preparations and actions were taken accordingly, and the risk has hence been mitigated. Trade war related risks are actively monitored and taken into account.

## COMPETITION

CORPORATE SUSTAINABILITY

Kemira operates in a rapidly changing and competitive business environment that represents a considerable risk to meeting its goals. New players seeking a foothold in Kemira's key business segments may use aggressive means as a competitive tool, which could affect Kemira's financial results. Major competitor or customer consolidations could change the market dynamics and possibly also change Kemira's market position.

Kemira is seeking growth in product categories that are less familiar and where new competitive situations prevail. In the long-term, completely new types of technology may considerably change the current competitive situation. This risk is managed both at Group and segment levels through continuous monitoring of the competition. The company aims at responding to its competition with the active management of customer relationships and continuous development of its products and services to further differentiate itself from the competitors and be competitive.

#### **ACQUISITIONS**

Acquisitions are one potential way to reach corporate goals and strategies, in addition to organic growth. Consolidations are driven by chemical manufacturers' interests in realizing synergies and establishing footholds in new markets. However, the integration as such

CORPORATE SUSTAINABILITY

BOARD OF DIRECTORS' REVIEW

of acquired businesses, operations, and personnel also involves risks. If integration is unsuccessful, results may fall short of targets for such acquisitions.

Kemira has created M&A procedures and established Group level-dedicated resources to actively manage merger and acquisition activities and to support the execution of its business transactions. In addition, external advisory services are being used to screen potential merger and acquisition targets and to help execute transactions and post-merger integration.

### **INNOVATION AND R&D**

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Kemira's Research and Development is a critical enabler for organic growth and further differentiation. Kemira's future market position and profitability depend on its ability to understand and meet current and future customer needs and market trends, and its ability to innovate new differentiated products and applications. Furthermore, new product launches contribute to the efficiency and sustainability of Kemira's or its customers' processes, as well as to the improved profitability. Failure to innovate or focus on new disruptive technologies and products, or to efficiently commercialize new products or service concepts may result in non-achievement of growth targets.

Innovation and R&D related risks are being managed through efficient R&D portfolio management in close collaboration between R&D and the two business segments. There is close coordination and cooperation between Business Development, R&D, Sales and Marketing units in order to better understand the future needs and expectations of Kemira's customers. With continuous development of innovation processes Kemira aims towards more stringent project execution. Kemira maintains increased focus towards the development of more differentiated and sustainable products and processes, and is also continuously monitoring sales of its new products and applications.

### **CHANGES IN LAWS AND REGULATIONS**

Kemira's business is subject to various laws and regulations, which have relevance in the development and implementation of Kemira's strategy. Laws and regulations can generally be considered as an opportunity for Kemira as regulation drives for example the treatment of water. However, certain legislative initiatives supporting, for instance, the use of biodegradable raw materials or biological water treatment, limiting the use of aluminum, may also have a negative impact on Kemira's business. Significant changes, for instance, also in chemical, environmental or transportation laws and regulations may impact Kemira's profitability through an increase in production and transportation costs. At the same time, such changes may also create new business opportunities for Kemira.

Inclusion of new substances into the REACH authorization process may also bring further requirements to Kemira, where failure to obtain the relevant authorization could impact Kemira's business. In addition, the changes in import/export and customs-related regulation create needs for monitoring and mastering global trade compliance in order to ensure for instance, compliant product importation.

Kemira continuously follows regulatory developments in order to maintain the awareness of proposed and upcoming changes of those laws and regulations which may have an impact, for instance, on its sales, production, and product development needs. Kemira has established an internal process to manage substances of potential concern and to create management plans for them. These plans cover, for example, the possibilities to replace certain substances if those would be subject to stricter regulation. Kemira has also increased the focus and resources in the management of global trade compliance.

Regulatory effects are also systematically taken into consideration in strategic decision making. Kemira takes an active role in regulatory discussions whenever justified from the perspective of the industry or business. Currently, for example, there is lots of regulatory discussions ongoing in the EU as the EU is undergoing a major review of its water legislation and directives. This may have a positive demand related impact for Kemira, due to the need for water to be treated more carefully.

#### TALENT MANAGEMENT

To secure competitiveness and growth, as well as to improve operational efficiency, it is essential to attract and retain personnel with the right skills and competences (e.g. R&D, sales, IT, customer service and marketing competence). Kemira is continuously identifying high potentials and key competencies for future needs. By systematic development and

improvement of compensation schemes, learning programs, and career development programs, Kemira aims to ensure the continuity of skilled personnel also in the future.

A detailed account of the Kemira's risk management principles is available on the company's website at **www.kemira.com**. Financial risks are also described in the Notes to the Financial Statements.

## DIVIDEND AND DIVIDEND POLICY

On December 31, 2019, Kemira Oyj's distributable funds totaled EUR 848,948,241 of which net profit for the period was EUR 93,521,333. No material changes have taken place in the company's financial position after the balance sheet date.

Kemira Oyj's Board of Directors proposes to the Annual General Meeting to be held on March 25, 2020 that a dividend of EUR 0.56 per share totaling EUR 85 million shall be paid on the basis of the adopted balance sheet for the financial year ended December 31, 2019. The dividend will be paid in two installments. The first installment of EUR 0.28 per share will be paid to a shareholder who is registered in the company's shareholder register maintained by Euroclear Finland Oy on the record date for the dividend payment, March 27, 2020. The Board of Directors proposes that the first installment of the dividend be paid out on April 7, 2020. The second installment of EUR 0.28 per share will be paid in November 2020. The second installment will be paid to a shareholder who is registered in the company's shareholder register maintained by Euroclear Finland Oy on the record date for the dividend payment. The Board of Directors will decide the record date and the payment date for the second installment at the meeting scheduled for October 26, 2020. According to the current rules of Euroclear Finland, the record date would then be October 28, 2020, and the dividend payment date November 4, 2020, at the earliest.

Kemira's dividend policy aims to pay a stable and competitive dividend.

\*Previously Kemira referred to these three financial targets as mid-to-long term financial targets, but will refer to them only as financial targets going forward.

# **OUTLOOK FOR 2020**

CORPORATE SUSTAINABILITY

Kemira expects its operative EBITDA (2019: EUR 410 million) to increase from the prior year.

# FINANCIAL TARGETS\*

Kemira aims for above-market revenue growth with an operative EBITDA margin of 15-17%. The target for gearing is below 75%.

Helsinki, February 10, 2020 Kemira Oyj Board of Directors

All forward-looking statements in this review are based on the management's current expectations and beliefs about future events, and actual results may differ materially from the expectations and beliefs such statements contain.

CONSOLIDATED FINANCIAL STATEMENTS (IFRS) | PART OF THE AUDITED FINANCIAL STATEMENTS 2019

# Consolidated **Income Statement**

2019 58.8 6.4 83.0 0.0 82.3 87.9	d 31 December 2018 2,592.8 14.8 -2,292.8 0.0 314.8
58.8 6.4 83.0 0.0 82.3	2,592.8 14.8 -2,292.8 0.0
6.4 83.0 0.0 82.3	14.8 -2,292.8 0.0
0.0 82.3	0.0
82.3	
	314 8
87.9	517.0
	-166.6
94.4	148.2
3.9	8.6
42.2	-33.4
-1.4	-0.1
39.7	-25.0
54.7	123.3
38.2	-28.1
16.5	95.2
10.2	89.1
6.3	6.1
16.5	95.2
0.72	0.58
0.72	0.58
- 1 -; 1	-42.2 -1.4 -39.7 154.7 -38.2 116.5

The above Consolidated Income Statement should be read in conjunction with the accompanying notes.

# **Consolidated Comprehensive Income**

_	Year ende	d 31 December
EUR million Note	2019	2018
Net profit for the period	116.5	95.2
Other comprehensive income		
Items that may be reclassified subsequently to profit or loss		
Exchange differences in translating foreign operations	7.8	0.2
Cash flow hedges	-15.0	17.5
Items that will not be reclassified subsequently to profit or loss		
Other shares	13.4	-5.9
Remeasurements of defined benefit plans	-5.4	10.1
Other comprehensive income for the period, net of tax 2.8.	0.7	21.8
Total comprehensive income for the period	117.2	117.0
Total comprehensive income attributable to		
Equity owners of the parent company	110.7	111.4
Non-controlling interests 6.2.	6.5	5.6
Total comprehensive income for the period	117.2	117.0

Items in the Consolidated Statement of Comprehensive Income are disclosed net of tax. The income tax relating to each component of other comprehensive income is disclosed in Note 2.8. Other comprehensive income.

The above Consolidated Comprehensive Income should be read in conjunction with the accompanying notes.

# **Consolidated Balance Sheet**

		As at 31 December		
EUR million	Note	2019	2018	
ASSETS				
NON-CURRENT ASSETS				
Goodwill	3.1.	515.8	512.5	
Other intangible assets	3.2.	95.5	128.6	
Property, plant and equipment	3.3.	1,005.1	938.3	
Right-of-use assets 1)	3.4.	136.2	0.0	
Investments in associates	6.2.	2.8	0.7	
Other shares	3.5.	245.2	228.4	
Deferred tax assets	4.4.	35.7	28.2	
Other investments	5.4.	2.0	2.3	
Receivables of defined benefit plans	4.5.	51.8	61.8	
Total non-current assets		2,090.1	1,900.7	
CURRENT ASSETS				
Inventories	4.1.	260.6	283.8	
Interest-bearing receivables	4.2.	0.2	0.2	
Trade receivables and other receivables	4.2.	378.8	420.2	
Current income tax assets		18.2	13.9	
Cash and cash equivalents	5.4.	143.1	144.9	
Total current assets		800.9	863.1	
Total assets		2,891.0	2,763.8	

<sup>1)</sup> From 2019 onwards, right-of-use assets in accordance with IFRS 16 Leases have been disclosed on a separate line in the balance sheet.

The above Consolidated Balance Sheet should be read in conjunction with the accompanying notes.

		As at 31 D	ecember
EUR million	Note	2019	2018
EQUITY AND LIABILITIES			
EQUITY			
Equity attributable to equity owners of the parent company			
Share capital		221.8	221.8
Share premium		257.9	257.9
Fair value and other reserves		108.5	110.2
Unrestricted equity reserve		196.3	196.3
Translation differences		-39.5	-47.1
Treasury shares		-18.1	-19.1
Retained earnings		490.9	469.6
Total equity attributable to equity owners of the parent			
company	5.2.	1,217.7	1,189.6
Non-controlling interests	6.2.	13.3	12.9
Total equity		1,231.0	1,202.5
NON-CURRENT LIABILITIES			
Interest-bearing liabilities	5.3.	737.9	646.3
Other liabilities	5.4.	8.3	29.0
Deferred tax liabilities	4.4.	67.8	71.1
Liabilities of defined benefit plans	4.5.	93.3	81.2
Provisions	4.6.	29.1	29.6
Total non-current liabilities		936.4	857.3
CURRENT LIABILITIES			
Interest-bearing liabilities	5.3.	216.6	240.0
Trade payables and other liabilities	4.3.	455.7	439.1
Current income tax liabilities		28.7	15.6
Provisions	4.6.	22.6	9.2
Total current liabilities		723.6	703.9
Total liabilities		1,660.0	1,561.2
Total equity and liabilities		2,891.0	2,763.8

**FINANCIAL STATEMENTS** 

CONSOLIDATED FINANCIAL STATEMENTS (IFRS) | PART OF THE AUDITED FINANCIAL STATEMENTS 2019

# **Consolidated Statement of Cash Flow**

EUR million No	lote	2019	2018
CASH FLOW FROM OPERATING ACTIVITIES			
Net profit for the period		116.4	95.2
Adjustments for			
Depreciation, amortization and impairments	2.4.	187.9	166.6
Income taxes	2.6.	38.2	28.1
Finance costs, net	2.5.	39.7	25.0
Share of the results of associates	6.2.	0.0	0.0
Other adjustments 1)		36.0	0.0
Cash flow before change in net working capital		418.3	314.8
Change in net working capital			
Increase (-) / decrease (+) in inventories		19.4	-64.7
Increase (-) / decrease (+) in trade and other receivables		20.5	8.5
Increase (+) / decrease (-) in trade payables and other liabilities		5.5	5.1
Change in net working capital		45.3	-51.1
Cash flow from operations before financing items and taxes		463.5	263.7
Interests paid		-35.2	-26.9
Interests received		3.4	3.7
Other finance items, net		-6.7	-6.8
Dividends received		0.0	0.1
Income taxes paid		-38.8	-23.6
Net cash generated from operating activities		386.2	210.2

<sup>1)</sup> Other adjustments relate mainly to surplus return of EUR 15 million paid by Pension Fund Neliapila and non-cash adjustments in provisions.

<sup>2)</sup> From 2019 onwards, payments for lease liabilities in accordance with IFRS 16 Leases are disclosed in the cash flow from financing activities and interest related to these is included in cash flows from operating activities. In 2018, the lease payments in accordance with IAS 17 were fully disclosed in the cash flow from operating activities. However, the adoption of IFRS 16 has no impact on the last line of the cash flow statement, net increase / decrease in cash and cash equivalents.

EUR million	Note	2019	2018
CASH FLOW FROM INVESTING ACTIVITIES			
Purchases of subsidiaries and asset acquisitions, net of cash acquired		0.0	-43.3
Capital expenditure in associated company		-2.7	0.0
Capital expenditure in property, plant and equipment and intangible assets		-201.1	-150.4
Decrease (+) / increase (-) in loan receivables		0.1	5.2
Proceeds from sale of subsidiaries, net of cash disposed		4.5	2.5
Proceeds from sale of associates and paid-in-capital from associates		0.0	4.3
Proceeds from sale of other shares and capital repayments		0.0	0.2
Proceeds from sale of property, plant and equipment, and intangible assets		3.2	0.3
Net cash used in investing activities		-196.3	-181.3
CASH FLOW FROM FINANCING ACTIVITIES			
Proceeds from non-current interest-bearing liabilities (+)	5.1.	40.1	96.2
Repayments of non-current interest-bearing liabilities (-)	5.1.	-110.3	-69.2
Repayments of non-current non-interest-bearing liabilities (-)		-10.7	0.0
Short-term financing, net increase (+) / decrease (-)	5.1.	2.9	10.3
Repayments of lease liabilities 2)		-28.4	0.0
Dividends paid		-86.9	-87.3
Net cash used in financing activities		-193.2	-50.1
Net increase (+) / decrease (-) in cash and cash equivalents		-3.4	-21.1
Cash and cash equivalents on Dec 31		143.1	144.9
Exchange gains (+) / losses (-) in cash and cash equivalents		1.5	-0.1
Cash and cash equivalents on Jan 1		144.9	166.1
Net increase (+) / decrease (-) in cash and cash equivalents		-3.4	-21.1

The above Consolidated Statement of Cash Flow should be read in conjunction with the accompanying notes.

CONSOLIDATED FINANCIAL STATEMENTS (IFRS) | PART OF THE AUDITED FINANCIAL STATEMENTS 2019

# Consolidated Statement of Changes in Equity

Equity attribut	table to equit	y owners of t	the parent c	ompany

	Equity attributable to equity owners of the parent company									
EUR million	Share capital	Share premium	Fair value and other reserves	Unrestricted equity reserve	Exchange differences	Treasury shares	Retained earnings	Total	Non- controlling interests	Total equity
Equity on January 1, 2019	221.8	257.9	110.2	196.3	-47.1	-19.1	469.6	1,189.6	12.9	1,202.5
Equity on January 1, Change in accounting policy (IFRS 16) 1)	_	_	_		_	_	-4.9	-4.9	_	-4.9
Restated equity on January 1, 2018	221.8	257.9	110.2	196.3	-47.1	-19.1	464.7	1,184.7	12.9	1,197.6
Net profit for the period	_	_	_	_	_	_	110.2	110.2	6.3	116.5
Other shares	_	_	13.3	_	_	_	0.1	13.4	_	13.4
Exchange differences in translating foreign operations	_	_	_	_	7.6	_	_	7.6	0.2	7.8
Cash flow hedges	_	_	-15.0	_	_	_	_	-15.0	_	-15.0
Remeasurements of defined benefit plans	_	_	_		_		-5.4	-5.4	_	-5.4
Total comprehensive income	_	_	-1.7	_	7.6	_	104.9	110.7	6.5	117.2
Transactions with owners										
Dividends paid	_	_	_	_	_	_	-80.9	-80.9	-6.0	-86.9
Treasury shares issued to the target group of a share-based incentive plan	_	_	_	_	_	1.0	_	1.0	_	1.0
Treasury shares issued to the Board of Directors	_	_	_	_	_	0.1	_	0.1	_	0.1
Treasury shares returned	_	_	_	_	_	-0.1	_	-0.1	_	-0.1
Share-based payments	_	_	_	_	_	_	2.2	2.2	_	2.2
Total transactions with owners	_	_	_	_	_	1.0	-78.7	-77.1	-6.0	-83.7
Equity on December 31, 2019	221.8	257.9	108.5	196.3	-39.5	-18.1	490.9	1,217.7	13.3	1,231.0

<sup>1)</sup> On January 1, 2019, Kemira adopted IFRS 16 Leases standard. As a result of adoption [FRS 16, retained earnings in equity were adjusted by EUR -4.9 million. More information on the impact of the IFRS 16 adoption can be found in this Consolidated Financial Statement on Note 1. Group's Accounting Policies section.

**FINANCIAL STATEMENTS** 

CONSOLIDATED FINANCIAL STATEMENTS (IFRS) | PART OF THE AUDITED FINANCIAL STATEMENTS 2019

	Equity attributable to equity owners of the parent company									
EUR million	Share capital	Share premium	Fair value Share and other		Exchange differences	•	Retained earnings	Total	Non- controlling interests	Total equity
Equity on January 1, 2018	221.8	257.9	98.7	196.3	-47.7	-20.1	452.1	1,159.0	13.8	1,172.8
Change in accounting policy (IFRS 9 and IFRS 2) 2)	_	_	_	_	_	_	-0.2	-0.2	_	-0.2
Restated equity on January 1, 2018	221.8	257.9	98.7	196.3	-47.7	-20.1	451.9	1,158.8	13.8	1,172.6
Net profit for the period	_	_	_	_	_	_	89.1	89.1	6.1	95.2
Other shares	_	_	-5.9	_	_	_	_	-5.9	_	-5.9
Exchange differences in translating foreign operations	_	_	_	_	0.6	_	_	0.6	-0.4	0.2
Cash flow hedges	_	_	17.5	_	_	_	_	17.5	_	17.5
Remeasurements of defined benefit plans	_	_	_	_	_	_	10.1	10.1	_	10.1
Total comprehensive income	_	_	11.5	_	0.6	_	99.3	111.4	5.6	117.0
Transactions with owners										
Dividends paid	_	_	_	_	_	_	-80.8	-80.8	-6.5	-87.3
Treasury shares issued to the target group of a share-based incentive plan	_	_	_	_	_	1.0	_	1.0	_	1.0
Treasury shares issued to the Board of Directors	_	_	_	_	_	0.1	_	0.1	_	0.1
Treasury shares returned	_	_	_	_	_	0.0	_	0.0	_	0.0
Share-based payments	_	_	_	_	_	_	-0.8	-0.8	_	-0.8
Total transactions with owners	_	_	_	_	_	1.1	-81.6	-80.5	-6.5	-87.0
Equity on December 31, 2018	221.8	257.9	110.2	196.3	-47.1	-19.1	469.6	1,189.6	12.9	1,202.5

<sup>&</sup>lt;sup>2)</sup> Kemira adopted IFRS 15 Revenue from Contracts with Customers and IFRS 9 Financial Instruments standards and the amendments to the IFRS 2 Share-based Payments standard. As a result of the changes in the standards, retained earnings in equity were adjusted on January 1, 2018. The IFRS 15 standard did not change Kemira's revenue recognition principles and thus did not result in any adjustments in retained earnings. IFRS 9 standard mainly impacts Kemira's valuation of loan receivables and credit losses and recognition of trade receivables. Due to the change in the accounting policy, retained earnings were adjusted for a total of EUR -1.0 million. When adopting the amendments to the IFRS 2 standard, Kemira classified share-based payment arrangements as equity-settled in its entirety and reclassified the liability related to the share-based payment arrangement in the retained earnings in equity. As a result of the change in the accounting policy, an adjustment of EUR 0.8 million has been recognized in the retained earnings. The total effect on equity from loan receivables and share-based payments is EUR -0.2 million including the deferred tax effect.

The above Consolidated Statement of Changes in Equity should be read in conjunction with the accompanying notes.

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# 1. THE GROUP'S ACCOUNTING POLICIES FOR THE CONSOLIDATED FINANCIAL STATEMENTS

## **GROUP PROFILE**

Kemira is a global chemicals company serving customers in water-intensive industries. The company provides expertise in applications and chemicals that improve customers' efficient use of water, energy and raw materials. Kemira's two segments Pulp & Paper and Industry & Water focus on customers in the pulp & paper, oil & gas, mining and water treatment industries respectively.

The Group's parent company is Kemira Oyj, domiciled in Helsinki, Finland, and its registered address is Energiakatu 4, FI-00180 Helsinki, Finland. The parent company's shares are listed on Nasdaq Helsinki Oy. A copy of the Consolidated Financial Statements is available at **www.kemira.com** or at Energiakatu 4, FI-00180 Helsinki, Finland.

The Board of Directors of Kemira Oyj has approved the Financial Statements for publication at its meeting on February 10, 2020. Under the Finnish Limited Liability Companies Act, the shareholders may accept or reject the Financial Statements at the General Meeting of Shareholders held after their publication. The meeting also has the power to make a decision to amend the Financial Statements.

# BASIS OF PREPARATION FOR THE CONSOLIDATED FINANCIAL STATEMENTS

The Group has prepared its Consolidated Financial Statements in accordance with International Financial Reporting Standards (IFRS) and its interpretations (IFRIC), adopted by the European Union. The consolidated financial statements have been prepared in accordance with IFRS standards and IFRIC Interpretations effective on December 31, 2019. The Notes to the Consolidated Financial Statements also comply with the requirements of the Finnish accounting and corporate legislation that supplement the IFRS regulations.

The Consolidated Financial Statements are presented in EUR million and have been prepared based on the historical cost, except for the items measured at fair value through other

comprehensive income including unlisted PVO/TVO shares, financial assets and liabilities at fair value through profit or loss, and share-based payments on the grant date.

All individual figures presented in the Consolidated Financial Statements have been rounded to the nearest exact figure. Therefore, the sum of the individual figures may deviate from the sum figure presented in the Consolidated Financial Statements. The key figures are calculated using exact values.

# NEW, AMENDED IFRS STANDARDS AND IFRIC INTERPRETATIONS INTO EFFECTIVE IN 2019

The group has applied the following standards and amendments for the first time for its annual reporting period commencing 1 January 2019:

- IFRS 16 Leases
- Prepayment Features with Negative Compensation Amendments to IFRS 9
- Long-term Interests in Associates and Joint Ventures Amendments to IAS 28
- Annual Improvements to IFRS Standards 2015 2017 Cycle
- Plan Amendment, Curtailment or Settlement Amendments to IAS 19
- IFRIC 23 Uncertainty over Income Tax Treatments

The Group has changed its accounting policies as a result of adopting IFRS 16. This is disclosed below in section IFRS 16 Leases and in note 3.4. The other amendments listed above did not have any impact on the amounts recognized in prior periods and are not expected to significantly affect the next financial period.

Certain new accounting standards and interpretations have been published. These are not mandatory for reporting periods ending December 31, 2019 and have not been early adopted by the Group. These amendments are not expected to have a material impact on the Group in the next financial period.

## **IFRS 16 Leases**

The Group adopted IFRS 16 standard on January 1, 2019 using a modified retrospective approach, having the right-of-use asset as being equal to lease liability. The reclassifications and adjustments arising from IFRS 16 were recognized in the opening balance on January 1, 2019. The comparative figures were not restated on date of transition to IFRS 16. In 2019, the key figures (except revenue and capital expenditure) of Income Statements, Balance Sheet and cash flow have been impacted by the adoption of the IFRS 16.

The Group elected to apply the practical expedients of IFRS 16 within its accounting policy and has excluded short-term leases, with a lease term less than 12 months, and leases of low value. The Group mainly leases land area, buildings and transportation equipment. Lease contracts are typically for fixed periods and some contracts have options to extend the lease period. The extension option is included in the IFRS 16 lease liability if it is reasonably certain that the option will be exercised.

On the transition date of January 1, 2019, IFRS 16 lease liabilities were measured at the present value of the remaining lease payments using incremental borrowing rates (IBR) as discount rate determined by Kemira. The weighted-average IBR for IFRS 16 lease liabilities was 5.1%. The following table presents a bridge calculation of lease liabilities from leases under IAS 17 operating leases to the IFRS 16 leases:

#### RECONCILIATION CALCULATION OF LEASE LIABILITY

EUR million	
Operating lease commitments under IAS 17 on December 31, 2018	205
Short-term leases	-6
Low value leases	-3
Other items	-11
Total	-20
Discounting impact	-59
Lease liability under IFRS 16 recognized on January 1, 2019	126

The IFRS 16 impact on the opening balance sheet as of January 1, 2019 is presented in the calculation.

#### **CONSOLIDATED BALANCE SHEET**

EUR million	31.12.2018	IFRS 16 impact	Opening balance sheet 1.1.2019
ASSETS			
Non-current assets			
Goodwill	512.5		512.5
Other intangible assets	128.6	-10.6	118.0
Property, plant and equipment	938.3		938.3
Right-of-use assets	0.0	129.3	129.3
Investments in associates	0.7		0.7
Other shares	228.4		228.4
Deferred tax assets	28.2		28.2
Other investments	2.3		2.3
Receivables of defined benefit plans	61.8		61.8
Total non-current assets	1,900.7	118.7	2,019.4
Current assets			
Inventories	283.8		283.8
Interest-bearing receivables	0.2		0.2
Trade receivables and other receivables	420.2	-0.7	419.5
Current income tax assets	13.9		13.9
Cash and cash equivalents	144.9		144.9
Total current assets	863.1	-0.7	862.4
Total assets	2,763.8	118.0	2,881.8

			Opening
			balance sheet
EUR million	31.12.2018	IFRS 16 impact	1.1.2019
EQUITY AND LIABILITIES			
Equity			
Equity attributable to equity owners of the parent	1,189.6	-4.9	1,184.7
Non-controlling interests	12.9		12.9
Total equity	1,202.5	-4.9	1,197.6
Non-current liabilities			
Interest-bearing liabilities	646.3	104.5	750.8
Other liabilities	29.0		29.0
Deferred tax liabilities	71.1	-1.0	70.1
Liabilities of defined benefit plans	81.2		81.2
Provisions	29.6	-1.0	28.6
Total non-current liabilities	857.3	102.5	959.8
Current liabilities			
Interest-bearing liabilities	240.0	21.8	261.8
Trade payables and other liabilities	439.1	-1.4	437.7
Current income tax liabilities	15.6		15.6
Provisions	9.2		9.2
Total current liabilities	703.9	20.4	724.3
Total liabilities	1,561.2	122.9	1,684.1
Total equity and liabilities	2,763.8	118.0	2,881.8

# CONSOLIDATION PRINCIPLES OF SUBSIDIARIES AND NON-CONTROLLING INTERESTS

The Consolidated Financial Statements include the parent company and its subsidiaries. Subsidiaries are all entities that the Group has control over (voting rights generally being over 50 percent). The Group controls an entity when the Group is exposed to, or has rights to, variable returns from its involvement with the entity, and when it has the ability to affect those returns through its power over the entity. Subsidiaries are fully consolidated from the date on which control is transferred to the Group. They are de-consolidated from the date on which this control ceases.

All intra-group transactions are eliminated. Intra-group shareholdings are eliminated using the acquisition method. The consideration transferred for acquisition of a subsidiary is defined as an aggregate of the fair values of the assets transferred, the liabilities assumed and the equity interest issued by the Group. The consideration transferred may include the fair value of any asset or liability resulting from the contingent consideration arrangement. Acquisition-related costs are expensed as incurred. Identifiable assets acquired, and liabilities and contingent liabilities that are assumed in a business combination are measured at their fair values on the acquisition date. On an acquisition-by-acquisition basis, the Group recognizes any non-controlling interest in the acquiree either at fair value or at the non-controlling interest's proportionate share of the acquiree's net assets.

The amount that exceeds the aggregate of consideration transferred, the amount of any non-controlling interest in the acquiree and the acquisition-date fair value of any previous equity interest in the acquiree over the fair value of the Group's share of the net assets acquired is recognized as goodwill in the Balance Sheet. If this is less than the fair value of the net assets of the subsidiary acquired by bargain purchase, the difference is recognized directly in the Income Statement.

Net profit or loss for the financial year and other comprehensive income attributable to the equity holders of the parent and non-controlling interests are presented in the Income Statement and in the Statement of Comprehensive Income. The portion of equity attributable to non-controlling interests is stated as an individual item separately from the equity to the equity holders of the parent company. Total comprehensive income shows separately the total amounts attributable to the equity holders of the parent company and to non-controlling interests. The Group recognizes negative non-controlling interests, unless the non-controlling interest does not have a binding obligation to cover the losses up to the amount of their investment.

If the parent company's ownership interest in the subsidiary is reduced but control is retained, then the transactions are treated as equity transactions. When the Group ceases to have control or significant influence, any retained interest in the entity is remeasured at its fair value, and the difference is recognized as profit or loss.

## **ASSOCIATES**

Associated companies are companies over which the Group exercises significant influence (voting rights generally being 20–50 percent), but not control. Holdings in associated companies are consolidated using the equity method. If the Group's share of the associate's losses exceeds the carrying amount of the investment, the exceeding losses will not be consolidated unless the Group has a commitment to fulfill the obligations on behalf of the associate. The Group's share of the associated companies' net profit for the financial year is stated as a separate item in the consolidated Income Statement in operating profit, in proportion to the Group's holdings. The Group's share of the movements of its associates in other comprehensive income is recognized in the Group's other comprehensive income.

## FOREIGN CURRENCY TRANSLATION

Items included in the financial statements of each of the Group's entities are measured by using the currency of the primary economic environment in which the entity operates (the functional currency). The Consolidated Financial Statements are presented in EUR, which is the Group's presentation currency and the parent company's functional and presentation currency.

In the Consolidated Financial Statements, the Income Statements of foreign subsidiaries are translated into EUR using the financial year's average foreign currency exchange rates, and the balance sheets are translated using the exchange rates quoted on the balance sheet date. Translating the net profit for the period using different exchange rates in the Income Statement and in the balance sheet causes a translation difference recognized as equity on the Balance Sheet. The change in this translation difference is presented under other comprehensive income. Goodwill and fair value adjustments to the carrying amounts of the assets and liabilities that arise from the acquisition of a foreign entity are accounted for as part of the assets and liabilities of the foreign entity, and are translated into EUR at the rate quoted on the balance sheet date.

Translation differences in the loans granted to some foreign subsidiaries are treated as an increase or decrease in other comprehensive income. When the Group ceases to have control over a subsidiary, the accumulated translation difference is transferred into the Income Statement as part of the gain or loss on the sale.

In their day-to-day accounting, the Group companies translate foreign currency transactions into their functional currency at the exchange rates quoted on the transaction date. In the Financial Statements, foreign currency denominated receivables and liabilities are measured at the exchange rates quoted on the balance sheet date. Non-monetary items are measured using the rates quoted on the transaction date. Any foreign exchange gains and losses related to business operations are treated as adjustments to sales and purchases. Exchange rate differences associated with financing transactions and the hedging of the Group's overall foreign currency position are stated in foreign exchange gains or losses under finance income and expenses.

# THE ITEMS IN THE FINANCIAL STATEMENTS THAT INCLUDE ACCOUNTING ESTIMATES AND ACCOUNTING POLICIES THAT REQUIRE JUDGMENT

When preparing Consolidated Financial Statements in accordance with IFRS, the management is required to make accounting estimates and assumptions concerning the future. The resulting accounting estimate will seldom be equal to the actual results. In addition, management is required to exercise judgment when applying the accounting policies.

Estimates and assumptions are continuously evaluated, and are based on past experience and expectations of future events that may have financial implications and are considered to be reasonable under the circumstances.

The following table discloses items in the financial statements that include significant accounting estimates and the related notes, which discloses the accounting policies applied in the items and the sensitivity analysis of the items. These items that include accounting estimates are subject to a risk of changes in the carrying amount of assets and liabilities during the next financial period.

The items in the Financial Statements	Note in the Financial Statements
Goodwill	3.1. Goodwill
Fair value of shares in the PVO Group	3.5. Other shares
Deferred taxes and uncertain tax positions	<ul><li>2.6. Income taxes and</li><li>4.4. Deferred tax liabilities and assets</li></ul>
Defined benefit pension plans	4.5. Defined benefit pension plans and employee benefits
Provisions	4.6. Provisions

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CONSOLIDATED FINANCIAL STATEMENTS (IFRS) | PART OF THE AUDITED FINANCIAL STATEMENTS 2019

# 2. FINANCIAL PERFORMANCE

## 2.1 SEGMENT INFORMATION

Kemira's organization consists of two segments: Pulp & Paper and Industry & Water.

# Pulp & Paper

Pulp & Paper has expertise in applying chemicals and supporting pulp & paper producers in innovating and constantly improving their operational efficiency. The segment develops and sells products to fulfill customer needs, ensuring the leading portfolio of products and services for paper wet-end, focusing on packaging and board, as well as tissue products.

# **Industry & Water**

Industry & Water supports municipalities and water intensive industries in the efficient and sustainable utilization of resources. In water treatment, the segment helps in the optimization of every stage of the water cycle. In the oil and gas industry, the segment helps to improve yield from existing reserves and reduce water and energy use.

## ALTERNATIVE PERFORMANCE MEASURES

Kemira provides certain financial performance measures (alternative performance measures), which are not defined by IFRS. Kemira believes that alternative performance measures followed by capital markets and Kemira management, such as organic growth\*, EBITDA, operative EBITDA, cash flow after investing activities as well as gearing, provide useful information about Kemira's comparable business performance and financial position. Selected alternative performance measures are also used as performance criteria in remuneration.

Kemira's alternative performance measures should not be viewed in isolation to the equivalent IFRS measures and alternative performance measures should be read in conjunction with the most directly comparable IFRS measures. Definitions of the key figures is disclosed in the section on the Definitions of key figures.

#### INCOME STATEMENT ITEMS

2019, EUR million	Pulp & Paper	Industry & Water	Group
Revenue 1)	1,552.9	1,135.9	2,658.8
EBITDA 2)	192.4	189.9	382.3
Depreciation, amortization and impairments	-119.0	-68.9	-187.9
Share of the results of associates	0.0	0.0	0.0
Operating profit (EBIT) 2)	73.4	121.0	194.4
Finance costs, net			-39.7
Profit before tax			154.7
Income taxes			-38.2
Net profit for the period			116.5

<sup>1)</sup> Revenue consists mainly of sales of products to external customers, and there is no internal sales between the segments.

<sup>2)</sup> Includes items affecting comparability.

<sup>\*</sup> Revenue growth in local currencies, excluding acquisitions and divestments.

## ITEMS AFFECTING COMPARABILITY IN EBITDA AND EBIT

2019, EUR million	Pulp & Paper	Industry & Water	Group
Operative EBITDA	218.3	191.7	410.0
Restructuring and streamlining programs			-13.5
Transaction and integration expenses in acquisitions			2.2
Divestment of businesses and other disposals			0.9
Other items			-17.2
Total items affecting comparability	-25.8	-1.8	-27.7
EBITDA	192.4	189.9	382.3
Operative EBIT	99.2	124.7	224.0
Items affecting comparability in EBITDA	-25.8	-1.8	-27.7
Items affecting comparability in depreciation, amortization and impairments	0.0	-1.9	-1.9
Operating profit (EBIT)	73.4	121.0	194.4

Quarterly information on items affecting comparability is disclosed in the section on Reconciliation of IFRS figures.

## **BALANCE SHEET ITEMS**

2019, EUR million	Pulp & Paper	Industry & Water	Group
Segment assets	1,509.6	873.3	2,383.0
Reconciliation to total assets as reported in the Group balance sheet:			
Other shares			245.2
Deferred income tax assets			35.7
Other investments			2.0
Defined benefit pension receivables			51.8
Other assets			30.2
Cash and cash equivalents			143.1
Total assets			2,891.0
Segment liabilities	241.0	175.9	416.9
Reconciliation to total liabilities as reported in the Group balance sheet:			
Interest-bearing non-current financial liabilities			737.9
Interest-bearing current financial liabilities			216.6
Other liabilities			288.6
Total liabilities			1,660.0

## OTHER ITEMS

2019, EUR million	Pulp & Paper	Industry & Water	Group
Capital employed by segments on Dec 31	1,268.6	697.4	1,966.0
Capital employed by segments, 12-month rolling average	1,289.4	708.2	1,998.2
Operative ROCE, %	7.7	17.6	11.2
Capital expenditure	112.5	91.7	204.1

## **INCOME STATEMENT ITEMS**

2018, EUR million	Pulp & Paper	Industry & Water	Group
Revenue 1)	1,520.2	1,072.6	2,592.8
EBITDA <sup>2)</sup>	187.8	127.0	314.8
Depreciation, amortization and impairments	-108.0	-58.6	-166.6
Share of the results of associates	0.0	0.0	0.0
Operating profit (EBIT) 2)	79.8	68.5	148.2
Finance costs, net			-25.0
Profit before tax			123.3
Income taxes			-28.1
Net profit for the period			95.2

<sup>1)</sup> Revenue consists mainly of sales of products to external customers, and there is no internal sales between the segments.

## ITEMS AFFECTING COMPARABILITY IN EBITDA AND EBIT

2018, EUR million	Pulp & Paper	Industry & Water	Group
Operative EBITDA	191.7	131.5	323.1
Restructuring and streamlining programs			-8.9
Transaction and integration expenses in acquisitions			2.8
Divestment of businesses and other disposals			5.7
Other items			-7.9
Total items affecting comparability	-3.9	-4.4	-8.3
EBITDA	187.8	127.0	314.8
Operative EBIT	91.6	82.2	173.8
Items affecting comparability in EBITDA	-3.9	-4.4	-8.3
Items affecting comparability in depreciation, amortization and impairments	-7.9	-9.3	-17.3
Operating profit (EBIT)	79.8	68.5	148.2

Quarterly information on items affecting comparability is disclosed in the section Reconciliation of IFRS figures.

## **BALANCE SHEET ITEMS**

2018, EUR million	Pulp & Paper	Industry & Water	Group
Segment assets	1,472.3	779.3	2,251.6
Reconciliation to total assets as reported in the Group balance sheet:			
Other shares			228.4
Deferred income tax assets			28.2
Other investments			2.3
Defined benefit pension receivables			61.8
Other assets			46.6
Cash and cash equivalents			144.9
Total assets			2,763.8
Segment liabilities	238.0	173.2	411.1
Reconciliation to total liabilities as reported in the Group balance sheet:			
Interest-bearing non-current financial liabilities			646.3
Interest-bearing current financial liabilities			240.0
Other liabilities			263.8
Total liabilities			1,561.2

### OTHER ITEMS

2018, EUR million	Pulp & Paper	Industry & Water	Group
Capital employed by segments on Dec 31	1,234.3	606.1	1,840.5
Capital employed by segments, 12-month rolling average	1,177.6	603.4	1,781.4
Operative ROCE, %	7.8	13.6	9.8
Capital expenditure	128.4	65.3	193.7

<sup>2)</sup> Includes items affecting comparability.

# Information about geographical areas

#### REVENUE BY GEOGRAPHICAL AREA BASED ON CUSTOMER LOCATION

EUR million	2019	2018
Finland, domicile of the parent company	395.7	417.2
Other Europe, Middle East and Africa	943.6	942.3
Americas	1,062.0	1,001.6
Asia Pacific	257.5	231.7
Total	2,658.8	2,592.8

## NON-CURRENT ASSETS BY GEOGRAPHICAL AREA

EUR million	2019	2018
Finland, domicile of the parent company	756.5	725.8
Other Europe, Middle East and Africa	511.6	467.1
Americas	522.9	426.5
Asia Pacific	211.5	191.4
Total	2,002.5	1,810.7

# Information about major customers

The Group has several significant customers. At least 10% of the Group's revenue was not accumulated from any single external customer in 2019 or 2018.

# ☐ The Group's accounting policies

# Segment reporting

Segment information is presented in a manner consistent with the Group's internal organizational and reporting structure. Kemira's management evaluates the segments performance based on operative EBITDA and operative EBIT, among other factors. Assets and liabilities dedicated to a particular segment's operations are included in that segment's

total assets and liabilities. Segment assets include property, plant and equipment, intangible assets, right-of-use assets, investments in associates, inventories, and certain current non-interest-bearing receivables. Segment liabilities include certain current non-interest-bearing liabilities. Geographically, Kemira's operations are divided into three business regions: Europe, the Middle East and Africa (EMEA), the Americas and the Asia Pacific (APAC).

## Revenue recognition

IFRS 15 standard establishes a single comprehensive model for entities to use in accounting for revenue arising from contracts with customers. The core principle is that an entity should recognize revenue to depict the transfer of promised goods or services to customers to an amount that reflects the consideration to which the entity expects to be entitled in exchange for those goods or services. Kemira recognizes revenue when (or as) a performance obligation is satisfied, i.e. when 'control' of the good or service underlying the particular performance obligation is transferred to the customer.

Kemira's revenue consists mainly of contract types that include sales of chemical products and services which are related to sales of these products. Revenue recognition occurs at the point when the control of the products is transferred to the customer. In Kemira's sales agreements, control is transferred to the customer based on delivery terms and the revenue is recognized at a point in time.

Kemira provides delivery and handling services in conjunction with the sale of chemical products to customers. The delivery and handling services are recognized at the same time as revenue from products and are not treated as a separate performance obligation. Kemira recognizes the sale of products and the delivery and handling services for the same reporting period.

Discounts provided to customers are not a significant component of the sales price in Kemira's sales contracts.

# 2.2 OTHER OPERATING INCOME AND EXPENSES

#### OTHER OPERATING INCOME

EUR million	2019	2018
Gains on the sale of non-current assets	2.6	6.4
Rental income	0.8	1.2
Services	2.6	3.2
Other income from operations 1)	0.4	4.1
Total	6.4	14.8

## **OPERATING EXPENSES**

EUR million	2019	2018
Materials and supplies	1,384.4	1,423.4
Employee benefit expenses	384.0	351.5
External services and other expenses 2) 3)	334.5	335.4
Freights and delivery expenses	180.1	182.5
Total	2,283.0	2,292.8

- 1) In 2018, other income from operations included settlements related to old acquisitions.
- 2) Includes equipment costs, travel expenses, leases, office related expenses, insurances, consulting and other operational expenses.
- 3) In 2019, other operating expenses included research and development expenses of EUR 30.3 million (30.2) including government grants received. Government grants received for R&D were EUR 0.2 million (0.3). The extent of the grants received reduces the research and development expenses.

### **EMPLOYEE BENEFIT EXPENSES**

EUR million	Note	2019	2018
Wages, salaries and emoluments			
Wages and salaries		297.3	274.6
Emoluments of Kemira Oyj's CEO and the Board of Directors	6.1.	1.5	1.4
Share-based payments to others	2.3.	5.1	2.2
Total		303.9	278.2
Indirect employee benefit expenses			
Expenses for defined benefit pension plans and employee benefits	4.5.	3.1	2.7
Pension expenses for defined contribution plans		21.9	20.6
Other employee benefit costs		55.0	49.9
Total		80.0	73.2
Total employee benefit expenses		384.0	351.5

#### NUMBER OF PERSONNEL

	2019	2018
Average number of personnel by geographical area		
Europe, Middle East and Africa	2,585	2,590
Americas	1,554	1,546
Asia Pacific	881	674
Total	5,020	4,810
Personnel in Finland, average	812	821
Personnel outside Finland, average	4,208	3,989
Total	5,020	4,810
Number of personnel on Dec 31	5,062	4,915

#### **AUDITOR'S FEES AND SERVICES**

EUR million	2019	2018
Audit fees	1.4	1.5
Tax services	0.3	0.4
Other services	0.3	0.7
Total	2.0	2.6

In the Annual General Meeting held on March 21, 2019, Ernst & Young Oy was elected as the principal auditor for the Group. In 2018, Deloitte Oy was acting as the principal auditor.

# ☐ The Group's accounting policies

## **Government grants**

Government grants for investments are recognized as a deduction from the carrying amount of PP&E. The grants are recognized in the income statement as smaller depreciations over the asset's useful life. Government grants for research activities are recognized as a deduction from expenses and certain other grants are recognized in other income from operations.

### Research and developments costs

Research and development costs are recognized as an expense as incurred. Development costs are capitalized as intangible assets when it can be shown that a development project will generate a probable future economic benefit, and the costs attributable to the development project can reliably be measured. Capitalized development costs include material, labor and testing costs, as well as any capitalized borrowing costs that are directly attributable to bringing the asset ready for its intended use. Other development costs that do not meet these criteria are recognized as an expense as incurred. Development costs previously recognized as an expense are not recognized as an asset in the subsequent periods.

## 2.3 SHARE-BASED PAYMENTS

## Share incentive plans 2019-2023

On December 21, 2018, the Board of Directors of Kemira Oyj established a long-term share incentive plan directed towards a group of key employees. The long-term share incentive plan includes altogether two one-year performance periods for the years 2019 and 2020, and three three-year performance periods for the years 2019–2021, 2020–2022 and 2021–2023.

Participation in the long-term share incentive plan's performance periods for 2019 and 2019–2021 is directed towards approximately 90 key employees at the beginning of the plan. If the criteria are fulfilled, the rewards to be paid in these performance periods will amount to a maximum of 643,500 Kemira Oyj's shares. In addition, the reward includes a cash portion intended to cover the taxes and tax-related costs arising from the reward.

Share incentive plan	2019	2019-2021
Performance period (calendar year)	2019	2019-2021
Restriction period of shares	2 years	3)
Issue year of shares	2020	2022
Number of transferred shares on December 31, 2019	1)	_
Number of participants on December 31, 2019	82	82
Performance criteria	Intrinsic value 2)	Intrinsic value 2)

<sup>1)</sup> In accordance with the terms and conditions of the share-based incentive plan, approximately 270,000 shares will be transferred to the participants during 2020.

The Board of Directors has decided the maximum share allocation and participants to the performance periods 2020 and 2020-2022. If the criteria are fulfilled, the rewards to be paid in these performance periods will amount to a maximum of 643,500 Kemira Oyj's shares.

<sup>2)</sup> The amount of the reward is based on the intrinsic value which is calculated using Kemira's operative EBITDA and Interest-bearing net liabilities.

<sup>3)</sup> A restriction period is not applied to three-year performance periods.

## Share incentive plans 2015-2018

During the financial periods 2019 and 2018, Kemira has had share incentive plans for the calendar years 2015–2018. Under these share incentive plans, it has been possible to earn Kemira Oyj's shares based on one-year performance periods. The Board of Directors of Kemira has decided on the plan's performance criteria and on the required performance levels for each criterion at the beginning of each performance period.

The rewards for the performance periods have been paid partly in Kemira Oyj's shares and partly in cash. The cash proportion is intended to cover taxes and tax-related costs arising from the reward to the participant. As a rule, no reward has been paid if a participant's employment or service has ended before the reward payment.

The shares paid as a reward may not be transferred during the restriction period, which ends two years after the end of the performance period. If a participant's employment or service has ended during the restriction period, the participant has, as a rule, gratuitously returned the shares given as a reward without consideration.

Share incentive plan	2016 <sup>4)</sup>	2017	2018
Performance period (calendar year)	2016	2017	2018
Restriction period of shares	2 years	2 years	2 years
Issue year of shares	_	2018	2019
Number of transferred shares at December 31, 2019	_	139,808 5)	134,442
Number of participants at December 31, 2019	_	70	74
Performance criteria	Group's reve- nue and ope- rative EBITDA margin	Intrinsic value <sup>2)</sup>	Intrinsic value <sup>2)</sup>

<sup>4)</sup> The set objectives were not achieved, therefore the share-based incentives were not paid on the basis of the share incentive plan.

#### CHANGES IN THE NUMBER OF SHARES IN THE SHARE INCENTIVE PLANS

Share incentive plan	2016	2017	2018
January 1, 2018	_	_	_
The shares issued to participants	_	149,328	_
The shares returned by participants	_	-3,400	_
December 31, 2018	_	145,928	_
January 1, 2019	_	145,928	_
The shares issued to participants	_	_	140,844
The shares returned by participants	_	-6,120	-6,402
December 31, 2019	_	139,808	134,442

#### THE EFFECT OF SHARE-BASED PAYMENTS ON OPERATING PROFIT

EUR million	Note	2019	2018
Rewards provided in shares		2.4	1.1
Rewards provided in cash		2.8	1.2
Total	2.2	5.1	2.2

<sup>5)</sup> At the end of the financial year ending December 31, 2019, the commitment period for the performance period 2017 ended and the 139,808 shares paid on the basis of the share-based incentive scheme were released.

# ☐ The Group's accounting policies

## **Share-based payments**

The Group has equity-settled share-based incentive plans under which the Group receives services from persons as consideration for the share-based rewards. The potential rewards for these services are provided to the person partly in shares and partly in cash.

The Group's share incentive plan includes persons in several different countries where the Group is obliged under local tax laws or regulations to pay the tax liability to the tax authorities on behalf of a person in cash. Due to tax obligations, the share-based incentive plans have been entirely classified as an equity-settled transaction.

The rewards granted on the basis of a share-based arrangement are recognized as personnel expenses in the income statement and in equity. The expense is recognized over the vesting period, which is the period over which the specified vesting conditions are to be satisfied.

Share-based compensation expenses are determined on the grant date based on the Group's estimate of the number of shares that are expected to vest at the end of the vesting period. Based on the vesting conditions, the Group revises its estimates of the number of shares expected to vest based on the balance sheet date. It recognizes the potential impact of the revision on original estimates in the income statement as a personnel expense, with the corresponding adjustment made to equity at fair value.

# 2.4 DEPRECIATION, AMORTIZATION AND IMPAIRMENTS

EUR million	2019	2018
	2019	2018
Amortization of intangible assets and depreciation of property, plant and equipment		
Other intangible assets 1)	30.0	28.0
Buildings and constructions	17.7	17.7
Machinery and equipment	102.8	97.3
Other tangible assets	5.6	6.4
Total	156.2	149.3
Depreciations of right-of-use assets 2)		
Land	1.1	_
Buildings and constructions	8.6	_
Machinery and equipment	19.4	_
Other tangible assets	0.7	_
Total	29.8	_
Impairments of intangible assets and property, plant and equipment $^{\mbox{\tiny 3}\mbox{\tiny )}}$		
Other intangible assets	0.0	0.1
Buildings and constructions	0.0	2.3
Machinery and equipment	1.9	14.9
Total	1.9	17.3
Total depreciation, amortization and impairments	187.9	166.6

<sup>1)</sup> Amortization of intangible assets related to business acquisitions amounted to EUR 18.5 million (15.9) during the

Goodwill impairment tests are disclosed in Note 3.1. Goodwill.

<sup>2)</sup> Depreciation on property, plant and equipment has been reported in accordance with IFRS 16 Leases from 1 January 2019.

<sup>3)</sup> Impairments are related to the closure of plants.

# ☐ The Group's accounting policies

# Depreciation/amortization

Depreciation/amortization is calculated on a straight-line basis over the estimated asset's useful life. Land is not depreciated. The most commonly applied depreciation/amortization periods according to the Group's accounting policies are presented in the following table.

Depreciation of property, plant and equipment and amortization of intangible assets in years		
Buildings and constructions	20-40	
Machinery and equipment	3-15	
Development costs	a maximum of 8 years	
Customer relationships	5-7	
Technologies	5-10	
Non-compete agreements	3-5	
Other intangible assets	5-10	
Right-of-use assets	during a lease term	

Depreciation/amortization of an asset begins when it is available for use and it ceases at the moment when the asset is classified under IFRS 5 as held for sale, or is included in the disposal group.

# 2.5 FINANCE INCOME AND EXPENSES

EUR million	2019	2018
Finance income		
Dividend income	0.0	0.1
Interest income		
Interest income from loans and receivables	1.8	3.4
Interest income from financial assets at fair value through profit or loss	1.1	1.6
Other finance income 1)	1.0	3.6
Total	3.9	8.6
Finance expense		
Interest expenses		
Interest expenses from other liabilities	-24.0	-21.6
Interest expenses from financial liabilities at fair value through profit or loss <sup>2)</sup>	-6.5	-6.9
Interest expenses from lease liabilities	-6.8	_
Other finance expenses	-5.0	-4.9
Total	-42.2	-33.4
Exchange differences		
Exchange differences from financial assets and liabilities at fair value through profit or loss	3.5	12.1
Exchange differences, other	-4.9	-12.2
Total	-1.4	-0.1
Total finance income and expenses	-39.7	-25.0
Net finance expenses as a percentage of revenue, %	1.5	1.0
Net interest as a percentage of revenue, %	1.3	0.9

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CONSOLIDATED FINANCIAL STATEMENTS (IFRS) | PART OF THE AUDITED FINANCIAL STATEMENTS 2019

EUR million	2019	2018
Change in Consolidated Statement of Comprehensive Income from hedge accounting instruments		
Cash flow hedge accounting: amount recognized in the Consolidated Statement of Comprehensive Income <sup>3)</sup>	-15.0	17.5
Total	-15.0	17.5
Exchange differences		
Realized	-0.9	-2.1
Unrealized	-0.5	1.9
Total	-1.4	-0.1

- 1) In 2018, other finance income included gains from the sale of shares in energy production companies.
- 2) Due to the discontinuation of hedge accounting for interest rate derivatives, a loss of EUR 0.5 million was recognized in interest expenses in 2019.
- 3) Consists mostly from changes in fair value of electricity derivatives under hedge accounting treatment.

# 2.6 INCOME TAXES

EUR million	2019	2018
Current taxes	-45.4	-29.9
Taxes for prior years	-1.3	-0.1
Change in deferred taxes	8.5	1.9
Total	-38.2	-28.1

### RECONCILIATION BETWEEN TAX EXPENSE AND TAX CALCULATED AT DOMESTIC TAX RATE

EUR million	2019	2018
Profit before tax	154.7	123.3
Tax at parent company's tax rate 20%	-30.9	-24.7
Foreign subsidiaries' different tax rate	-2.7	-1.6
Non-deductible expenses and tax-exempt profits	-1.3	-0.1
Share of profit or loss of associates	0.0	0.0
Tax losses	0.2	-4.4
Tax for prior years	-1.3	-0.1
Effect of change in tax rates	0.0	0.1
Changes in deferred taxes related to prior years	-2.2	2.6
Income taxes in the Income Statement	-38.2	-28.1

In 2019, the effective tax rate of the Group was 24.7% (22.8%).

## TAX LOSSES

EUR million	Tax losses carried forward	Recognized deferred taxes	Unrecognized deferred taxes
Expiry within 5 years	98.4	8.8	15.6
Expiry after 5 years	4.4	1.0	0.2
No expiry	94.7	0.5	31.4
Total	197.5	10.3	47.3

At the end of 2019, the subsidiaries had EUR 157.1 million (131.5) tax losses, of which no deferred tax benefits have been recognized. The subsidiaries' tax losses are incurred in different currencies and born mainly in Brazil and China.

The Group has a tax dispute pending in the Board of Adjustment in Finland related to the tax deductibility of certain interest costs. In case of an unfavorable decision, there will be no impact to the Group's financial position. As a result of a favorable decision, the Group's income tax credits and tax losses carried forward would increase materially.

# ☐ The Group's accounting policies

### Income taxes

The Group's tax expense for the period comprises current tax, adjustments prior tax periods and deferred tax. Tax is recognized in the income statement, except where it relates to items recognized in other comprehensive income or directly in equity. In this case, the tax is also recognized in other comprehensive income or directly in equity.

The current income tax charge is calculated based on tax laws enacted or substantively enacted on the balance sheet date in the countries where the company and its subsidiaries operate and generate taxable income.

# $\times$ The items in the financial statements that include significant accounting estimates and accounting policies that require judgment

## Deferred taxes and uncertain tax positions

The Management evaluates regularly the positions taken in the tax returns to identify situations in which the applicable tax regulation may be subject to interpretation. The Management evaluates also other potential uncertainties related to the tax positions identified in the tax audits or tax disputes. The potential provisions are recorded based on estimated outcome and probability.

# 2.7 EARNINGS PER SHARE

	2019	2018
Earnings per share, basic		
Net profit attributable to equity owners of the parent company, EUR million	110.2	89.1
Weighted average number of shares 1)	152,629,655	152,483,502
Basic earnings per share, EUR	0.72	0.58
Earnings per share, diluted		
Net profit attributable to equity owners of the parent company, EUR million	110.2	89.1
Weighted average number of shares 1)	152,629,655	152,483,502
Adjustments:		
Average number of treasury shares it is possible to be issued on the basis of the share-based payments	441,388	284,449
Weighted average number of shares for diluted earnings per share	153,071,043	152,767,951
Diluted earnings per share, EUR	0.72	0.58

<sup>1)</sup> Weighted average number of shares outstanding, excluding the number of treasury shares held by Kemira Oyj.

# ☐ The Group's accounting policies

### Earnings per share

The basic earnings per share are calculated by dividing the profit attributable to the equity owners of the parent company by the weighted average number of shares issued during the period excluding treasury shares held by Kemira Oyj. The diluted earnings per share are calculated by adjusting the weighted average number of ordinary shares with the dilutive effect of all the potential dilutive shares, such as shares from share-based payments.

# 2.8 OTHER COMPREHENSIVE INCOME

EUR million	2019	2018
Items that may be reclassified subsequently to profit or loss		
Exchange differences on translating foreign operations	8.4	1.2
Cash flow hedges	-18.5	21.9
Items that will not be reclassified subsequently to profit or loss		
Other shares	16.6	-7.5
Remeasurements of defined benefit plans	-6.3	13.3
Other comprehensive income for the period before taxes	0.2	28.9
Tax effects relating to components of other comprehensive income	0.5	-7.1
Other comprehensive income for the period, net of tax	0.7	21.8

#### THE TAX RELATING TO COMPONENTS OF OTHER COMPREHENSIVE INCOME

		2019		20	018	
EUR million	Before tax	Tax charge (-)/ credit (+)	After tax	Before tax	Tax charge (-)/ credit (+)	After tax
Items that may be reclassified subsequently to profit or loss						
Exchange differences on translating foreign operations	8.4	-0.6	7.8	1.2	-1.0	0.2
Cash flow hedges	-18.5	3.5	-15.0	21.9	-4.4	17.5
Items that will not be reclassified subsequently to profit or loss						
Other shares	16.6	-3.3	13.4	-7.5	1.5	-5.9
Remeasurements of defined benefit plans	-6.3	0.9	-5.4	13.3	-3.2	10.1
Total other comprehensive income	0.2	0.5	0.7	28.9	-7.1	21.8

# 3. CAPITAL EXPENDITURES AND ACQUISITIONS

## **3.1 GOODWILL**

EUR Million	Note	2019	2018
Net book value on Jan 1		512.5	505.0
Acquisition of subsidiaries and business acquisitions 1)	3.5.	0.4	2.2
Decreases and other changes		0.0	0.0
Exchange differences		2.9	5.4
Net book value on Dec 31		515.8	512.5

<sup>1)</sup> Goodwill has increased due to the business acquisition in China.

# Impairment testing of goodwill

Goodwill is allocated to two individual cash-generating units that are the Group's reportable segments. The reportable segment represents the lowest level within the Group at which goodwill is monitored for internal management purposes. The Group's two reportable segments are Pulp & Paper and Industry & Water. A summary of the tested net book values and goodwill relating to the Group's reportable segments is presented in the following table.

	2019		201	8
EUR Million	Net book value <sup>2)</sup>	of which goodwill	Net book value	of which goodwill
Pulp & Paper	1,269	357	1,234	355
Industry & Water	697	159	606	157
Total	1,966	516	1,841	513

<sup>2)</sup> Right-of-use assets under IFRS 16 are included in the carrying amounts of the two cash-generating units tested.

The Group carries out its impairment testing of goodwill annually, or whenever there is an indication that the recoverable amount may be less than its carrying amount. The recoverable amounts of cash-generating units have been determined based on value in use calculations which require the use of estimates and assumptions. The key assumptions in value in use calculations are the EBITDA margin and discount rate.

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The long-term EBITDA margin assumption used for the impairment testing of goodwill is based on past experience about EBITDA margins and reflects the management's perception of developments in sales prices and sales volumes during the forecast period. The cash flow forecasts used in the impairment testing are based on cash flow forecasts approved by the management covering a five-year horizon. The expected growth used to extrapolate cash flows subsequent the five-year forecast period was assumed to be 1% (2018:0%) in both Pulp & Paper and Industry & Water.

The discount rates applied were based on the Group's adjusted Weighted Average Cost of Capital (WACC) before taxes. The risk-adjusted WACC rate was defined for each cashgenerating unit. The pre-tax discount rates used in performing the impairment tests of the Group's reportable segments are presented in the following table.

%	2019	2018
Pulp & Paper 3)4)	7.8	5.2
Industry & Water <sup>3) 4)</sup>	7.8	5.1

- 3) The increase in the discount rate is mainly due to the market risk and size risk premium used.
- 4) The capital structure used in the discount rate has changed and the debt-to-equity ratio has increased due to IFRS 16 for 2019.

In addition, at the time of impairment testing an impairment test based on market value has been carried out. The value in use calculation based on cash flow forecasts have been validated by comparing it against the quoted market value of Kemira.

During the financial years 2019 and 2018, impairment tests have not indicated any impairment, and no impairment loss has been recognized in the income statement.

## Sensitivity analysis

In 2019, as part of the impairment testing, the Group has carried out sensitivity analysis that assess key changes in assumptions as follows: a decrease of 2 percentage points in EBITDA margin, a decrease of 10% in estimated cash flow during the forecast period, a increase of

1 percentage point and 2 percentage points in the discount rates or a decrease of 10% in cash flows and an increase of 2 percentage points in the discount rate.

Based on the sensitivity analyses carried out, the management has estimated that changes in the key assumptions of EBITDA margins, discount rates and cash flows would not result in the cash-generating units carrying amount exceeding recoverable amount, no impairment losses would to be recorded in either of the reportable segments.

# ☐ The Group's accounting policies

#### Goodwill

Goodwill arises from business combinations. Goodwill represents the excess of the consideration transferred, the amount of any non-controlling interest in the acquiree and the acquisition-date fair value of any previous equity interest in the acquiree over the fair value of the identifiable net assets acquired. Goodwill is measured at cost less the accumulated impairment losses.

## Impairment testing

On each balance sheet date, the Group's assess whether there is any indication of an asset's impairment. If any indication of impairment exists, the recoverable amount of the asset or the cash-generating unit is calculated on the basis of the value in use or the net selling price.

For the purpose of impairment testing goodwill, a cash-generating unit has been defined as an operating segment. Two or more operating segments are not combined into one reportable segment. The recoverable amount of a reportable segment is defined as its value in use, which consists of the discounted future cash flows to the unit. Estimates of future cash flows are based on the continuing use of an asset and the forecasts by the management. Cash flow estimates do not include the effects of improved asset performance, investments or future reorganizations.

Goodwill impairment is tested by comparing Pulp & Paper and Industry & Water reportable segment's recoverable amount with its carrying amount. The carrying amount includes

goodwill, intangible assets and PP&E, right-of-use assets and working capital. The Group does not have intangible assets with indefinite useful lives other than goodwill. All goodwill has been allocated to the reportable segments.

An impairment loss is recognized, whenever the carrying amount of an asset or a cash-generating unit exceeds its recoverable amount. An impairment loss is recognized in the income statement. If there has been a positive change in the estimates used to determine an asset's recoverable amount since the last impairment loss was recognized, an impairment loss recognized for previous years is reversed only to the extent that the asset's carrying amount does not exceed the carrying amount that would have been determined if no impairment loss had been recognized for the previous years. An impairment loss for goodwill is never reversed.

# $\times$ The items in the financial statements that include significant accounting estimates and accounting policies that require judgment

## Impairment test of goodwill

The impairment tests of goodwill and other assets include determining future cash flows which, with regard to the most significant assumptions, are based on EBITDA margin and discount rates. Significant adverse developments in cash flows and interest rates may necessitate the recognition of an impairment loss.

## 3.2 OTHER INTANGIBLE ASSETS

	Other intangible		
2019, EUR million	assets	Prepayments	Total
Acquisition cost on Jan 1 ¹)	318.1	5.6	323.8
Additions	8.2	0.4	8.6
Purchases of subsidiaries and business acquisitions <sup>2)</sup>	2.2	-2.2	0.0
Decreases and other changes	-2.3	0.0	-2.3
Reclassifications	-1.6	-0.2	-1.8
Exchange rate differences	1.4	-0.5	0.9
Acquisition cost on Dec 31	326.0	3.2	329.2
Accumulated amortization on Jan 1	-205.6		-205.6
Accumulated amortization relating to decreases and transfers	2.3		2.3
Amortization during the financial year	-30.0		-30.0
Impairments	0.0		0.0
Exchange rate differences	-0.4		-0.4
Accumulated amortization on Dec 31	-233.8		-233.8
Net book value on Dec 31	92.3	3.2	95.5

<sup>1)</sup> On January 1, 2019, Kemira adopted the IFRS 16 Leases standard. As a result of this, certain intangible assets have been reclassified. More information on the impact of the adoption of IFRS 16 can be found in Note 1. The Group's Accounting Policies for the Consolidated Financial Statements.

The Group holds assigned emissions allowances under the EU Emissions Trading System at the Helsingborg site in Sweden and at the Bradford site in the UK. At the Group level, the allowances showed a surplus of 45 348 tons of carbon dioxide in 2019 (a surplus of 51,801 tons).

<sup>2)</sup> Includes patents and a non-compete agreement that were allocated to intangible assets from the business acquisition in China.



2018, EUR million	Other intangible assets	Prepayments	Total
2010, 2010 IIII.	433013	rrepayments	Total
Acquisition cost on Jan 1	267.3	10.5	277.8
Additions	19.7	-7.4	12.4
Purchases of subsidiaries and business acquisitions <sup>2)</sup>	41.2	2.5	43.7
Decreases and other changes	0.0	0.0	0.0
Exchange rate differences	0.5	0.0	0.4
Acquisition cost on Dec 31	328.6	5.6	334.2
Accumulated amortization on Jan 1	-177.2		-177.2
Accumulated amortization relating to decreases and transfers	0.0		0.0
Amortization during the financial year	-28.0		-28.0
Impairments	-0.1		-0.1
Exchange rate differences	-0.3		-0.3
Accumulated amortization on Dec 31	-205.6		-205.6
Net book value on Dec 31	123.0	5.6	128.6

# ☐ The Group's accounting policies

# Other intangible assets

Other intangible assets include for instance software and software licenses and patents, technologies, non-compete agreements and customer relationships acquired in business combinations. Intangible assets are measured at cost less accumulated amortization and any impairment losses. The Group has no intangible assets that have an indefinite useful life other than goodwill.

## **Emissions allowances**

Carbon dioxide allowances are accounted for as intangible assets measured at cost. Carbon dioxide allowances received free of charge are measured at their nominal value (zero). A provision for the fulfillment of the obligation to return allowances is recognized if the free-of-charge allowances are not sufficient to cover actual emissions. The Group's consolidated balance sheet shows no items related to emissions allowances when the volume of actual emissions is lower than that of the free-of-charge emissions allowances and the Group has not bought allowances on the market.

# 3.3 PROPERTY, PLANT AND EQUIPMENT

2019, EUR million	Land	Buildings and constructions	Machinery and equipment	Other property, plant and equip- ment	Prepayments and assets under construction <sup>2)</sup>	Total
Acquisition cost on Jan 1	50.4	494.4	1,637.3	70.4	101.9	2,354.5
Additions	0.0	17.8	133.1	6.7	35.3	192.9
Acquisitions of subsidiaries and business acquisitions 1)	0.0	-0.2	-2.4	0.0	0.0	-2.6
Decreases and other changes	-0.7	-9.9	-79.9	-0.2	0.0	-90.7
Disposed subsidiaries	0.0	0.0	-2.3	0.0	0.0	-2.3
Reclassifications	0.0	0.0	0.2	0.0	0.2	0.5
Exchange rate differences	0.0	1.4	9.6	0.5	0.3	11.8
Acquisition cost on Dec 31	49.8	503.6	1,695.6	77.4	137.7	2,464.0
Accumulated depreciation on Jan 1	-9.9	-276.4	-1,089.1	-40.8		-1,416.3
Accumulated depreciation related to decreases and transfers	0.0	9.8	80.4	0.1		90.2
Depreciation during the financial year	0.0	-17.7	-102.8	-5.6		-126.2
Impairments	0.0	0.0	-1.9	0.0		-1.9
Exchange rate differences	0.0	0.0	-4.4	-0.3		-4.8
Accumulated depreciation on Dec 31	-9.9	-284.5	-1,117.9	-46.7		-1,458.9
Net book value on Dec 31	39.9	219.1	577.7	30.7	137.7	1,005.1

<sup>1)</sup> Includes items that were transferred to property, plant and equipment from the business acquisition in China.

<sup>2)</sup> Prepayment and non-current assets under construction are mainly comprised of plant investments.

2018, EUR million	Land	Buildings and constructions	Machinery and equipment	Other property, plant and equip- ment	Prepayments and assets under construction <sup>2)</sup>	Total
Acquisition cost on Jan 1	51.0	499.0	1,551.7	66.3	89.4	2,257.5
Additions	0.1	2.5	127.0	4.6	1.4	135.6
Acquisitions of subsidiaries and business acquisitions 1)	0.0	5.5	6.2	0.0	11.7	23.3
Decreases and other changes	0.0	-6.4	-44.6	-0.6	0.0	-51.5
Disposed subsidiaries	-0.1	-1.7	-0.4	0.0	0.0	-2.2
Reclassifications	0.0	0.0	0.0	0.0	0.0	0.0
Exchange rate differences	-0.5	-4.5	-2.7	0.1	-0.6	-8.3
Acquisition cost on Dec 31	50.4	494.4	1,637.3	70.4	101.9	2,354.5
Accumulated depreciation on Jan 1	-9.8	-267.8	-1,022.9	-34.1		-1,334.7
Accumulated depreciation related to decreases and transfers	0.0	8.3	45.1	0.6		54.0
Depreciation during the financial year	0.0	-17.7	-97.3	-6.4		-121.3
Impairments	0.0	-2.3	-14.0	-0.9		-17.2
Exchange rate differences	0.0	3.1	0.0	-0.1		3.0
Accumulated depreciation on Dec 31	-9.8	-276.4	-1,089.1	-40.8		-1,416.3
Net book value on Dec 31 <sup>3)</sup>	40.6	218.0	548.2	29.6	101.9	938.3

3) In 2018 Property, plant and equipment also includes the assets leased under finance leases. These are disclosed in Note 5.3. Interest-bearing liabilities.

**BUSINESS OVERVIEW** 

# ☐ The Group's accounting policies

# Property, plant and equipment

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Property, plant and equipment are measured at cost less accumulated depreciation and any impairment losses. The residual values and useful lives of the assets are reviewed at least at the end of each financial year. Gains and losses on the sale of non-current assets

are included in other operating income and expenses. Borrowing costs directly attributable to the acquisition or construction of a qualifying asset are capitalized as part of the cost of the asset in question when it is probable that they will generate future economic benefits and the costs can be reliably measured. The costs of major inspections or the overhaul of an asset performed at regular intervals and identified as separate components are capitalized and depreciated over their useful lives.

## 3.4 LEASES

				Other property,	
2019, EUR million	Land	<b>Buildings and constructions</b>	Machinery and equipment	plant and equipment	Total
Net book value Jan 1	28.2	39.2	59.7	2.2	129.3
Additions	0.2	1.0	32.3	0.5	34.0
Depreciation and impairments	-1.1	-8.6	-19.4	-0.7	-29.8
Reclassifications	1.5	0.0	0.0	0.0	1.5
Exchange rate differences	0.0	0.2	1.0	0.0	1.2
Net book value Dec 31	28.7	31.9	73.7	2.0	136.2

Maturity of lease liabilities has been presented in the Note 5.3. Interest-bearing liabilities. Changes in lease liabilities and payments related to lease liabilities has been presented in Note 5.1. Capital Structure. Further information of the IFRS 16 transition has been presented in Note 1. Group Accounting Policies.

# ☐ The Group's accounting policies

#### Leases

At the time of entering into an agreement, Kemira assesses whether it is a lease or whether it contains a lease. An agreement is a lease in accordance with IFRS 16 if the agreement gives Kemira, as lessee, the right to control the asset and control its use for a specified period, against consideration. Kemira's leases are mainly for land, buildings and transport equipment.

The lease is recognized as a fixed asset and a corresponding liability when the leased asset is available to Kemira. The rent paid is divided into debt and interest expenses. Interest expenses are recognized in the income statement over the lease term and the asset is amortized over the lease term. Assets and liabilities arising from leases are initially measured at present value. Lease liabilities include the net fair value of rentals, consisting of a fixed payment and a variable rent that are index or price level dependent. The lease liability is discounted to its present value using an interest rate on the additional loan, consisting of the reference interest rate and the lessee's credit margin, which the lessee would pay on the acquisition of the corresponding asset by debt

financing. This additional loan rate will vary depending on the duration of the lease and the currency.

The lease term is the period during which the lease cannot be canceled. Kemira leases typically have a fixed term, and some contracts have options for renewal. The option is included in the lease liability if it is reasonably certain that the option will be exercised. If there is a change in the estimate of the exercise of the option, the lease liability and the related asset are reassessed.

A right-of-use asset is measured at cost, which includes the original amount of the lease liability. Building leases deal separately with lease components and non-lease components where they can be identified and distinguished from the concession. In subsequent periods, the accumulated depreciation and impairment losses are deducted from the asset. Fixed assets are tested for impairment in accordance with IAS 36 Impairment of Assets.

Payments for short-term and low-value leases are recognized as an expense in the income statement on a straight-line basis over the lease term. During 2019 these lease expenses were EUR 4 million. Leases with a maximum term of 12 months are regarded as short-term. Low value assets include IT equipment, office furniture and other low value machines.

## 3.5 OTHER SHARES

2019, EUR million	The shares of Pohjolan Voima Group	Other non-listed shares	Total
Net book value on Jan 1	226.9	1.4	228.4
Additions	_	0.3	0.3
Decreases	_	_	_
Change in fair value	16.6	_	16.6
Net book value on Dec 31	243.4	1.7	245.2
2018, EUR million			
Net book value on Jan 1	234.3	1.5	235.8
Additions	_	_	_
Decreases	_	_	_
Change in fair value	-7.4	-0.1	-7.5
Net book value on Dec 31	226.9	1.4	228.4

#### SHARES IN THE POHJOLAN VOIMA GROUP

EUR million	Class of shares	Holding, %	Class of assets	2019	2018
Pohjolan Voima Oy	А	5	hydro power	100.2	76.2
Pohjolan Voima Oy	В	2	nuclear power	40.7	43.2
Pohjolan Voima Oy 1)	B2	7	nuclear power	21.3	21.3
Teollisuuden Voima Oyj	Α	2	nuclear power	78.4	83.3
Other Pohjolan Voima Oy 2)	C2, G5, G6, M	several	several	3.0	3.0
Total				243.4	226.9

<sup>1)</sup> The plant supplier (AREVA-Siemens consortium) is building the Olkiluoto 3 nuclear power plant (OL 3) in Finland with fixed-price turnkey contracts. In spring 2005, the plant supplier started construction work with a contractual obligation to start the electricity production in OL 3 in spring 2009. However, OL 3 has been delayed several times from its original start-up schedule. TVO's release on December 19, 2019, gives the updated schedule for the start-up of OL 3 by the plant supplier. According to the plant supplier, the nuclear fuel of OL 3 will be loaded into the reactor in June 2020, the first connection to the electricity grid will take place in November 2020, and the start of regular electricity production of OL 3 will commence in March 2021.

Kemira Oyj owns 5% of Pohjolan Voima Oy, a company of the Pohjolan Voima Group, and 1% of its subsidiary Teollisuuden Voima Oyj.

# Discounted cash flow assumptions and sensitives

	2019	2018
Short-term discount rate	3.5%	3.8%
Long-term discount rate	3.6%	4.4%
Electricity price estimate EUR/MwH	35.95-54.41	34.55-52.77

A 10% decrease or increase in the electricity market price in the future would negatively or positively impact on the fair value of the shares by approximately EUR +/- 36 million (+/- 35). An increase or decrease of one percentage point in the discount rate would negatively or positively impact on the fair value of the shares by approximately EUR - 40 million (- 30) or approximately EUR 67 million (44).

# ☐ The Group's accounting policies

#### Other shares

Other shares are classified at fair value through other comprehensive income. Changes in the fair value of other shares are recognized in other comprehensive income under equity in the fair value reserve taking the tax effect into account and including gains and losses from sales. The dividends are recognized in the profit or loss statement. Other shares include non-listed companies, the shareholdings in Pohjolan Voima Oy (PVO) and Teollisuuden Voima Oyj (TVO) representing the largest investments.

PVO and its subsidiary TVO comprise a private electricity-generating group owned by Finnish manufacturing and power companies, to which it supplies electricity at cost. The PVO Group owns and operates two nuclear power plant units in Olkiluoto in the municipality of Eurajoki. Kemira Group has A series shares in TVO and A, B, C, G and M series shares in PVO. Different share series entitle the shareholder to electricity generated by different power plants. The owners of each share series are responsible for the fixed costs of the series in question in

<sup>2)</sup> On September 12, 2018, Venator announced its intention to close its Pori TiO2 manufacturing facility. As a result of this announcement, Kemira's fair value of PVO G6 share series decreased by EUR 21.4 million.

proportion to the number of the shares, regardless of whether they use their power or energy share or not, and for variable costs in proportion to the amount of energy used.

Kemira Oyj's holding in the PVO Group entitling Kemira to the electricity from completed power plants is measured at the fair value based on the discounted cash flow resulting from the difference between the market price of the electricity and the cost price. The forward electricity price quotations in Finland area published by the Nordic Electricity Exchange have been used as the basis for the market price for the electricity for the first five years, and after this, the development of the prices is based on a fundamental simulation model of the Nordic electricity market. The impact of inflation in the coming years is taken into account in the price of the electricity and the cost prices. The cost prices are determined by each share series. Future cash flows have been discounted based on the estimated useful lifecycles of the plants related to each share series, and hydro power also includes terminal value. The discount rate has been calculated using the annually determined average weighted cost of capital.

# The items in the financial statements that include significant accounting estimates and accounting policies that require judgment

## Estimated fair value of shares in the PVO Group

The Group's shareholding in the unlisted PVO Group is measured at fair value, based on the discounted cash flow resulting from the difference between the market price of electricity and the cost price using the valuation model. Developments in the actual fair value may differ from the estimated value due to factors, such as electricity prices, inflation, the forecast period or the discount rate.

## 3.6 BUSINESS COMBINATIONS

CORPORATE SUSTAINABILITY

# 2018: Acquisition of business with Kemira TC Wanfeng Chemicals Yanzhou Company in China

On September 29, 2017, Kemira signed an agreement to form a company - Kemira TC Wanfeng Chemicals Yanzhou ("NewCo") - with Shandong Tiancheng Wanfeng Chemical Technology ("TC Wanfeng"), an AKD producer in China. NewCo will strengthen Kemira's position as the leading global producer of chemicals in the Pulp & Paper industry.

NewCo mainly produces AKD wax and its key raw material fatty acid chloride (FACL). AKD wax, for which the main component is based on renewable raw materials, is a sizing chemical used in board and paper manufacturing to create resistance against liquid absorption.

Through backward integration, Kemira is expanding its position in the value chain. NewCo is the largest AKD wax manufacturing unit globally and thus improves Kemira's AKD wax production capacity. NewCo's site is located in the same chemical park with Kemira's first AKD wax plant in Yanzhou, China and the proximity of the two sites results in operational synergies. The NewCo site also offers growth opportunities for other chemicals.

On November 30, 2018, Kemira closed the deal for the acquisition of business into NewCo and received final authority permits in China. The purchase price of the acquired business into NewCo was EUR 67 million and part of the purchase price is outstanding. The purchase price does not involve contingent consideration. Kemira owns 80% and TC Wanfeng 20% of NewCo. The deal includes put and call options regarding the TC Wanfeng 20% holding of NewCo's shares. The obligation related to the put option is recognized as a liability in the balance sheet.

Based on the acquisition calculation under IFRS 3 standard, EUR 39 million was allocated to intangible assets as patents and a non-compete agreement. Acquired intangible assets will be amortized within seven years. Goodwill of EUR 3 million arose mainly from the expected synergy in the business combination. The acquired business was consolidated into the Pulp & Paper segment starting on December 1, 2018.

The purchase price for the business on the acquisition date and the fair value for the amounts of the assets acquired and goodwill are final, and the values in the following table do not differ materially from the reported in the Consolidated Financial Statements in 2018.

EUR million	
Purchase price of the acquisition, total	67
Intangible assets	39
Property, plant and equipment	25
Identifiable assets acquired	64
Goodwill	3
Total assets acquired	67

Acquired business related costs of EUR 0.3 million was included in other operating expenses in the Consolidated Income Statements in 2018.

Revenue and EBITDA from the acquired business for the period of December, 2018 had no material impact on the Consolidated Income Statement in 2018.

# ☐ The Group's accounting policies

#### **Business combinations**

Subsidiaries are fully consolidated from the date on which the control is transferred to the Group. They are deconsolidated from the date on which this control ceases.

The consideration transferred for acquisition of a subsidiary is defined as an aggregate of the fair values of the assets transferred, the liabilities assumed and the equity interest issued by the Group. The consideration transferred may include the fair value of any asset or liability resulting from the contingent consideration arrangement. Acquisition-related costs are expensed as incurred. Identifiable assets acquired, and liabilities and contingent liabilities that are assumed in a business combination are measured at their fair values on the acquisition date. On an acquisition-by-acquisition basis, the Group recognizes any non-controlling interest in the acquiree, either at fair value or at the non-controlling interest's proportionate share of the acquiree's net assets.

The amount that exceeds the aggregate of the consideration transferred, the amount of any non-controlling interest in the acquiree and the acquisition-date fair value of any previous equity interest in the acquiree over the fair value of the Group's share of the net assets acquired is recognized as goodwill on the balance sheet. If this is less than the fair value of the net assets of the subsidiary acquired by bargain purchase, the difference is recognized directly in the income statement.

# 4. WORKING CAPITAL AND OTHER BALANCE SHEET ITEMS

#### NET WORKING CAPITAL

EUR million	Note	2019	2018
Inventories	4.1	260.6	283.8
Trade receivables and other receivables	4.2	378.8	420.2
Excluding financing items in other receivables 1)		-11.9	-32.5
Trade payables and other liabilities	4.3	455.7	439.1
Excluding financing items in other liabilities 1)		-38.8	-28.0
Total		210.7	260.4

<sup>1)</sup> Includes mainly interest income and expenses, exchange gains and losses and hedging related items.

Quarterly information on net working capital is disclosed in the section on Reconciliation of IFRS figures.

# **4.1 INVENTORIES**

EUR million	2019	2018
Materials and supplies	82.9	86.5
Finished goods	169.6	179.1
Prepayments	8.1	18.2
Total	260.6	283.8

In 2019, EUR 6.3 million (5.4) of the inventory value was recognized as an expense in order to decrease the book values of the inventories to correspond with their net realizable value.

# ☐ The Group's accounting policies

#### Inventories

Inventories are measured at the lower of cost and net realizable value. Costs are determined on a first-in first-out (FIFO) basis or by using a weighted average cost formula, depending

on the nature of the inventory. The cost of finished goods and work in progress include the proportion of production overheads at normal capacity. The net realizable value is the sales price received in the ordinary course of business less the estimated costs for completing the asset and the sales costs.

## 4.2 TRADE RECEIVABLES AND OTHER RECEIVABLES

EUR million	2019	2018
Trade and other receivables		
Trade receivables	308.4	307.3
Prepayments	2.1	1.9
Prepaid expenses and accrued income	34.7	62.7
Other receivables	33.6	48.4
Total	378.8	420.2

#### AGING OF OUTSTANDING TRADE RECEIVABLES

	2019			
EUR million	Receivables, gross amount	Expected credit losses	Receivables, net amount	
Not due trade receivables	267.7	-0.2	267.4	
Trade receivables 1-90 days overdue	40.5	-0.4	40.1	
Trade receivables more than 91 days overdue	6.8	-6.0	0.9	
Total	315.0	-6.6	308.4	

EUR million	Receivables, gross amount	Expected credit losses	Receivables, net amount
Not due trade receivables	265.4	-0.2	265.2
Trade receivables 1-90 days overdue	40.9	-0.1	40.8
Trade receivables more than 91 days overdue	7.8	-6.5	1.3
Total	314.1	-6.8	307.3

In 2019, the impairment loss of trade receivables amounted to EUR 0.6 million (0.6).

In 2019, items that were due in a time period longer than one year included trade receivables of EUR 0.3 million (0.0), prepaid expenses and an accrued income of EUR 4.0 million (10.4), other receivables of EUR 3.7 million (5.0) and prepayments of EUR 0.3 million (0.6).

# ☐ The Group's accounting policies

## Trade receivables, loan receivables and other receivables

Trade receivables, loan receivables and other receivables are initially recognized at fair value and subsequently measured at amortized cost, taking impairment into account. These items are subject to a simplified impairment model in accordance with the IFRS 9 standard, where the estimated amount of credit losses is based on the expected credit losses on life expectancy.

The expected credit loss rates for the impairment model vary for trade receivables by age distribution and geographical area of the EMEA, America and APAC. Credit loss rates are based on sales payment profiles and historical credit losses.

The expected credit losses for trade receivables are recognized using the simplified impairment model in accordance with IFRS 9. The expected credit losses are calculated by multiplying the book value of unpaid trade receivables by the expected credit loss rate according to geographical area, and any overdue trade receivables over 180 days are assessed based on a specific risk assessment. In addition, an estimate of a credit loss is recognized for individual trade receivables when there is objective evidence that the receivables will not be recovered on all original terms.

Trade receivables, loan receivables and other receivables do not include a significant financial component.

## 4.3 TRADE PAYABLES AND OTHER CURRENT LIABILITIES

EUR million	2019	2018
Trade payables and other liabilities		
Prepayments received	2.7	1.9
Trade payables	188.2	179.9
Accrued expenses	228.7	230.0
Other non-interest-bearing current liabilities	36.2	27.4
Total	455.7	439.1

Accrued expenses		
Employee benefits	92.4	66.5
Items related to revenue and purchases	87.9	108.0
Interest	7.8	8.8
Exchange rate differences	17.3	17.9
Other	23.2	28.8
Total	228.7	230.0

# ☐ The Group's accounting policies

## Trade payables and other liabilities

Trade and other payables are presented as current liabilities if payment is due within 12 months after the financial period. Trade payables are initially recognized at fair value and subsequently measured at amortized cost.

# 4.4 DEFERRED TAX LIABILITIES AND ASSETS

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EUR million	Jan 1, 2019	Recognized in the income statement	Recognized in other comprehensive income	Recognized in equity	Acquired and disposed subsi- diaries	Exchange differences and reclassifications	Dec 31, 2019
Deferred tax liabilities							
Depreciations and untaxed reserves 1)	44.4	2.0	0.0	0.0	0.0	-2.1	44.3
Other shares	21.2	0.0	3.3	0.0	0.0	0.0	24.5
Defined benefit pensions	13.8	-2.9	1.2	0.0	0.0	-1.7	10.4
Fair value adjustments of net assets acquired	3.3	-0.5	0.0	0.0	0.0	0.0	2.8
Other items	5.3	-1.5	1.8	0.6	0.0	3.3	9.4
Total	88.1	-2.9	6.3	0.6	0.0	-0.5	91.5
Deducted from deferred tax assets	-17.9						-23.7
Deferred tax liabilities in the balance sheet	70.1						67.8
Deferred tax assets	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Provisions	14.1	3.6	0.0	0.0	0.0	0.0	17.7
Tax losses	9.3	2.8	0.0	0.0	0.0	0.1	12.2
Defined benefit pensions	10.2	-0.1	3.3	0.0	0.0	-1.8	11.5
Other items	12.6	-0.7	5.0	0.0	0.0	1.2	18.0
Total	46.1	5.6	8.3	0.0	0.0	-0.6	59.4
Deducted from deferred tax liabilities	-17.9						-23.7
Deferred tax assets in the balance sheet	28.2						35.7

<sup>1)</sup> Depreciations and untaxed reserves includes EUR 1.0 million adjustment related to the adoption of the IFRS 16 Leases standard on January 1, 2019. Further information regarding the standard change is available in Note 1 Group Accounting Policies.



EUR million	Jan 1, 2018	Recognized in the income statement	Recognized in other comprehensive income	Recognized in equity	Acquired and disposed subsi- diaries	Exchange differences and reclassifications	Dec 31, 2018
Deferred tax liabilities							
Depreciations and untaxed reserves	41.3	2.4	0.0	0.0	0.0	1.7	45.4
Other shares	22.7	0.0	-1.5	0.0	0.0	0.0	21.2
Defined benefit pensions	11.1	-0.1	2.9	0.0	0.0	0.0	13.8
Fair value adjustments of net assets acquired	4.8	-1.5	0.0	0.0	0.0	0.0	3.3
Other items	5.2	-1.0	1.5	0.5	0.0	-1.0	5.3
Total	85.1	-0.1	2.9	0.5	0.0	0.7	89.1
Deducted from deferred tax assets	-22.7						-17.9
Deferred tax liabilities in the balance sheet	62.4						71.1
Deferred tax assets							
Provisions	13.8	0.0	0.0	0.0	0.0	0.4	14.1
Tax losses	10.4	-1.0	0.0	0.0	0.0	-0.1	9.3
Defined benefit pensions	9.9	0.1	0.3	0.0	0.0	-0.2	10.2
Other items	13.8	2.7	-3.9	0.0	0.0	0.0	12.6
Total	47.9	1.8	-3.6	0.0	0.0	0.0	46.1
Deducted from deferred tax liabilities	-22.7						-17.9
Deferred tax assets in the balance sheet	25.2						28.2

# ☐ The Group's accounting policies

### **Deferred taxes**

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Deferred tax is recognized, using the liability method, on temporary differences arising between the tax bases of the assets and liabilities and their carrying amounts in the Consolidated Financial Statements. However, deferred tax liabilities are not recognized if they arise from the initial recognition of an asset or liability in a transaction other than a business combination that at the time of the transaction affects neither accounting profit nor taxable profit or loss. Deferred income tax is determined using tax rates (and laws) that have been enacted or substantially enacted by the balance sheet date and are expected

to apply when the related deferred income tax asset is realized or the deferred income tax liability is settled.

Deferred income tax assets are recognized only to the extent that it is probable that a future taxable profit will be available against which the temporary differences can be utilized.

Deferred income tax is provided on temporary differences arising on investments in subsidiaries and associates, except for deferred income tax liability where the timing of the reversal of the temporary difference is controlled by the Group and it is probable that the temporary difference will not reverse in the foreseeable future.

Deferred income tax assets and liabilities are offset when there is a legally enforceable right to offset the current tax assets against current tax liabilities, and when the deferred income taxes assets and liabilities relate to the income taxes levied by the same taxation authority on either the same tax entity or different taxable entities where there is an intention to settle the balances on a net basis.

# imes The items in the financial statements that include significant accounting estimates and accounting policies that require judgment

## **Deferred taxes**

For the recognition of deferred tax assets for tax losses and other items, the management assesses the amount of a probable future taxable profit against which unused tax assets can be utilized. Actual profits may differ from the forecasts and in such cases, the change will affect the taxes in future periods.

## 4.5 DEFINED BENEFIT PENSION PLANS AND EMPLOYEE BENEFITS

The Group has several defined benefit pension plans and other employee benefit obligations. The main defined benefit pension plans are in Finland, Sweden, Germany, the UK and Norway.

## **Finland**

The Group's most significant defined benefit plan is in Finland, through Pension Fund Neliapila, which takes care of part of some employees' supplementary pension benefits. The Pension Fund Neliapila covers employees whose employment with Kemira began before January 1, 1991, meaning that the fund is closed to new employees. The plan is a final average pay pension plan relating to supplementary pension benefits. At the end of 2019, the obligations of Pension Fund Neliapila totaled EUR 215.9 million (212.3) and assets of the plan totaled EUR 267.5 million (272.6).

Pension Fund Neliapila's supplementary benefit includes old-age pensions, disability pensions, survivors' pensions and funeral grants. The aggregated pension benefit is 66 percent of the pension salary. To qualify for a full pension, an employee must have accrued a pensionable service of 25 years. The supplementary pension benefits is the difference between the aggregated and compulsory pension benefits.

## Sweden

CORPORATE SUSTAINABILITY

In Sweden, there is a defined benefit pension plan called the ITP 2 plan for white-collar employees. To qualify for a full pension, an employee must have a projected period of pensionable service, from the date of entry until retirement age, of at least 30 years. The pension arrangements comprise the normal retirement pension, complementary retirement pensions and a survivors' pension. In addition, Kemira must have credit insurance from PRI Pensionsgaranti Mutual Insurance Company for the ITP 2 plan pension liability. At the end of 2019, the defined benefit obligations in Sweden totaled EUR 52.3 million (47.1).

# ASSETS AND LIABILITIES OF DEFINED BENEFIT PLANS RECOGNIZED IN THE BALANCE SHEET

EUR million	2019	2018
Present value of defined benefit obligations	323.5	306.7
Fair value of plans' assets	-282.9	-287.9
Surplus (-) / Deficit (+)	40.6	18.7
The effect of asset ceiling	0.9	0.7
Net receivables (-) / liabilities (+) of defined benefit plans recognized in the Balance Sheet	41.5	19.4
Liabilities of defined benefit plans	93.3	81.2
Receivables of defined benefit plans	-51.8	-61.8
Net receivables (-) / liabilities (+) of defined benefit plans recognized in the Balance Sheet	41.5	19.4
AMOUNTS OF DEFINED BENEFIT PLANS RECOGNISED IN THE INCOME STATEMENT		
Service costs	3.1	2.7
Net interest cost 1)	0.9	1.0
Defined benefit plans' expenses (+) / income (-) in the Income Statement	3.9	3.7

<sup>1)</sup> Net interest costs are presented in net finance costs, in the Consolidated Income Statement.

#### DEFINED BENEFIT PLANS RECOGNIZED IN THE OTHER COMPREHENSIVE INCOME

EUR million	2019	2018
Items resulting from remeasurements of defined benefit plans 2)		
Actuarial gains (-) / losses (+) in defined benefit obligations arising from changes in demographic assumptions	-0.1	0.1
Actuarial gains (-) / losses (+) in defined benefit obligations arising from changes in financial assumptions 3)	26.8	-13.7
Actuarial gains (-) / losses (+) in defined benefit obligations arising from experience based assumptions	0.6	-4.3
Actuarial gains (-) / losses (+) in plan assets 3)	-21.1	4.6
Effect from asset ceiling	0.2	0.0
Defined benefit plans' expenses (+) / income (-) in the other comprehensive income	6.3	-13.3

<sup>2)</sup> The remeasurements of defined benefit plans are included in the Statement of Comprehensive Income as part of other comprehensive income. The item has been disclosed net of tax and the related income tax is disclosed in Note 2.8. Other comprehensive income.

#### CHANGES IN PLAN ASSETS OVER THE PERIOD IN DEFINED BENEFIT PLANS

EUR million	2019	2018
Defined benefit obligation on Jan 1	306.7	343.9
Current service costs	2.6	2.3
Interest costs	5.4	5.2
Actuarial losses (+) / gains (-)	27.3	-17.9
Exchange differences on foreign plans	-0.3	-2.2
Benefits paid	-17.7	-18.5
Transfers to DC component 4)	0.0	-6.1
Past service costs	0.0	0.0
Other items	-0.5	0.1
Present value of defined benefit obligations on Dec 31	323.5	306.7

#### CHANGES IN PLAN ASSETS OVER THE PERIOD IN DEFINED BENEFIT PLANS

EUR million	2019	2018
Fair value on Jan 1	287.9	310.4
Interest income	4.5	4.2
Contributions	0.6	0.5
Return of surplus assets 4)	-15.0	0.0
Actuarial losses (-) / gains (+)	21.1	-4.6
Exchange differences on foreign plans	0.5	-0.5
Benefits paid	-14.4	-15.5
Transfers to DC component 4)	-1.4	-6.5
Other items	-0.8	-0.2
Fair value of plan assets on Dec 31	282.9	287.9

4) In Canada, the defined benefit (DB) pension plan has been converted to a defined benefit contribution plan. DB pension obligations have been transferred to an insurance company. Due to the DB plan surplus position, the winding up of the DB plan has generated a settlement loss in profit or loss of EUR 0.2 million in the 2018 Financial Statements.

5) In Q1/2019, Pension Fund Neliapila paid to a surplus return of EUR 15 million to Kemira Group companies.

#### PLAN ASSETS BY ASSET CATEGORY IN DEFINED BENEFIT PLANS

EUR million	2019	2018
Interest rate investments and other assets	174.3	224.9
Shares and share funds	83.3	38.2
Properties occupied by the Group	23.7	23.7
Kemira Oyj's shares	1.5	1.1
Total assets	282.9	287.9

The Finnish Pension Fund Neliapila has most of the defined benefit plan's assets. At the end of 2019, the Pension Fund Neliapila's assets amounted to EUR 267.5 million (272.6), which consisted of interest rate investments and other assets of EUR 162.6 million (212.5), shares and share funds of EUR 79.8 million (35.2), properties of EUR 23.7 million (23.7) and Kemira Oyj's shares of EUR 1.5 million (1.1). In the Pension Fund Neliapila, the investment position is managed within an asset-liability matching (ALM) framework that has been developed to combine long-term investments in line with the obligations under the pension plan. In Pension Fund Neliapila, a market risk can be considered a significant investment risk. The

<sup>3)</sup> In 2019 and 2018, the actuarial gains and losses are mainly due to return on assets and change in the discount rate in Pension Fund Neliapila.

**kemira** 

market risk arising from cyclical fluctuations of the financial market, is managed by ensuring that the investment position is sufficiently diversified.

The income (+) / expense (-) of the actual returns on the plan assets of the Group's defined benefit plan were EUR 25.6 million (-0.4).

#### SIGNIFICANT ACTUARIAL ASSUMPTIONS

%	2019	2018
Discount rate	0.8-3.1	1.6-3.1
Inflation rate	1.2-3.0	1.1-2.5
Future salary increases	1.2-2.5	1.4-2.8
Future pension increases	0.7-2.3	0.8-2.5

The significant assumptions used in calculating the obligations of the Finnish Pension Fund Neliapila were as follows: discount rate 0.8% (1.6%), inflation rate 1.2% (1.4%), future salary increases 1.2% (1.4%) and future pension increases 1.5% (1.7%).

# Sensitivity analysis

The sensitivity analysis is based on keeping other assumptions constant when one assumption is changed. In practice, this is unlikely to occur and changes in some of the assumptions may correlate with each other. When calculating the sensitivity of the defined benefit obligation to significant actuarial assumptions, the same method has been applied as when calculating the pension liability recognized within the balance sheet.

If the discount rate would be 0.5 percentage points lower in all of the significant countries, the defined benefit obligation would increase by EUR 19.8 million (6.1%), if all other assumptions were held constant.

### SENSITIVITY ANALYSIS - PENSION FUND NELIAPILA IN FINLAND

	Defined benefit obligation		Impact on defined benefit obligation	
EUR million	2019	2018	2019	2018
Discount rate 0.8% (2018: 1.6%)	215.9	212.3		
Discount rate +0.5%	203.9	200.8	-5.6%	-5.4%
Discount rate -0.5%	229.2	225.0	6.2%	6.0%
Future pension increases 1.5% (2018: 1.7%)	215.9	212.3		
Future pension increases +0.5%	227.8	223.6	5.5%	5.4%
Future pension increases -0.5%	205.0	201.9	-5.0%	-4.9%

A change in mortality assumption in which life expectancy is increased by one year will increase the defined benefit obligation by EUR 9.9 million (4.6%).

#### SENSITIVITY ANALYSIS - ITP 2 PENSION PLAN IN SWEDEN

	Defined benefit obligation		Impact on defined benefit obligation	
EUR million	2019	2018	2019	2018
Discount rate 1.4% (2018: 2.3%)	52.3	47.1		
Discount rate +0.5%	48.3	43.7	-7.6%	-7.2%
Discount rate -0.5%	56.9	51.0	8.8%	8.3%
Future salary increases 2.3% (2018: 2.5%)	52.3	47.1		
Future salary increases +0.5%	53.5	48.2	2.3%	2.3%
Future salary increases -0.5%	51.2	46.1	-2.1%	-2.1%

A change in mortality assumption in which life expectancy is increased by one year will increase the defined benefit obligation by EUR 2.4 million (4.6%).

Expected contributions to the defined benefit plans for the year ending on December 31, 2020, are EUR 3.1 million.

# ☐ The Group's accounting policies

## Defined benefit pension plans and employee benefits

The Group has different post-employment schemes, including both defined contribution and defined benefit pension plans in accordance with the local legislation and practices of the countries in which it operates. Pension plans are generally funded through contributions to pension insurance companies or a separate pension fund.

A defined contribution plan is a pension plan under which the Group pays fixed contributions into a separate entity. The Group has no legal or constructive obligations to pay further contributions if the fund does not hold sufficient assets to pay all employees the benefits relating to employee service in the current and prior periods. A defined benefit plan is a pension plan that is not a defined contribution plan.

Typically, defined benefit plans define an amount of pension benefit that an employee will receive on retirement, usually dependent on one or more factors such as their compensation level and years of service.

The liability recognized in the balance sheet in respect to the defined benefit pension plans is the present value of the defined benefit obligation at the end of the reporting period less the fair value of plan assets. The defined benefit obligation is calculated annually by independent actuaries using the projected unit credit method. The present value of the defined benefit obligation is determined by discounting the estimated future cash outflows using interest rates of high-quality corporate bonds that are denominated in the currency in which the benefits will be paid, and with their terms to maturity approximating to the terms of the related pension obligation. In countries where there is no deep market in such bonds, the market rates for government bonds are used.

Actuarial gains and losses arising from experience adjustments and changes in actuarial assumptions are charged or credited to equity in other comprehensive income in the period in which they arise.

Current service costs are included in the Consolidated Income Statement in the employee benefit expenses and net interest costs on finance income and finance expense. Past service costs are recognized immediately in profit or loss.

For defined contribution plans, the Group pays contributions to publicly or privately administered pension insurance plans on a mandatory, contractual or voluntary basis. The Group has no further payment obligations once the contributions have been paid. The contributions are recognized as employee benefit expenses when they are due. Prepaid contributions are recognized as an asset to the extent that a cash refund or a reduction in the future payments is available.

# X The items in the financial statements that include significant accounting estimates and accounting policies that require judgment

## Defined benefit pension plans

Determining pension liabilities under defined benefit pension plans includes a number of actuarial assumptions, and significant changes in these assumptions may affect the amounts of pension liabilities and expenses. Actuarial calculations include assumptions by the management, such as the discount rate and assumptions of salary increases and the termination of employment contracts. The pension liability is calculated by independent actuaries.

## 4.6 PROVISIONS

EUR million	Personnel related provisions	Restructuring provisions 1)	Environmental provisions 2)	Other provisions	Total
Non-current provisions					
On January 1, 2019	1.6	0.4	19.9	6.6	28.6
Exchange rate differences	0.0	0.0	0.0	0.0	0.0
Additional provisions and increases in existing provisions	0.1	0.0	6.5	1.1	7.7
Used during the financial year	-0.1	0.0	-1.0	-0.5	-1.6
Unused provisions reversed	0.0	0.0	0.0	-4.0	-4.0
Reclassification	0.1	-0.1	-1.6	0.0	-1.6
On December 31, 2019	1.7	0.3	23.8	3.2	29.1
Current provisions					
On January 1,2019	5.6	1.2	2.4	0.0	9.2
Exchange rate differences	0.0	0.0	0.0	0.0	0.0
Additional provisions and increases in existing provisions	3.3	0.0	4.4	11.5	19.1
Used during the financial year	-6.6	0.0	-0.1	0.0	-6.7
Unused provisions reversed	-0.4	-0.1	-0.1	0.0	-0.5
Reclassification	0.0	-1.0	2.6	0.0	1.6
On December 31, 2019	1.9	0.1	9.1	11.5	22.6

<sup>1)</sup> Restructuring provisions include EUR 1.0 million adjustment related to the adoption of the IFRS 16 Leases standard on January 1, 2019. Further information regarding the standard change is available in Note 1 Group Accounting Policies.

EUR million		2018
Breakdown of the total amount of provisions		
Non-current provisions	29.1	29.6
Current provisions	22.6	9.2
Total	51.7	38.7

# ☐ The Group's accounting policies

### **Provisions**

Provisions for restructuring costs, personnel related costs, environmental obligations, legal claims, and onerous contracts are recognized when the Group has a present legal or constructive obligation as a result of past events, and it is probable that an outflow of resources will be required to settle the obligation, and a reliable estimate of the amount of this obligation can be made. A restructuring provision is recognized when there is a detailed and appropriate plan prepared for it and the implementation of the plan has begun or has been notified to those whom the restructuring concerns.

The amount recognized as a provision is the present value of the expenditure expected to be required to settle the obligation on the balance sheet date using a pre-tax interest rate that reflects current market assessments of the time value of money and the risks specific to the obligation.

# X The items in the financial statements that include significant accounting estimates and accounting policies that require judgment

#### **Provisions**

Recognizing provisions requires the management's estimates, since the precise amount of obligations related to the provisions is not known when preparing the Financial Statements.

<sup>2)</sup> The Group's operations in chemical industry are governed by numerous international agreements and regional and national legislation all over the world. The Group treats its environmental liabilities and risks according to established internal principles and procedures. In 2019, provisions for environmental remediation totaled EUR 32.9 million (22.3). The biggest provisions relate to site closures and reconditioning of the sediment of a lake in Vaasa, Finland.

# 5. CAPITAL STRUCTURE AND FINANCIAL RISKS

## **5.1 CAPITAL STRUCTURE**

EUR million	2019	2018
Equity	1,231.0	1,202.5
Total assets	2,891.0	2,763.8
Gearing, % <sup>1)</sup>	66	62
Equity ratio, % <sup>2)</sup>	43	44

- 1) The definition of the key figure for Gearing is 100 x Interest-bearing net liabilities / Total equity.
- 2) The definition of the key figure for the Equity ratio is 100 x Total equity / (Total assets prepayments received).

#### INTEREST-BEARING NET LIABILITIES

EUR million	Note	2019	2018
Non-current interest-bearing liabilities	5.3.	737.9	646.3
Current interest-bearing liabilities	5.3.	216.6	240.0
Interest-bearing liabilities		954.5	886.3
Cash and cash equivalents	5.4.	143.1	144.9
Interest-bearing net liabilities		811.4	741.4

Quarterly information on interest-bearing net liabilities is disclosed in the section on the Reconciliation of IFRS figures.

Kemira aims at above-the-market revenue growth with an operative EBITDA margin of 15–17%. The gearing target is below 75%. (Before the adoption of the IFRS 16 accounting change as of January 1, 2019, the financial targets were: Kemira aims at above-the-market revenue growth with an operative EBITDA margin of 14–16%. The gearing target is below 60%.) The revolver credit facility agreement contains a covenant according to which company gearing must be below 115%.

The Board of Directors proposes a per-share dividend of EUR 0.56 for 2019 (0.53), corresponding to a dividend payout ratio of 78% (91%). Kemira's dividend policy aims at paying a stable and competitive dividend.

## INTEREST-BEARING NET LIABILITIES CONNECTED IN CASH FLOW STATEMENTS

EUR million	Non-current interestbearing liabilities inclu- ding payments of non-current portion	Current interest- bearing liabilities	Interest- bearing liabilities total	Cash and cash equivalents	Interest- bearing net liabilities
Net book value on Jan 1, 2019 <sup>1)</sup>	883.1	129.5	1,012.6	144.9	867.7
Change in net liabilities with cash flows					
Proceeds from non- current liabilities (+)	40.1	_	40.1	_	40.1
Payments of non- current liabilities (-)	-110.3	_	-110.3	_	-110.3
Payments of lease liabilities (-)	-28.4	0.0	-28.4	_	-28.4
Proceeds from current liabilities (+) and payments (-)	_	2.9	2.9	_	2.9
Change in cash and cash equivalents	_	_	_	-3.4	3.4
Change in net liabilities without cash flows					
Increases in lease liabilities (+)	36.1	_	36.1	_	36.1
Effect on change in exchange gains and losses	-0.5	0.6	0.1	1.5	-1.5
Other changes without cash flows	1.1	0.2	1.4	_	1.4
Net book value on Dec 31, 2019	821.3	133.2	954.5	143.1	811.4

EUR million	Non-current interestbearing liabilities inclu- ding payments of non-current portion	Current interest- bearing liabilities	Interest- bearing liabilities total	Cash and cash equivalents	Interest- bearing net liabilities
Net book value on Jan 1, 2018	740.1	120.4	860.5	166.1	694.4
Change in net liabilities with cash flows					
Proceeds from non- current liabilities (+)	96.2	_	96.2	_	96.2
Payments of non- current liabilities (-)	-69.2	_	-69.2	_	-69.2
Proceeds from current liabilities (+) and payments (-)	_	10.3	10.3	_	10.3
Change in cash and cash equivalents	_	_	_	-21.2	21.2
Change in net liabilities without cash flows					
Effect on change in exchange gains and losses	-3.3	-0.9	-4.2	-0.1	-4.1
Other changes without cash flows	-7.1	-0.2	-7.3	0.1	-7.4
Net book value on Dec 31, 2018	756.8	129.5	886.3	144.9	741.4

<sup>1)</sup> Net book value on 1.1.2019 includes EUR 126.3 million adjustment related to the adoption of the IFRS 16 Leases standard on January 1, 2019. Further information regarding the standard change is available in Note 1.

# $\square$ The Group's accounting policies

# Interest-bearing liabilities and cash and cash equivalents

The accounting policies for interest-bearing liabilities and cash and cash equivalents are described in Note 5.4. Financial assets and liabilities by measurement categories.

### **Dividend distribution**

Any dividend proposed by the Board of Directors is not deducted from distributable equity until it has been approved by the Annual General Meeting.

# **5.2 SHAREHOLDERS' EQUITY**

#### SHARE CAPITAL AND TREASURY SHARES

EUR million	Number of shares outstanding (1,000)	Number of treasury shares (1,000)	Number of shares (1,000)	Book value of share capital	Book value of treasury shares
January 1, 2019	152,510	2,832	155,343	221.8	19.1
Treasury shares issued to the participants in the long-term share incentive plan 2018	141	-141	_	_	-1.0
Treasury shares issued to the Board of Directors	11	-11	_	_	-0.1
The shares returned by participants from the long-term share incentive plans	-13	13	_	_	0.1
December 31, 2019	152,649	2,693	155,343	221.8	18.1
January 1, 2018	152,354	2,989	155,343	221.8	20.1
Treasury shares issued to the participants in the long-term share incentive plan 2017	149	-149	_	_	-1.0
Treasury shares issued to the Board of Directors	10	-10	_	_	-0.1
The shares returned by participants from the long-term share incentive plan 2017	-3	3	_	_	0.0
December 31, 2018	152,510	2,832	155,343	221.8	19.1
			•		

Kemira Oyj has one class of shares. Each share entitles its holder to one vote at the Annual General Meeting. On December 31, 2019, the share capital was EUR 221.8 million and the number of shares was 155,342,557 including 2,693,111 treasury shares. Under the Articles of Association of Kemira Oyj, the company does not have a minimum or maximum share capital or a par value for a share. All issued shares have been fully paid.

Kemira had possession of 2,693,111 (2,832,297) treasury shares on December 31, 2019. The average share price of the treasury shares was EUR 6.73 and they represented 1.7% (1.8%) of the share capital, and the aggregate number of votes conferred by all shares. The aggregate par value of the treasury shares is EUR 3.8 million.

# Share premium

The share premium is a reserve accumulated through subscriptions that are entitled by the management stock option program of 2001. This reserve is based on the old Finnish Companies Act (734/1978), and the value of reserve will not change anymore.

#### Fair value reserves

The fair value reserve is a reserve accumulated based on other shares measured at fair value and hedge accounting.

## Other reserves

Other reserves originate from local legal requirements. On December 31, 2019, other reserves were EUR 3.8 million (3.9).

# Unrestricted equity reserve

The unrestricted equity reserve includes other equity type investments and the subscription price of shares to the extent that they will not, based on a specific decision, be recognized in share capital.

# **Exchange differences**

The foreign currency exchange differences arise from the translation of foreign subsidiaries' financial statements. Additionally, loans have been granted to some foreign subsidiaries, and the exchange differences of these have been included in foreign currency exchange differences.

# ☐ The Group's accounting policies

## Treasury shares

Purchases of own shares (treasury shares), including the related costs, are deducted directly from equity in the Consolidated Financial Statements.

## **5.3. INTEREST-BEARING LIABILITIES**

## MATURITY OF INTEREST-BEARING LIABILITIES

2019, EUR million	2020	2021	2022	2023	2024	2025 -	Book value, total
Loans from financial institutions	55.0	_	_	148.5	_	130.2	333.7
Bonds	_	_	150.0	_	195.7	_	345.7
Lease liabilities	28.4	24.0	16.8	13.9	8.7	42.4	134.1
Other non-current liabilities	_	1.6	_	6.1	_	_	7.7
Other current liabilities	133.0	_	_	_	_	_	133.0
Total amortizations of interest- bearing liabilities	216.5	25.6	166.8	168.5	204.4	172.6	954.5

2018, EUR million	2019	2020	2021	2022	2023	2024 -	Book value, total
Loans from financial institutions	10.4	55.4	_	_	148.1	90.0	303.9
Bonds	100.0	_	_	150.0	_	194.8	444.8
Finance lease liabilities	0.0	0.0	_	_	_	_	0.1
Other non-current liabilities	_	1.8	_	_	6.1	_	7.9
Other current liabilities	129.5	_	_	_	_	_	129.5
Total amortizations of interest- bearing liabilities	240.0	57.2	0.0	150.0	154.2	284.8	886.3

At the year end 2019, the Group's interest-bearing net liabilities were EUR 811.4 million (741.4). For more information, see Note 5.1. Capital structure.

#### MATURITY OF NON-CURRENT INTEREST-BEARING LIABILITIES BY CURRENCIES

2019							Book value,
Currency, EUR million	2020	2021	2022	2023	2024	2025 -	total
EUR	63.5	8.4	153.5	150.8	197.5	103.1	676.7
USD	14.4	13.5	11.4	10.6	6.1	55.3	111.4
GBP	0.3	0.2	0.1	0.1	0.1	10.4	11.2
Other	5.3	3.5	1.8	7.1	0.8	3.7	22.2
Total	83.5	25.6	166.8	168.5	204.4	172.6	821.6

0.1



#### CONSOLIDATED FINANCIAL STATEMENTS (IFRS) | PART OF THE AUDITED FINANCIAL STATEMENTS 2019

2018							Book value,
Currency, EUR million	2019	2020	2021	2022	2023	2024 -	total
EUR	110.2	57.2	_	150.0	148.1	284.8	750.3
USD	_	_	_	_	_	_	_
Other	0.2	_	_	_	6.1	_	6.3
Total	110.4	57.2	0.0	150.0	154.2	284.8	756.6

#### FINANCE LEASE AGREEMENTS UNDER IAS 17 STANDARD

Total present value of finance lease liabilities

EUR million	2018
Acquisition cost - capitalized finance leases	3.5
Accumulated depreciation	-3.1
Book value on Dec 31	0.4
Maturity of minimum lease payments	
No later than 1 year	0.0
1-5 years	0.0
Later than 5 years	_
Total minimum lease payments	0.1
Present value of finance lease liabilities	
Total minimum lease payments	0.1
Future finance charges on finance leases	0.0
Total	0.1
Maturity of the present value of finance lease liabilities	
No later than 1 year	0.0
1-5 years	0.0
Later than 5 years	_

The Group leases buildings and constructions, machinery and equipment and other property, plant and equipment under finance lease agreements. Commitments related to other lease agreements than finance leases are disclosed in Note 7.1. Commitments and contingent liabilities.

# ☐ The Group's accounting policies

#### Finance lease under IAS 17 standard

Leases involving tangible assets, in which the Group acts as a lessee, are classified as finance leases if all of the risks and rewards of ownership transfer substantially to the Group.

At the commencement of the lease term, the finance lease assets are recognized at the lower of the fair value of the leased asset and the present value of the minimum lease payments. These assets and related rental obligations are presented as part of the Group's non-current assets and interest-bearing liabilities. In respect to the finance lease agreements, depreciation on the leased assets and interest expenses from the associated liability are shown in the income statement. Rents paid on the basis of operating leases are expensed on a straight-line basis over the lease terms.

When the Group is a lessor, it recognizes assets held under the finance lease as receivables in the balance sheet. Assets held under operating leases are included in property, plant and equipment.

Also arrangements that are not leases in their legal form, but convey the rights to use assets in return for a payment or series of payments are treated as leases.

# 5.4. FINANCIAL ASSETS AND LIABILITIES BY MEASUREMENT CATEGORIES

## FINANCIAL ASSETS

**Kemira** 

		Book _		2019 Fair va	lues		Book _		2018 Fair va	lues	
EUR million	Note	values	Level 1	Level 2	Level 3	Total	values	Level 1	Level 2	Level 3	Total
Fair value through profit and loss	5.6.										
Derivatives not qualifying for hedge accounting		1.7	_	1.7	_	1.7	2.1	_	2.1	_	2.1
Fair value through other comprehensive income	5.6.										
Derivatives qualifying for hedge accounting											
Cash flow hedges		8.2	_	8.2	_	8.2	27.8	_	27.8	_	27.8
Fair value hedges		_	_	_	_	_	1.7	_	1.7	_	1.7
Other shares	3.5.										
The shares of Pohjolan Voima Group		243.4	_	_	243.4	243.4	226.9	_	_	226.9	226.9
Other non-listed shares		1.7	_	_	1.7	1.7	1.4	_	_	1.4	1.4
Amortized cost											
Other non-current assets 1)		2.0	_	2.0	_	2.0	2.3	_	2.3	_	2.3
Current interest-bearing loan receivables 1)		0.2	_	0.2	_	0.2	0.2	_	0.2	_	0.2
Trade receivables 1)	4.2.	308.4	_	308.4	_	308.4	307.3	_	307.3	_	307.3
Cash and cash equivalents											
Cash in hand and at bank accounts		132.4	_	132.4	_	132.4	135.6	_	135.6	_	135.6
Deposits and money market investments 2)		10.7	_	10.7	_	10.7	9.3	_	9.3	_	9.3
Total financial assets		708.7	_	463.6	245.2	708.7	714.7	_	486.3	228.4	714.7

<sup>1)</sup> In 2019, other non-current assets and current interest-bearing loan receivables include expected credit losses of EUR 0.4 million in accordance with the IFRS 9 standard. Trade receivables include expected credit losses of EUR 0.6 million. Trade receivables are disclosed in more detail in Note 4.2. Trade receivables and other receivables.

<sup>2)</sup> Deposits and money market investments comprise bank deposits and other liquid investments with a maximum original maturity of three months.



## FINANCIAL LIABILITIES

				2019					2018		
		Book _		Fair va	lues		Book _		Fair va	lues	
EUR million	Note	values	Level 1	Level 2	Level 3	Total	values	Level 1	Level 2	Level 3	Total
Fair value through profit and loss	5.6.										
Derivatives not qualifying for hedge accounting		3.8	_	3.8	_	3.8	2.2	_	2.2	_	2.2
Fair value through other comprehensive income	5.6.										
Derivatives qualifying for hedge accounting											
Cash flow hedges		0.4	_	0.4	_	0.4	1.3	_	1.3	_	1.3
Amortized cost											
Interest-bearing liabilities	5.3.										
Non-current loans from financial institutions		278.7	_	290.2	_	290.2	293.1	_	314.2	_	314.2
Current portion		55.0	_	57.0	_	57.0	10.2	_	8.0	_	8.0
Bonds		345.7	_	362.5	_	362.5	345.2	_	357.0	_	357.0
Current portion		_	_	_	_	_	100.0	_	102.6	_	102.6
Non-current leasing liabilities		105.7	_	105.7	_	105.7	_	_	_	_	_
Current portion		28.4	_	28.4	_	28.4	_	_	_	_	_
Other non-current liabilities		7.7	_	8.0	_	8.0	8.0	_	_	_	0.0
Current portion		_	_	_	_	_	0.2	_	_	_	0.0
Current loans from financial institutions		133.2	_	138.0	_	138.0	129.5	_	136.0	_	136.0
Non-interest-bearing liabilities											
Other non-current liabilities		8.3	_	8.3	_	8.3	29.0	_	29.0	_	29.0
Other current liabilities		25.4	_	25.4	_	25.4	27.4	_	27.4	_	27.4
Trade payables	4.3.	188.2	_	188.2	_	188.2	179.9	_	179.9	_	179.9
Total financial liabilities		1,180.5	_	1,215.9	_	1,215.9	1,126.0	_	1,157.6	_	1,157.6

There were no transfers between levels 1–3 during the financial year.

Level 3 specification, financial assets EUR million	2019	2018
Net book value on Jan 1	228.4	235.8
Effect on other comprehensive income	16.6	-7.5
Increases	0.3	_
Decreases	_	_
Net book value on Dec 31	245.2	228.4

# ☐ The Group's accounting policies

When a financial asset or a financial liability is initially recognized on the trade date, it is measured at cost, which equals the fair value of the consideration given or received.

#### **Financial Assets**

**kemira** 

The Group's financial assets are classified for subsequent measurement as financial assets at fair value through profit or loss, at amortized cost and at fair value through other comprehensive income.

Category	Financial instrument
Fair value through profit or loss	Currency forward contracts, currency swaps, interest rate swaps, electricity forwards, electricity futures, electricity options, certificates of deposit and commercial papers
Amortized cost	Non-current loan receivables, cash in hand and at bank accounts, bank deposits, trade receivables and other receivables
Fair value through other comprehensive income	Other investments: shares; derivatives quali- fying for hedge accounting (cash flow or fair value hedging)

## Financial assets at fair value through income statements

All derivatives are recognized at fair value in the balance sheet. Fair value is the amount for which an asset could be exchanged or loans paid between knowledgeable, willing parties

in an arm's length transaction. These derivative contracts to which hedge accounting in accordance with IFRS 9 is not applied are classified as financial assets at fair value through profit or loss. In the balance sheet, these derivative contracts are shown under prepaid expenses and accrued income and accrued expenses and prepaid income. Any gains or losses arising from changes in fair value are recognized through profit or loss on the transaction date.

#### Financial assets at amortized cost

Financial assets at amortized cost include non-current receivables carried at amortized cost using the effective interest rate method and accounting for any impairment.

#### Cash and cash equivalents

Cash and cash equivalents consist of cash in hand and cash in bank accounts, demand deposits and other short-term, highly liquid investments. Items classified as cash and cash equivalents have a maximum maturity of three months from the date of purchase. Credit facilities in use are included in current interest-bearing liabilities.

## Financial assets at fair value through other comprehensive income

The accounting policy of Other shares is described in Notes 3.5. Other shares. The accounting treatment of change in the fair value of the derivatives qualifying for hedge accounting is presented in 5.6. Derivatives.

## Impairment of financial assets

The Group assesses any impairment losses on its financial instruments on each balance sheet date. An impairment of a financial asset is recognized in accordance with the requirements of expected credit loss model of the IFRS 9 standard. For items measured at an amortized cost, the amount of the impairment loss equals the difference between the asset's carrying amount and the present value of estimated future cash flows from the receivable. This is discounted at the financial asset's original effective interest rate. For items measured at fair value, the fair value determines the amount of impairment. Impairment charges are recognized in the income statement.

CORPORATE SUSTAINABILITY

The Group sells certain trade receivables to finance companies within the framework of limits stipulated in the agreement. The credit risk associated with these sold receivables and contractual rights to the financial assets in question are transferred from the Group on the selling date. The related expenses are recognized in the financial expenses.

#### Financial liabilities

Financial liabilities are classified as financial liabilities accounted at fair value through profit or loss, at amortized cost and at fair value through other comprehensive income. Financial liabilities at fair value through profit or loss include derivatives to which hedge accounting is not applied, whereas derivatives which are qualified for hedge accounting are booked at fair value through other comprehensive income.

Other financial liabilities are initially recognized in the balance sheet at the initial value of received net assets with direct costs deducted. Later, these financial liabilities are measured at amortized cost, and the difference between the received net assets and amortizations is recognized as an interest cost over the loan term. Changes in the fair value of loans under fair value hedge accounting are booked in the income statement together with the changes in the fair value of derivatives under fair value hedge accounting.

If the terms of a loan measured at amortized cost are modified and the loan is not derecognized, the gain or loss of the modification is booked in the income statement at the point of modification and amortized over the life of the modified loan. Profit or loss is equal to the difference between the present value of the cash flows under the original and modified terms discounted at the original effective interest rate.

Category	Financial instrument
Financial liabilities at fair value through profit or loss	Currency forward contracts and currency swaps, interest rate swaps, electricity forwards, electricity futures and electricity options
Amortized cost	Current and non-current loans, pension loans, bonds, lease liabilities and trade payables
Financial liabilities at fair value through other comprehensive income	Derivatives qualifying for hedge accounting (cash flow hedging)

The following levels are used to measure the fair values:

Level 1: Fair value is determined based on quoted market prices.

Level 2: Fair value is determined with valuation techniques. The fair value refers either to the value that is observable from the market value of elements of the financial instrument or the market value of corresponding financial instruments; or to the value that is observable by using commonly accepted valuation models and techniques if the market value can be reliably measured with them.

Level 3: Fair value is determined by using valuation techniques, which use inputs that have a significant effect on the recorded fair value and the inputs are not based on observable market data. Level 3 mainly includes the shares of Pohjolan Voima Group.

## 5.5 MANAGEMENT OF FINANCIAL RISKS

Kemira Group Treasury's objective is to ensure sufficient funding in the most cost efficient way, and to manage financial risks. Approved by the Board of Directors, treasury policy defines treasury management principles. The Board of Directors approves the annual Treasury plan and the maximum permissible financial risk levels.

Financial risk management aims to protect the Company from unfavorable changes in financial markets, thereby contributing to safeguarding the Company's profit performance and shareholders' equity and to ensure sufficient sources of finance. Management of financial risks is centralized in the Group Treasury, which uses for hedging purposes derivative instruments for which market values and risks can be monitored continuously and reliably.

## Foreign exchange risk

Foreign currency transaction risk arises from currency flows, assets and liabilities denominated in currencies other than the domestic currency. Transaction risks arise from cash flows and balance sheet items where changes in exchange rates will have an impact on earnings and cash flows. Translation risk arises when the currency denominated income and balance sheet items of group companies located outside the euro area are consolidated into euro. The transaction risk is hedged mainly using foreign currency forwards.

The Group's most significant transaction currency risks arise from the Swedish krona, the Canadian dollar and the U.S. dollar. At the end of the year, the denominated exchange rate risk of the Swedish krona against the euro had an equivalent value of approximately EUR 43 million (50), the average hedging rate and hedging ratio being 10.68 and 72% (74%), respectively. The Canadian dollar purchases' denominated exchange rate risk against the U.S. dollar had an equivalent value of approximately EUR 30 million (-), the average hedging rate and ratio being 1.308 and 39 % (-), respectively, and Canadian dollar sales' denominated exchange risk against the US dollar had an equivalent value of approximately EUR 27 million (25), the average hedging rate and ratio being 1.327 and 44 % (24 %), respectively. The Canadian dollar's denominated exchange rate risk against the euro had an equivalent value of approximately EUR 25 million (15), the average hedging rate and hedging ratio

being 1.50 and 52% (69%), respectively. The U.S. dollar denominated exchange rate risk was approximately EUR 91 million (24), the average hedging rate and hedging ratio being 1.128 and 47% (59%), respectively. In addition, Kemira is exposed to smaller transaction risks mainly in relation to the Chinese renminbi, the Brazilian real, the Norwegian krona, Polish zloty, Great Britain pound and the Russian ruble with the annual exposure in those currencies being approximately EUR 108 million.

		20	19		2018				
Transaction exposure, the most significant currencies, EUR million	SEK against EUR	CAD against USD	CAD against EUR	USD against EUR	SEK against EUR	CAD against USD	CAD against EUR	USD against EUR	
Operative cash flow forecast, net 1)	-43.0	-2.8	25.2	91.1	-49.7	25.4	14.7	24.4	
Loans, net	-16.2	_	15.1	278.0	-9.3	_	10.3	327.3	
Derivatives, operative cash flow hedging, net	28.7	0.0	-11.3	-31.6	34.2	-9.6	-9.9	-12.7	
Derivatives, hedging of loans, net	16.3	_	-15.1	-22.3	8.8	_	-10.3	-76.1	
Total	-14.2	-2.8	13.9	315.2	-16.0	15.8	4.8	262.9	

<sup>1)</sup> Based on a12-month foreign currency operative cash flow forecast.

At the end of 2019, the foreign currency operative cash flow forecast for 2020 was EUR 344 million of which 44% was hedged (50%). The hedge ratio is monitored daily. A minimum of 40% and a maximum of 100% of the forecast flow must always be hedged. A 10 percent weakening of the Swedish krona against the euro, based on the exchange rates as of December 31, 2019 and without hedging, would increase EBITDA approximately EUR 4 million, whereas a 10 percent weakening of the Canadian dollar and the U.S. dollar without hedging would cause negative impacts of EUR 2 million and EUR 8 million on EBITDA, respectively. A corresponding increase in the exchange rates would have an approximately equal opposite impact.

On the balance sheet date, the market value of currency derivatives was EUR 0.6 million (0.2) and this was included in cash flow hedge accounting. Cash flow hedge accounting deals have been done to hedge highly probable currency flows.

The most significant translation risk currencies are the U.S. dollar, the Swedish krona, the Canadian dollar, the Brazilian real and Polish zloty.

Kemira's main equity items denominated in foreign currencies are in the Canadian dollar, the Swedish krona and U.S. dollar. The objective is to hedge the balance sheet risk by maintaining a balance between foreign currency denominated liabilities and assets, currency by currency. In hedging the net investment in its units abroad, Kemira monitors the equity ratio. Longterm loans and currency derivatives can be used for hedging net investments in foreign subsidiaries. These hedges do not apply to hedge accounting. Loans in U.S. dollars have been granted to some foreign subsidiaries, and currency differences have been included in foreign currency translation differences.

#### Interest rate risk

Kemira is exposed to interest rate risks when fixing interest rates of floating rate loans and through fair value changes of bonds and derivatives. A total of 87% of the Group's entire net debt portfolio was fixed at the end of 2019. This included lease liabilities due to the adoption of IFRS 16, and the effect of interest derivatives. In the previous year, fixed-rate loans accounted for 79% of the net debt portfolio without lease liabilities. The net financing cost of the Group was 4.4% (3.4%). The net financing cost is attained by dividing yearly net interest and other financing expenses, excluding exchange rate differences and dividends by the average interest bearing net debt figure for the corresponding period. The most significant impact on the net financing cost arises from variation in the interest rate levels of the euro, the U.S. dollar and the Chinese renminbi.

In accordance with the treasury policy, the Group's interest rate risk is measured with the duration which describes the average repricing moment of the loan portfolio excluding lease liabilities. The duration must be in the range of 6–60 months. The Kemira Group Treasury manages duration by borrowing with fixed and floating rate loans in addition to the interest rate derivatives. The duration of the Group's interest-bearing loan portfolio excluding lease liabilities was 26 months at the end of 2019 (31). Excluding the interest rate derivatives, the duration was 25 months (29).

The table below shows the time for interest rate fixing of the loan portfolio.

2019				
Time to interest rate fixing, EUR million	<1 year	1-5 years	> 5 year	Total
Floating net liabilities	107.3	_	_	107.3
Fixed net liabilities 1)	130.0	350.0	90.0	570.0
Total	237.3	350.0	90.0	677.3

#### 2018

Time to interest rate fixing,		1–5		
EUR million	<1 year	years	> 5 year	Total
Floating net liabilities	156.4	_	_	156.4
Fixed net liabilities	15.0	280.0	290.0	585.0
Total	171.4	280.0	290.0	741.4

1) Excluding lease liabilities

On the balance sheet date, the average interest rate of the loan portfolio excluding interest rate hedges was approximately 1.9% (1.9%). If interest rates rose by one percentage point on January 1, 2020, the resulting interest expenses before taxes incurred by the Group over the next 12 months would increase by approximately EUR 1.0 million (1.2). Consequently, a decrease of one percentage point would decrease interest expenses by EUR 0.1 million. During 2020, Kemira will reprice 35% (32%) of the Group's net debt portfolio, including derivatives.

All interest rate swaps are used to hedge the Group's loan portfolio. On the balance sheet date, outstanding interest rate derivatives did not fulfill the criteria for hedge accounting set out in IFRS 9, and the ineffective portion of market value of EUR 0.5 million (-) was booked from Other comprehensive income to finance expenses. In 2018, market value of interest rate derivatives related to cash flow hedging was EUR -1.3 million and fair value hedges was EUR 1.7 million. One percentage point increase in interest rates would positively affect market valuation of interest rate swaps of EUR 0.2 million (0.5).

# **Electricity price risk**

The price of electricity varies greatly according to the market situation. Kemira Group takes hedging measures with respect to its electricity purchases in order to even out the raw material costs. In line with its hedging policy, the Group hedges its existing sales agreements in such a way that the hedges cover the commitments made. The company primarily uses electricity derivatives on the power exchange as hedging instruments. Currency and regional price risks connected with hedges are hedged by making agreements in Finland, mainly in HELEUR amounts and, in Sweden, mainly in MALSEK amounts. The outstanding electricity derivatives are treated in accordance with cash flow hedge accounting, as discussed above. The forecast for physical deliveries of the underlying assets, or purchases, are not recorded until the delivery period. A +/- 10% change in the market price of electricity hedging contracts would impact the valuation of these contracts EUR +/- 6.0 million (+/- 8.3). This impact would be mainly in equity.

## Credit risk

The Group is exposed to credit risks through commercial accounts receivables, as bank account balances, deposits, short-term investments and derivatives.

The Group's treasury policy defines the credit rating requirements for counterparties of investment activities and derivative agreements as well as the related investment policy. The Group seeks to minimize its counterparty risk by dealing solely with counterparties that are financial institutions with a solid credit rating, as well as by spreading agreements among them.

The counterparty risk in treasury operations is due to the fact that a contractual party to a financing transaction is not necessarily able to fulfill its contractual obligations. Risks are mainly related to investment activities and the counterparty risks associated with derivative contracts.

The Group Treasury approves the new banking relationships of subsidiaries. Financial institution counterparties, used by the Group Treasury, have a credit rating of at least an investment grade based on Standard & Poor's credit rating information. The maximum risk assignable to the Group's financial institution counterparties on the balance sheet date amounted to EUR 151.2 million (174.4). Kemira monitors its counterparty risk on a monthly basis by defining the maximum risk associated with each counterparty based on the market value of receivables.

Kemira has defined an approved limit for each financial institution. Credit risks associated with financing transactions did not result in credit losses during the financial year.

Kemira has a group wide credit policy related to commercial activities. According to the policy, each customer has a pre-defined risk category and credit limit. These are constantly monitored. Based on the customer evaluation, Kemira decides the applicable payment terms to minimize credit risks. Pre-approved payment terms have been defined at the group level. If necessary, securities and documentary credit, such as letters of credit, are applied. The group does not have any significant credit risk concentrations due to its extensive customer base across the world.

In the USA, Kemira has an accounts receivable purchase facility worth USD 60 million, enabling Group companies in the USA to sell certain account receivables to the counterparty. The credit risk of the accounts receivables is transferred to the financial institutions and 96.7% of the receivables transferred are derecognized from the balance sheet. The amount of outstanding receivables transferred, which also reflects the fair value of the receivables before the transfer was EUR 39.6 million (44.4) on December 31, 2019. The amounts recognized in the balance sheet are EUR 1.3 million (1.7) in assets and EUR 0.5 million (0.8) in liabilities.

# Liquidity and refinancing risks

Kemira's liquidity is secured with cash and cash equivalents, account overdrafts and revolving credit facility. At the end of 2019, the Group's cash and cash equivalents stood at EUR 143.1 million (144.9), of which cash in bank accounts accounted for EUR 132.4 million (135.6) and bank deposits EUR 10.7 million (9.3). In addition, the Group has a revolving credit facility of EUR 400 million which will mature on April 17, 2024 with two one-year extension options. At the turn of the year 2019/2020, the revolving credit facility was undrawn.

The Group has a EUR 600 million domestic commercial paper program enabling it to issue commercial papers with a maximum maturity of one year. At the end of 2019, there were no commercial papers outstanding on the market.

Kemira manages its refinancing risk with a diversified loan portfolio. Long-term financing consists of bonds and bilateral loan agreements with several financial institutions. In

addition, the Group had leasing liabilities in accordance with the IFRS 16 standard of EUR 134.1 million (0) at the end of the year.

According to Group treasury policy, the average maturity of outstanding loans excluding lease liabilities is targeted to be at least 3 years. In addition, the Group must have committed credit facilities to cover planned funding needs, the current portion of long term debt, commercial paper borrowings, and other uncommitted short-term loans in the next 12 months. The average maturity of debt excluding lease liabilities at the end of 2019 was 3.7 years.

#### LOAN STRUCTURE DIVIDED BY TYPE AND MATURITY

2019								
Loan type, EUR million	Undrawn	2020	2021	2022	2023	2024	2025-	Total drawn
Loans from financial institutions	_	55.0	_	_	150.0	_	130.2	335.2
Bonds	_	_	_	150.0	_	200.0	_	350.0
Revolving credit facility	400.0	_	_	_	_	_	_	0.0
Lease liabilities	_	34.8	29.0	20.8	17.1	11.4	83.8	197.0
Commercial paper program	600.0	_	_	_	_	_	_	0.0
Other interest-bearing non- current liabilities	_	_	1.5	_	6.1	_	_	7.6
Other interest-bearing current liabilities	_	132.9	_	_	_	_	_	132.9
Total interest-bearing liabilities	1,000.0	222.8	30.5	170.8	173.2	211.4	214.0	1,022.8

#### 2018

Loan type, EUR million	Undrawn	2019	2020	2021	2022	2023	2024-	Total drawn
Loans from financial institutions	40.0	10.4	55.4	_	_	150.0	90.0	305.9
Bonds	0.0	100.0	_	_	150.0	_	200.0	450.0
Revolving credit facility	400.0	_	_	_	_	_	_	0.0
Finance lease liabilities	_	0.0	0.0	_	_	_	_	0.1
Commercial paper program	600.0	_	_	_	_	_	_	0.0
Other interest-bearing non- current liabilities	_	_	1.8	_	_	6.1	_	7.9
Other interest-bearing current liabilities	_	129.5	_	_	_	_	_	129.5
Total interest-bearing liabilities	1,040.0	240.0	57.3	0.0	150.0	156.1	290.0	893.4

## **5.6 DERIVATIVE INSTRUMENTS**

Nominal values,		Maturity st	ructure		2019	2018
EUR million	2020	2021	2022	2023	Total	Total
Currency derivatives						
Forward contracts	421.1	_	_	_	421.1	358.1
Inflow	228.0	_	_	_	228.0	224.8
of which cash flow hedges	45.1	_	_	_	45.1	11.3
Outflow	193.1	_	_	_	193.1	133.3
of which cash flow hedges	48.3	_	_	_	48.3	6.8
Interest rate derivatives						
Interest rate swaps	130.0	_	_	_	130.0	245.0
of which cash flow hedges	_	_	_	_	_	145.0
of which fair value hedges	_	_	_	_	_	100.0
Other derivatives						
Electricity contracts, bought (GWh)	999.0	657.0	367.9	96.4	2,120.3	2,278.0
Electricity forward contracts	999.0	657.0	367.9	96.4	2,120.3	2,278.0
of which cash flow hedges	999.0	657.0	367.9	96.4	2,120.3	2,278.0

Nominal values of the financial instruments do not necessarily correspond to the actual cash flows between the counterparties, and therefore individual items do not give a fair view of the Group's risk position.

Fair values,		2019		2018			
EUR million	Positive	Negative	Net	Positive	Negative	Net	
Currency derivatives							
Forward contracts	2.7	-3.6	-0.9	2.3	-2.2	0.2	
of which cash flow hedges	1.0	-0.4	0.6	0.2	_	0.2	
Interest rate derivatives							
Interest rate swaps	_	-0.6	-0.6	1.7	-1.3	0.4	
of which cash flow hedges	_	_	_	_	-1.3	-1.3	
of which fair value hedges	_	_	_	1.7	_	1.7	
Other derivatives							
Electricity forward contracts, bought	7.2	_	7.2	27.6	_	27.6	
of which cash flow hedges	7.2	_	7.2	27.6	_	27.6	

# ☐ The Group's accounting policies

#### **Derivatives**

The fair values of currency, interest rate and commodity derivatives, as well as publicly traded shares are based on prices quoted in active markets on the balance sheet date. The value of other financial instruments measured at fair value is determined on the basis of valuation models using information available in the financial market.

All the derivatives are measured at their fair values on the balance sheet date. Changes in the value of forward contracts are calculated by measuring the contracts against the forward exchange rates on the balance sheet date and comparing them with the counter values calculated through the forward exchange rates on the date of entry into the forward contracts. The fair value of interest rate derivatives is determined using the market value of similar instruments on the balance sheet date. Other derivatives are measured at the market price on the balance sheet date.

Derivative assets are presented in the balance sheet as part of line item Trade receivables and other receivables. Derivative liabilities are presented in the balance sheet as part of line item Trade payables and other liabilities.

## Hedge accounting

Hedge accounting is applied according to IFRS 9. This refers to a method of accounting aimed at allocating one or more hedging instruments in such a way that their fair value offsets, in full or in part, the changes in the fair value or cash flows of the hedged item. Hedged items must be highly probable. The Group applies hedge accounting for hedging interest rate risk, currency risk, commodity risk and fair value if interest rate swaps, electricity derivatives and foreign exchange derivatives meet hedge accounting criteria.

Hedge effectiveness is monitored as required by IFRS 9. Effectiveness refers to the capacity of a hedging instrument to offset changes in the fair value of the hedged item or cash flows from a hedged transaction, which are due to the realization of the risk being hedged. A hedging relationship is considered to be highly effective when the change in the fair value of the hedging instrument offsets changes in the cash flows attributable to the hedged items. Hedge effectiveness is assessed prospectively. Hedge effectiveness testing is repeated on each balance sheet date.

Hedge accounting is discontinued when the criteria for hedge accounting are no longer fulfilled. Gains or losses recognized in other comprehensive income and presented under equity are derecognized and transferred immediately in the income statement, if the hedged item is sold or falls due. However, gains or losses arising from changes in the fair value of those derivatives not fulfilling the hedge accounting criteria are recognized directly in the income statement.

At the inception of a hedge, the Group documents the existence of the economic relationship of the hedged item and hedging instrument, including the identification of the hedging instrument, the hedged item or transaction, the nature of the risk being hedged, the objectives of risk management and the strategy for undertaking hedging, as well as the description of how hedge effectiveness is assessed.

## Cash flow hedging

Cash flow hedging is used to hedge against variability in cash flows attributable to a particular risk associated with a recognized asset or liability in the balance sheet or a highly probable forecast transaction. Currency, interest rate, and commodity derivatives are used as hedging instruments in cash flow hedging. Cash flow hedge accounting, specified in IFRS 9, is applied by the Group to only selected hedging items. Changes in the fair value of derivative instruments associated with cash flow hedge are recognized in other comprehensive income (including the tax effect) and presented under equity, providing that they fulfill the criteria set for hedge accounting and are based on effective hedging. The ineffective portion of the gain or loss on the hedging instrument is recognized under financial items in the income statement. Derivatives not fulfilling the hedge accounting criteria are recognized in financial items through profit or loss.

## Fair value hedging

Fair value hedges are related to a fixed rate bond loan. Interest rate derivatives are used as instruments in fair value hedging. Change in fair value of the hedging derivative contracts are recognized in the income statement and the hedged item's book value is adjusted through profit or loss to the extent that the hedge is effective.

## 6. GROUP STRUCTURE

## **6.1 RELATED PARTIES**

Parties are considered to be related if one party has the ability to control or exercise significant influence on the other party, or if the parties exercise joint control in making financial and operating decisions. The Group's related parties include the parent company, subsidiaries, associates, joint-ventures and the Pension Fund Neliapila. Related parties also include the members of the Board of Directors and the Group's Management Board, the CEO and his Deputy, and their immediate family members.

#### EMPLOYEE BENEFITS OF CEO, DEPUTY CEO AND MEMBERS OF MANAGEMENT BOARD

	Salaries and other bene- fits, EUR	Bonuses, EUR	Share- based payments, EUR <sup>1)</sup>	2019 Total, EUR	2018 Total, EUR
CEO Jari Rosendal	707,620 4)	90,720	311,539	1,109,879	1,021,520
Deputy CEO Jukka Hakkila <sup>2)</sup>	183,728	21,279	109,039	314,045	329,940
Other members of Management Board <sup>3)</sup>	1,752,206	228,536	730,850	2,711,592	2,835,124
Total	2,643,554	340,535	1,151,428	4,135,516	4,186,584

<sup>1)</sup> Share-based incentive plans for the management and key personnel are disclosed in Note 2.3. Share-based

# **Employment terms and conditions of the CEO**

Remuneration of the CEO comprises a monthly salary including a car benefit and a mobile phone benefit as well as supplementary defined contribution pension and performancebased incentives. The performance-based incentives consist of an annual short-term bonus plan and a long-term share incentive plan. The annual short-term bonus plan is based on terms approved by the Board of Directors and the maximum bonus is 70% of the annual base

<sup>2)</sup> Jukka Hakkila is not a member of the Management Board.

<sup>3)</sup> Other members of the Management Board who are employed by a Finnish Kemira company do not have any supplementary pension arrangements in addition to their statutory pensions. The members of the Management Board who are employed by a foreign Kemira company participate in the pension systems based on statutory pension arrangements and market practices in their local countries. The Kemira policy is that all new supplementary pension arrangements are defined contribution plans.

<sup>4)</sup> Including supplementary defined contribution pension.

salary. The long-term share incentive plan is based on the terms of the plan. The maximum reward is determined as a number of shares and a cash portion intended to cover taxes and the tax-related costs arising from the reward.

The CEO belongs to the Finnish Employees' Pension Act (TyEL) scheme, which provides pension security based on the years of service and earnings as stipulated by law. The CEO is also entitled to a supplementary defined contribution pension plan. The supplementary pension is defined as 20% of annual base salary. The retirement age of the CEO is 63 years.

A mutual termination notice period of six months applies to the CEO. The CEO is entitled to an additional severance pay of 12 months' salary, if the company terminates his service.

## The board of directors' emoluments

On March 21, 2019, the Annual General Meeting decided that the Board of Directors' annual fee shall be paid as a combination of the company's shares and cash in such a manner that 40% of the annual fee is paid with the Kemira shares owned by the company or, if this is not possible, then with Kemira shares acquired from the securities market, and 60% is paid in cash. On May 8, 2019 the 10,864 shares owned by the company were distributed to the members of the Board of Directors.

There are no special terms or conditions associated with owning the shares received as the annual fee. The members of the Board of Directors are not eligible for any short-term bonus plans, long-term share incentive plans or supplementary pension plans of Kemira Oyj.

The meeting fees are paid in cash and travel expenses are paid according to Kemira's travel policy.

#### MEMBERS OF THE BOARD OF DIRECTORS

	Number of shares	Share value, EUR	Cash compensation, EUR 5)	2019 Total, EUR	2018 Total, EUR
Jari Paasikivi, Chairman	2,993	37,224	64,976	102,200	91,489
Kerttu Tuomas, Vice Chairman	1,789	22,250	40,550	62,800	57,087
Wolfgang Büchele	1,431	17,797	37,003	54,800	48,351
Shirley Cunningham	1,431	17,797	47,803	65,600	57,951
Timo Lappalainen	1,789	22,250	42,950	65,200	60,687
Kaisa Hietala	1,431	17,797	34,003	51,800	47,151
Total	10,864	135,114	267,286	402,400	362,716

<sup>5)</sup> Includes both annual fees and meeting fees.

### TRANSACTIONS CARRIED OUT WITH RELATED PARTIES

EUR million	2019	2018
Revenue		
Associated companies	1.1	1.4
Leases, purchases of goods and services		
Associated companies	0.0	0.0
Pension Fund Neliapila	1.3	1.2
Total	1.3	1.2
Receivables		
Associated companies	_	0.1
Liabilities		
Pension Fund Neliapila	2.5	_

Real estate owned by the Pension Fund Neliapila are leased to the Group. Commitments for these real estate leases are treated in accordance with IFRS 16 Leases from January 1, 2019.

Related parties include the Pension Fund Neliapila, which is a separate legal entity. Neliapila manages Kemira's voluntarily organized additional pension fund. It also manages part of the pension assets of the Group's personnel in Finland. The assets include Kemira shares representing 0.07% of the company's outstanding shares. Supplementary benefit in Neliapila and the paid return surplus of EUR 15 million to Kemira Group companies in Q1/2019 are disclosed in more detail in Note 4.5. Defined benefit pension plans and employee benefits.

The amount of contingent liabilities on behalf of the associates are presented in Note 7.1. Commitments and contingent liabilities.

No loans had been granted to the key persons of the management at year-end of 2019 and 2018, nor were there contingency items or commitments on behalf of key management personnel. Persons close to key management personnel with the related parties do not have any significant business relationship with the Group.

## 6.2 THE GROUP'S SUBSIDIARIES AND INVESTMENT IN ASSOCIATES

#### **SUBSIDIARIES**

	City	Country	Kemira Group's holding,%	Kemira Oyj's holding,%	Non- controlling interest's holding, %
Kemira Oyj (parent company)	Helsinki	Finland			
Aliada Quimica de Portugal Lda.	Estarreja	Portugal	50.1	0.0	49.9
AS Kemivesi	Lehmja Küla	Estonia	100.0	100.0	0.0
JSC "Kemira HIM"	St. Petersburg	Russia	100.0	0.0	0.0
Corporación Kemira Chemicals de Venezuela, C.A.	Caracas	Venezuela	100.0	0.0	0.0
Industry Park i Helsingborg Förvaltning AB	Helsingborg	Sweden	100.0	0.0	0.0
Kemifloc a.s.	Přerov	Czech Republic	51.0	0.0	49.0
Kemifloc Slovakia s.r.o.	Prešov	Slovakia	51.0	0.0	49.0
Kemipol Sp. z.o.o.	Police	Poland	51.0	0.0	49.0
Kemira (Asia) Co., Ltd.	Shanghai	China	100.0	0.0	0.0
Kemira Argentina S.A.	<b>Buenos Aires</b>	Argentina	100.0	15.8	0.0
Kemira Australia Pty Ltd	Hallam	Australia	100.0	0.0	0.0
Kemira Cell Sp. z.o.o.	Ostroleka	Poland	55.0	55.0	45.0
Kemira Chemicals (Nanjing) Co., Ltd.	Nanjing	China	100.0	100.0	0.0
Kemira Chemicals (Shanghai) Co., Ltd.	Shanghai	China	100.0	100.0	0.0
Kemira Chemicals (UK) Ltd.	Bradford	United Kingdom	100.0	100.0	0.0
Kemira Chemicals (Yanzhou) Co., Ltd.	Yanzhou City	China	100.0	100.0	0.0
Kemira Chemicals AS	Gamle Fredrikstad	Norway	100.0	0.0	0.0
Kemira Chemicals Brasil Ltda.	São Paulo	Brazil	100.0	99.9	0.0
Kemira Chemicals Canada Inc.	St. Catharines	Canada	100.0	100.0	0.0

	City	Country	Kemira Group's holding, %	Kemira Oyj's holding,%	Non- controlling interest's holding, %
Kemira Chemicals Germany GmbH	Frankfurt am Main	Germany	100.0	0.0	0.0
Kemira Chemicals Korea Corporation	Gunsan-City	South Korea	100.0	100.0	0.0
Kemira Chemicals NV	Aartselaar	Belgium	100.0	0.0	0.0
Kemira Chemicals Oy	Helsinki	Finland	100.0	0.0	0.0
Kemira Chemicals, Inc.	Atlanta, GA	United States	100.0	0.0	0.0
Kemira Chemie Ges.mbH	Krems	Austria	100.0	100.0	0.0
Kemira Chile Comercial Limitada	Santiago	Chile	100.0	99.0	0.0
Kemira Chimie S.A.S.U.	Strasbourg	France	100.0	0.0	0.0
Kemira Europe Oy	Helsinki	Finland	100.0	100.0	0.0
Kemira Gdańsk Sp. z o.o.	Gdańsk	Poland	100.0	0.0	0.0
Kemira Germany GmbH	Frankfurt am Main	Germany	100.0	100.0	0.0
Kemira GrowHow A/S	Copenhagen	Denmark	100.0	100.0	0.0
Kemira Hong Kong Company Limited	Hong Kong	China	100.0	100.0	0.0
Kemira Ibérica S.A.	Barcelona	Spain	100.0	0.0	0.0
Kemira International Finance B.V.	Rotterdam	Nether- lands	100.0	100.0	0.0
Kemira Italy S.p.A.	San Giorgio di Nogaro	Italy	100.0	0.0	0.0
Kemira Japan Co., Ltd.	Tokyo	Japan	100.0	0.0	0.0
Kemira Kemi AB	Helsingborg	Sweden	100.0	0.0	0.0
Kemira Kopparverket KB	Helsingborg	Sweden	100.0	0.0	0.0
Kemira KTM d.o.o.	Ljubljana	Slovenia	100.0	100.0	0.0
Kemira Research Center Shanghai Co., Ltd.	Shanghai	China	100.0	100.0	0.0
Kemira Rotterdam B.V.	Rotterdam	Nether- lands	100.0	0.0	0.0
Kemira South Africa (Pty) Ltd.	Weltevreden- park	South Africa	100.0	0.0	0.0

	City	Country	Kemira Group's holding,%	Kemira Oyj's holding,%	Non- controlling interest's holding,%
Kemira Świecie Sp. z.o.o.	Swiecie	Poland	100.0	100.0	0.0
Kemira Taiwan Corporation	Taipei	Taiwan	100.0	0.0	0.0
Kemira TC Wanfeng Chemicals (Yanzhou) Co., Ltd.	Yanzhou City	China	80.0	0.0	20.0
Kemira (Thailand) Co., Ltd.	Bangkok	Thailand	100.0	0.0	0.0
Kemira Uruguay S.A.	Fray Bentos	Uruguay	100.0	0.0	0.0
Kemira (Vietnam) Company Limited	Long Thanh	Vietnam	100.0	0.0	0.0
Kemira Water Danmark A/S	Copenhagen	Denmark	100.0	100.0	0.0
Kemira Water Solutions Brasil - Produtos para Tratamento de Água Ltda.	São Paulo	Brazil	100.0	100.0	0.0
Kemira Water Solutions Canada Inc.	Varennes	Canada	100.0	0.0	0.0
Kemira Water Solutions, Inc.	Atlanta, GA	United States	100.0	0.0	0.0
Kemwater Brasil Ltda.	Camaçari	Brazil	100.0	0.0	0.0
Kemwater ProChemie s.r.o.	Bradlec	Czech Republic	95.1	0.0	4.9
PT Kemira Indonesia	Surabaya	Indonesia	100.0	74.8	0.0
PT Kemira Chemicals Indonesia	Pasuruan	Indonesia	99.8	99.8	0.2
Scandinavian Tanking System A/S	Copenhagen	Denmark	100.0	0.0	0.0

## **ASSOCIATES**

	City	Country	Kemira Group's holding,%	Kemira Oyj's holding, %
Honkalahden Teollisuuslaituri Oy	Lappeenranta	Finland	50.0	0.0
Kemira Yongsan Chemicals Co., Ltd	Seoul	South Korea	35.0	0.0

#### **INVESTMENTS IN ASSOCIATES**

EUR million	2019	2018
Net book value on Jan 1	0.7	0.7
Additions	2.7	0.0
Decreases	-0.7	0.0
Net book value on Dec 31	2.8	0.7

Kemira established on January 11, 2019 a joint venture with 35% ownership of the company called Kemira Yongsan Chemicals Co., Ltd in South Korea. This associated company supports Kemira's future growth, especially in Asia-Pacific region, by providing additional polymer capacity, securing our capacity utilization and supporting Kemira's customers better with global delivery capability.

Kemira sold on August 8, 2019 a subsidiary of Kemira Operon Oy, a provider of water treatment plant operation services, and its associated company Haapaveden Ympäristöpalvelut Oy to the company of Operon Group. Kemira's holding is 10% in the company of Operon Group Oy.

A summary of the associates financial information is presented in the following table. The presented figures equal the figures in the financial statements of the each associate, not the portion of Kemira Group.

EUR million	2019	2018
Assets	7.8	9.8
Liabilities	7.6	9.7
Revenue	0.0	2.8
Profit (+) / loss (-) for the period	0.0	0.0

Related party transactions carried out with associates are disclosed in Note 6.1. Related parties.

#### **NON-CONTROLLING INTERESTS**

EUR million	2019	2018
Net book value on Jan 1	12.9	13.8
Dividends	-6.0	-6.5
Share of the profit for the period	6.3	6.1
Exchange rate differences	0.2	-0.4
Net book value on Dec 31	13.3	12.9

## Changes in the group structure

## Divestment of group companies

- Kemira Operon Oy was sold on August 8, 2019.

## 7. OFF-BALANCE SHEET ITEMS

## 7.1 COMMITMENTS AND CONTINGENT LIABILITIES

#### COMMITMENTS

EUR million	2019	2018
Assets pledged		
On behalf of own commitments	6.0	5.5
Guarantees		
On behalf of own commitments	48.8	54.7
On behalf of others	1.7	2.8
Operating lease commitments under IAS 17 standard - the Group as a lessee <sup>1)</sup>		
Minimum lease payments under operating leases are as follows:		
No later than 1 year		34.7
Later than 1 year and no later than 5 years		82.5
Later than 5 years		87.9
Total		205.2
Other obligations		
On behalf of own commitments	0.9	0.9
On behalf of others	6.1	6.1

<sup>1)</sup> On 1 January 2019, operating lease commitments are treated in accordance with IFRS 16 Leases standard.

# The most significant off-balance sheet investments commitments

On December 31, 2019, major amounts of contractual commitments for the acquisition of property, plant and equipment were EUR 52.6 million (16.4) for plant investments.

## Litigation

On May 19, 2014 Kemira announced that it had signed an agreement with Cartel Damage Claims Hydrogen Peroxide SA and CDC Holding SA (together "CDC") to settle the lawsuit in Helsinki, Finland relating to alleged old violations of competition law applicable to the hydrogen peroxide business. Based on the settlement CDC withdrew the damages claims and Kemira paid to CDC a compensation of EUR 18.5 million and compensated CDC for its legal costs. The settlement also included significant limitations of liabilities for Kemira regarding the then pending legal actions filed by CDC entities in Dortmund, Germany (mentioned and settled as below) and in Amsterdam, the Netherlands (mentioned and pending as below).

On October 16, 2017 Kemira entered into a settlement with Cartel Damage Claims Hydrogen Peroxide SA settling -for its part-fully and finally the Dortmund lawsuit filed by Cartel Damage Claims Hydrogen Peroxide SA in 2009 against six hydrogen peroxide manufacturers, including Kemira, for alleged old violations of competition law in the hydrogen peroxide business. Based on the settlement Cartel Damage Claims Hydrogen Peroxide SA withdrew the damages claims against Kemira and Kemira paid to Cartel Damage Claims Hydrogen Peroxide SA as compensation and costs an amount of EUR 12.7 million.

On June 9, 2011 Kemira Oyj's subsidiary Kemira Chemicals Oy (former Finnish Chemicals Oy) has received documents where it was stated that CDC Project 13 SA has filed an action against four companies in municipal court of Amsterdam, including Kemira, asking damages for violations of competition law applicable to the old sodium chlorate business. The European Commission set on June 2008 a fine of EUR 10.15 million on Finnish Chemicals Oy for antitrust activity in the company's sodium chlorate business during 1994-2000. Kemira Oyj acquired Finnish Chemicals in 2005. The municipal court of Amsterdam decided on June 4, 2014 to have jurisdiction over the case. The said decision on jurisdiction was appealed by Kemira to the court of appeal of Amsterdam. According to the decision by the court of

appeal on July 21, 2015, the municipal court of Amsterdam has jurisdiction over the case. The proceedings now continue at the municipal court of Amsterdam where Kemira is the only defendant after the other defendants have settled the claim with CDC Project 13 SA. CDC Project 13 SA claims from Kemira in its brief filed to the municipal court of Amsterdam EUR 61.1 million as damages and interests calculated until December 2, 2015 from which amount CDC Project 13 SA asks the court to deduct the share of the earlier other defendants for other sales than made by them directly, and statutory interest on so defined amount starting from December 2, 2015. Kemira defends against the claim of CDC Project 13 SA. On May 10, 2017, the municipal court of Amsterdam rendered an interim decision on certain legal aspects relating to the claims of CDC Project 13 SA. The interim decision was favorable to Kemira on matters as to applicable statute of limitations, though not supporting Kemira's view that assignments made to CDC (allegedly giving CDC rights to present damage claims against the defendants) were invalid. CDC Project 13 SA has appealed against said interim decision and likewise Kemira has decided to file a cross-appeal accordingly.

As mentioned above the settlement between Kemira and CDC relating to the Helsinki litigation also includes significant limitations of liabilities for Kemira regarding the remaining pending legal action filed by CDC Project 13 SA in Amsterdam, the Netherlands. Regardless of such limitations of liabilities, Kemira is not in a position to make estimate regarding the duration or the outcome of the said process. No assurance can be given as to the outcome of the process, and unfavorable judgments against Kemira could have an adverse effect on Kemira's business, financial condition or results of operations. Nevertheless, Kemira has estimated that the continuing process will likely cause a financial impact and hence has made a provision of EUR 11.5 million in 2019.

Due to its extensive international operations the Group, in addition to the above referred claims, is involved in a number of other legal proceedings incidental to these operations and it does not expect the outcome of these other currently pending legal proceedings to have materially adverse effect upon its consolidated results or financial position.

# ☐ The Group's accounting policies

## Contingent liabilities

A contingent liability is a possible obligation that arises from past events and whose existence will be confirmed by the occurrence of uncertain future events not wholly within the control of the Group, or concerns a present obligation which will most probably not require an outflow of resources embodying economic benefits to settle the obligation; or when the amount of the obligation cannot be measured with sufficient reliability. Contingent liability is disclosed in the notes.

## 7.2 EVENTS AFTER THE BALANCE SHEET DATE

The Group has no other significant events after the balance sheet date.



# Kemira Oyj's income statement

Thousand EUR	Note	01.0131.12.2019	01.0131.12.2018
Revenue	2	1,542,589	1,489,738
Change in inventory of finished goods and in work in progress +/-	4	-77	21,982
Other operating income	3	2,392	7,775
Materials and services	4	-866,634	-926,451
Personnel expenses	5	-38,033	-45,418
Depreciation, amortization and impairments	6	-26,828	-29,718
Other operating expenses	4	-509,077	-498,493
Operating profit		104,332	19,415
Financial income and expenses	7	87,259	119,636
Profit before appropriations and taxes		191,590	139,051
Appropriations	8	-96,098	-8,331
Income taxes	9	-1,971	1,738
Profit for the financial year		93,521	132,458



# Kemira Oyj's balance sheet

Thousand EUR	Note	31.12.2019	31.12.2018
ASSETS			
NON-CURRENT ASSETS			
Intangible assets	10	50,796	60,683
Tangible assets	11	34,317	35,331
Investments	12		
Holdings in Group undertakings		1,468,799	2,092,983
Receivables from Group companies		414,761	445,734
Other shares and holdings		100,712	100,442
Total non-current assets		2,069,385	2,735,173
CURRENT ASSETS			
Inventories	13	110,829	124,213
Non-current receivables	14		
Deferred tax assets		10,437	9,414
Loan receivables		100	0
Current receivables	14	316,358	457,504
Cash and cash equivalents		89,342	97,143
Total current assets		527,067	688,274
Total assets		2,596,451	3,423,447

Thousand EUR	Note	31.12.2019	31.12.2018
EQUITY AND LIABILITIES			
CAPITAL AND RESERVES	15		
Share capital		221,762	221,762
Share premium account		257,878	257,878
Fair value reserve		5,749	19,730
Unrestricted equity reserve		199,964	199,964
Retained earnings		555,463	502,911
Profit for the financial year		93,521	132,458
Total equity		1,334,336	1,334,703
APPROPRIATIONS	16	5,252	5,154
PROVISIONS	17	24,922	20,119
LIABILITIES			
Non-current liabilities	18		
Deferred tax liability		1,437	4,914
Other non-current liabilities		639,804	666,884
Current liabilities	19	590,700	1,391,674
Total liabilities		1,231,941	2,063,471
Total equity and liabilities		2,596,451	3,423,447



# Kemira Oyj's cash flow statement

Thousand EUR	2019	2018
CASH FLOWS FROM OPERATING ACTIVITIES		
Net profit for the period	93,521	132,458
Adjustments for		
Depreciations according to plan	26,828	29,718
Unrealized exchange differences (net)	-6,015	8,766
Financial income and expenses (+/-)	-87,259	-119,636
Income taxes	1,971	-1,738
Other adjustments (+/-)	102,146	75,600
Operating profit before change in working capital	131,192	125,169
Change in working capital		
Increase (-) / decrease (+) in non-interest-bearing current receivables	50,885	-71,360
Increase (-) / decrease (+) in inventories	13,384	-35,257
Increase (+) / decrease (-) in short-term interest-free debts	-224,768	6,058
Change in working capital	-160,499	-100,559
Cash generated from operations before financial items and taxes	-29,307	24,610
Interest and other finance costs paid	-24,692	-73,726
Interest and other finance income received	24,850	2,585
Realized exchange differences (net)	7,949	-1,279
Dividends received	99,737	167,317
Income taxes paid	-1,309	1,152
Net cash from operating activities	77,230	120,659

Thousand EUR	2019	2018
CASH FLOWS FROM INVESTING ACTIVITIES		
Acquisitions of subsidiary shares	-154	-213
Acquisitions of other shares	-270	0
Purchases of intangible assets	-7,838	-15,159
Purchases of tangible assets	-8,089	-11,043
Proceeds from sale of subsidiary shares	1,852	0
Proceeds from sale of tangible and intangible assets	174	108
Increase (-) / decrease (+) in loan receivables	99,999	-155,974
Net cash used in investing activities	85,674	-182,282
Cash flows before financing	162,904	-61,622
CASH FLOWS FROM FINANCING ACTIVITIES		
Proceeds from non-current liabilities (+)	40,121	90,000
Repayment of non-current liabilities (-)	-10,712	-111,000
Short-term financing, net increase (+) / decrease (-)	-110,027	144,305
Dividends paid	-80,905	-80,827
Group contribution paid	-9,000	0
Net cash used in financing activities	-170,523	42,478
Net increase (+) / decrease (-) in cash and cash equivalents	-7,619	-19,144
Cash and cash equivalents on Dec 31	89,342	97,143
Exchange gains (+) / losses (-) on cash and cash equivalents	-182	-800
Cash and cash equivalents on Jan 1	97,143	117,088
Net increase (+) / decrease (-) in cash and cash equivalents	-7,619	-19,144

# 1. THE PARENT COMPANY'S ACCOUNTING POLICIES FOR THE FINANCIAL STATEMENTS

## **BASIS OF PREPARATION**

The parent company's financial statements have been prepared in compliance with the relevant acts and regulations in force in Finland (FAS). Kemira Group's financial statements have been prepared in accordance with the International Financial Reporting Standards (IFRS), and the parent company applies the Group's accounting policies whenever it has been possible according to FAS.

## ADJUSTMENTS FOR PRIOR PERIOD DISCLOSURES

Presentation regarding freights and delivery expenses has been changed during the financial year to reflect to the presentation of the Group. Earlier they were presented in materials and services. Now they are presented in other operating expenses. The change in presentation has been applied also to comparison year.

Restructuring provision of EUR 1.0 million has been reclassified to environmental provisions and transferred to non-current provisions. The change in classification has been applied also to comparison year.

## **VALUATION AND ALLOCATION PRINCIPLES**

#### **VALUATION OF NON-CURRENT ASSETS**

Planned depreciation and any impairment losses have been deducted from the acquisition cost of the intangible and tangible assets entered in the balance sheet. The acquisition cost includes the variable costs of acquisition and manufacturing. Government grants received are recognized as a deduction from the carrying amount of property, plant and equipment. Planned depreciation is calculated on a straight-line basis over the estimated intangible and tangible asset's useful life. Depreciation starts from the month of commencement of use.

Depreciation periods:

Other intangible assets 5–10 years Buildings and constructions 20–40 years Machinery and equipment 3–15 years

Shares of non-current assets are valued at their acquisition cost or less impairment.

## **VALUATION OF INVENTORY**

Inventories are stated at cost or at the lower of replacement cost or probable selling price. In addition to variable costs, the cost of inventories includes a portion of the fixed costs of acquisition and manufacturing. Costs are determined using a weighted average cost formula. The net realizable value is the sales price received in the ordinary course of business less the estimated costs for completing the asset and the sales costs.

## **VALUATION OF FINANCIAL INSTRUMENTS**

Management of financial risk of Kemira Group is concentrated in Kemira Oyj, which enters into currency, interest rate and electricity derivatives with third parties. Changes in the fair value of currency derivatives that are applicable for hedge accounting in the Group, but not in the parent company (as underlying hedged items are with group companies) are booked to profit and loss. Also, changes in the fair value of other currency derivatives not qualifying for hedge accounting in the Group, hedging commercial purchases or sales or financial items in foreign currencies are booked to profit and loss. Changes in the fair value of interest rate derivatives are booked to financial items in both hedge accounting and non-hedge accounting.

The fair value of Electricity Derivatives hedging the parent company's electricity purchases and qualifying for hedge accounting is posted to the hedging reserve under equity as well as

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the change in the fair value of currency derivatives that qualify for hedge accounting in the parent company. These currency derivatives are hedging estimated currency flows in Kemira Oyj for the next 12-month period. When the hedging instrument is maturing or the hedging relationship is discontinued due to inefficiency, the hedging reserve is is adjusted by the value of the derivative by booking the value to Income Statement.

Valuation of Fair value derivative instruments is done according to the Finnish Accounting Act Chapter 5 Section 2a.

The valuation methods of derivative instruments are described in Notes 5.4 and 5.6 in the Consolidated Financial Statements.

Defining the fair value of Financial assets and liabilities is described in Group Note 5.4. Financial Risk management principles is illustrated in Group note 5.5. Hedge accounting principles and valuation of derivative instrument are described in Group note 5.6.

Reductions in the capital of other non-current loans as well as loan transaction costs have been capitalized in a manner allowed by the Finnish Accounting Act in the parent company's financial statement. The non-expensed portion of these expenses, EUR 2.8 million (1.8), is included in the balance sheet.

## **OBLIGATORY PROVISIONS**

Obligatory provisions are recognized from pensions, personnel-related costs and environmental obligations.

## REVENUE

Kemira Oyj's revenue consists mainly of revenues from the sale of goods and services. Revenue also includes intercompany service charges on a gross basis.

## PENSION ARRANGEMENTS

The company's statutory pensions are handled by pension insurance companies and supplemental pensions mainly by Kemira's own pension fund. Pension costs consist of payments to pension insurance companies and possible contributions to the pension fund and are recognized in the income statement.

## SHARE-BASED INCENTIVE PLANS

The treatment of share-based plans is described in the Group's accounting policies. In the parent company, the cash proportion of share-based incentive plans is recognized as an expense in the performance year, and the share proportion is recognized in the year the shares are given using the average share price.

#### FOREIGN CURRENCY TRANSLATION

In a day-to-day accounting, foreign currency transactions are translated into their functional currency at the exchange rates quoted on the transaction date. In the Financial Statements, foreign currency denominated receivables and liabilities are measured at the exchange rates quoted on the balance sheet date. Business related exchange rate differences and business related foreign currency exchange rate hedges are treated as sales and purchase adjustments. Any foreign exchange gains and losses related to financial items and respective hedging instruments are booked into financial income and expenses.

#### **DEFERRED TAXES**

Deferred tax liabilities or receivables are recognized for temporary differences between tax and financial statements using the tax rate for the year following as determined on the balance sheet date. The balance sheet includes the deferred tax liability in its entirety and the deferred tax asset at the estimated probable amount by management assesses. The efficient part of changes in the value of the electricity and currency derivatives qualifying for hedge accounting is booked as a fair value reserve less deferred taxes.

## **IFASE**

CORPORATE SUSTAINABILITY

Lease payments are treated as rental expenses.

#### **CASH FLOW STATEMENT**

The parent company's cash flow statement has been prepared in accordance with the general guidelines on cash flow by the Finnish Board of Accounting.

# 2. REVENUE

Thousand EUR	2019	2018
Revenue by segments		
Pulp & Paper	696,057	797,755
Industry & Water	422,452	429,107
Intercompany revenue	424,079	262,876
Total	1,542,589	1,489,738
Distribution of revenue by geographical area as a percentage of total revenue		
Finland, domicile of the parent company	29	30
Other Europe, Middle East and Africa	55	57
Americas	11	8
Asia Pacific	5	5
Total	100	100

# 3. OTHER OPERATING INCOME

Thousand EUR	2019	2018
Gains on the sale of property, plant and equipment	174	27
Rent income	369	818
Insurance compensation received	190	4,613
Other income from operations	1,658	2,316
Total	2,392	7,775

# 4. OPERATING EXPENSES

Thousand EUR	2019	2018
Change in stocks of finished goods and in work in progress	77	-21,982
Materials and services		
Materials and supplies		
Purchases during the financial year	853,795	914,995
Change in inventories (increase - / decrease +)	-1,015	-2,535
External services	13,854	13,991
Total	866,634	926,451
Personnel expenses 1)	38,033	45,418
Breakdown of personnel expenses in Note 5.		
Other operating expenses		
Rents 1)	10,597	8,408
Intercompany tolling manufacturing charges	204,794	196,679
Other intercompany charges	130,120	131,006
Freights and delivery expenses	106,823	109,531
External services	17,726	18,733
Other operating expenses <sup>1)</sup>	39,017	34,135
Total	509,077	498,493
Total operating expenses	1,413,821	1,448,379

1) In 2019, the operating expenses included a net increase in the obligatory provisions of EUR +4,803 thousand (personnel expenses EUR -119 thousand, rents EUR 0 thousand and other expenses EUR +4,921 thousand). In 2018, the operating expenses included a net decrease in the obligatory provisions of EUR -2,062 thousand (personnel expenses EUR -140 thousand, rents EUR -3,515 thousand and other expenses EUR +1,593 thousand).

#### **AUDIT FEES AND SERVICES**

Thousand EUR	2018	
Audit fees	462	445
Tax services	149	227
Other services	331	562
Total	942	1,234

In the Annual General Meeting on March 21, 2019 Ernst & Young Oy was elected as the auditor for 2019. In 2018, Deloitte Oy was acting as the auditor.

# 5. PERSONNEL EXPENSES AND NUMBER OF PERSONNEL

Thousand EUR	2019	2018
Emoluments of the Board of Directors, the CEO and his Deputy 1)	1,826	1,714
Other wages and salaries	42,960	36,106
Pension expenses 2)	-8,393	6,640
Other personnel expenses	1,639	958
Total	38,033	45,418

In 2017, salaries and bonuses totaled EUR 37,207 thousand.

Other transactions between related parties are presented in Note 6.1 in the Notes to the Consolidated Financial Statements.

Number of personnel on Dec 31	2019	2018
Pulp & Paper segment	108	108
Industry & Water segment	38	36
Other, of which	358	365
R&D and Technology	166	167
Total	504	509
Average number of personnel	507	507

# 6. DEPRECIATION, AMORTIZATION AND IMPAIRMENTS

Thousand EUR	2019	2018
Depreciation according to plan and impairments		
Intangible rights	11,484	14,222
Other intangible assets	6,280	6,466
Impairment of land and water	32	0
Buildings and constructions	780	496
Machinery and equipment	8,242	8,525
Other tangible assets	10	10
Total	26,828	29,718

<sup>1)</sup> In 2019, the emolument of the Kemira Oyj's CEO was EUR 1,110 thousand (1,022) including bonuses and share-based payments of EUR 402 thousand (455). The emolument of the Kemira Oyj's Deputy CEO was EUR 314 thousand (330) including bonuses and share-based payments of EUR 130 thousand (148).

<sup>2)</sup> In 2019, the pension expenses includes a return of EUR 14.8 million from Pension Fund Neliapila.

# 7. FINANCE INCOME AND EXPENSES

**kemira** 

Thousand EUR	2019	2018
Dividend income		
From Group companies	99,629	167,202
From others	108	116
Total	99,737	167,317
Other interest and finance income		
Interest income from Group companies	19,716	16,597
Interest income from others	1,272	1,666
Other finance income from Group companies	551	553
Other finance income from others	1,513	0
Exchange gains from Group companies (net)	7,158	9,889
Total	30,209	28,705
Total finance income	129,946	196,022
Impairment losses on non-current assets		
Group companies	-15,000	-28,217
Others	0	-21,484
Total	-15,000	-49,702
Interest expenses and other finance expenses		
Interest expenses to Group companies	-2,124	-1,309
Interest expenses to others	-18,232	-19,580
Other finance expenses to others	-2,108	-3,392
Exchange losses from others (net)	-5,223	-2,403
Total	-27,688	-26,685
Total finance expenses	-42,688	-76,386
Total finance income and expenses	87,259	119,636

Thousand EUR	2018	
Exchange gains and losses		
Realized	7,949	-1,279
Unrealized	-6,015	8,765
Total	1,934	7,486

# 8. APPROPRIATIONS

Thousand EUR	2019	2018
Change in accumulated depreciation difference (increase - / decrease +)		
Intangible rights	-1,417	-653
Other intangible assets	-147	629
Buildings and constructions	312	87
Machinery and equipment	1,149	601
Other tangible assets	5	5
Total	-98	669
Group contribution		
Group contributions given	-96,000	-9,000
Total	-96,000	-9,000
Total appropriations	-96,098	-8,331

# 9. INCOME TAXES

Thousand EUR	2019	2018
Income taxes on ordinary activities	-1,503	-367
Income taxes for prior years	-104	-12
Change in deferred taxes	1,023	3,514
Other taxes and parafiscal charges	-1,386	-1,397
Total	-1,971	1,738

# **10. INTANGIBLE ASSETS**

**kemira** 

2019, Thousand EUR	Intangible rights	Goodwill	Advance payments and construction in progress	Other intangible assets	Total
Acquisition cost on Jan 1	97,348	6,181	3,083	195,106	301,719
Additions	5,534	0	2,303	0	7,838
Decreases	-2,121	0	0	0	-2,121
Transfers	159,843	1,082	-2,752	-155,228	2,944
Acquisition cost on Dec 31	260,605	7,263	2,634	39,878	310,380
Accumulated amortization on Jan 1	-58,343	-6,181	0	-176,512	-241,037
Accumulated amortization relating to decreases	1,822	0	0	0	1,822
Accumulated amortization relating to transfers	-150,849	-1,082	0	149,026	-2,905
Amortization during the financial year	-11,186	0	0	-6,280	-17,465
Accumulated amortization on Dec 31	-218,556	-7,263	0	-33,766	-259,584
Net book value on Dec 31	42,049	0	2,634	6,112	50,796

2018, Thousand EUR	Intangible rights	Goodwill	Advance payments and construction in progress	Other intangible assets	Total
Acquisition cost on Jan 1	93,348	6,181	9,952	186,973	296,455
Additions	6,147	0	1,717	6,806	14,670
Decreases	-6,120	0	0	-3,775	-9,895
Transfers	3,973	0	-8,586	5,103	489
Acquisition cost on Dec 31	97,348	6,181	3,083	195,106	301,719
Accumulated amortization on Jan 1	-50,241	-6,181	0	-173,821	-230,244
Accumulated amortization relating to decreases	6,120	0	0	3,775	9,895
Amortization during the financial year	-14,222	0	0	-6,466	-20,688
Accumulated amortization on Dec 31	-58,343	-6,181	0	-176,512	-241,037
Net book value on Dec 31	39,005	0	3,083	18,595	60,683

# 11. TANGIBLE ASSETS

	Land and water	Buildings and	Machinery and	Other tangible	Advance payments and construction in	
2019, Thousand EUR	areas	constructions	equipment	assets	progress	Total
Acquisition cost on Jan 1	1,083	18,860	109,495	553	6,225	136,216
Additions	0	16	2,369	0	5,705	8,089
Decreases	-32	-5,859	-32,099	0	0	-37,991
Transfers	0	0	3,251	0	-3,290	-39
Acquisition cost on Dec 31	1,051	13,016	83,015	553	8,640	106,276
Accumulated depreciation on Jan 1	-110	-14,001	-86,268	-507	0	-100,885
Accumulated depreciation relating to decreases	0	5,508	31,801	0	0	37,309
Depreciation during the financial year	0	-428	-7,944	-10	0	-8,383
Accumulated depreciation on Dec 31	-110	-8,921	-62,411	-517	0	-71,959
Net book value at 31 Dec	942	4,095	20,604	36	8,640	34,317

2018, Thousand EUR	Land and water areas	Buildings and constructions	Machinery and equipment	Other tangible assets	Advance payments and construction in progress	Total
Acquisition cost on Jan 1	1,083	18,567	102,000	553	9,093	131,297
Additions	0	166	6,448	0	5,010	11,623
Decreases	0	-321	-5,894	0	0	-6,215
Transfers	0	448	6,940	0	-7,878	-489
Acquisition cost on Dec 31	1,083	18,860	109,495	553	6,225	136,216
Accumulated depreciation on Jan 1	-110	-13,826	-83,546	-497	0	-97,979
Accumulated depreciation relating to decreases	0	321	5,803	0	0	6,124
Depreciation during the financial year	0	-496	-8,525	-10	0	-9,030
Accumulated depreciation on Dec 31	-110	-14,001	-86,268	-507	0	-100,885
Net book value on Dec 31	974	4,859	23,227	46	6,225	35,331

# 12. INVESTMENTS

2019, Thousand EUR	Holdings in Group companies	Receivables from Group companies	Other shares and holdings	Total
Net book value on Jan 1	2,092,983	445,734	100,442	2,639,159
Additions	154	0	270	424
Decreases	-339	-30,973	0	-31,312
Impairments	-624,000	0	0	-624,000
Net book value on Dec 31	1,468,799	414,761	100,712	1,984,272

2018, Thousand EUR	Holdings in Group companies	Receivables from Group companies	Other shares and holdings	Total
Net book value on Jan 1	2,123,929	289,459	121,926	2,535,315
Additions	213	156,275	0	156,488
Decreases	-2,942	0	0	-2,942
Impairments	-28,217	0	-21,484	-49,702
Net book value on Dec 31	2,092,983	445,734	100,442	2,639,159

# 13. INVENTORIES

Thousand EUR	2019	2018
Raw materials and consumables	31,966	30,951
Finished goods	78,709	78,786
Advance payments	153	14,476
Total	110,829	124,213

# 14. RECEIVABLES

Thousand EUR	2019	2018
Non-current receivables		
Interest-bearing non-current receivables		
Loan receivables		
Loan receivables from others	100	0
Total	100	0
Deferred tax assets		
Appropriations	1,168	1,094
Reservations	3,861	2,883
Revaluations	4,285	4,285
Other deferred tax receivables	1,123	1,152
Total	10,437	9,414
Total non-current receivables	10,537	9,414
Thousand EUR	2019	2018
Current receivables		
Receivables from Group companies		
Trade receivables	38,415	36,097
Loan receivables	140,925	209,133
Advances paid	18,836	18,836
Other current receivables	28	0
Prepayments and accrued income	5,351	5,543
Total	203,555	269,610

Thousand EUR	2019	2018
Accrued income from others		
Trade receivables	92,493	136,680
Advances paid	1	10
Other current receivables	4,710	13,009
Prepayments and accrued income	15,600	38,195
Total	112,803	187,894
Total current receivables	316,358	457,504
Total receivables	326,895	466,918
Thousand EUR	2019	2018
Accrued income from others		
Interest	-116	1,371
Taxes	1,588	2,138
Exchange rate differences	9,154	27,298
Other	4,974	7,389
Total	15,600	38,195

# 15. CAPITAL AND RESERVES

Thousand EUR	2019	2018
Restricted equity		
Share capital on Jan 1	221,762	221,762
Share capital on Dec 31	221,762	221,762
Share premium account on Jan 1	257,878	257,878
Share premium account on Dec 31	257,878	257,878
Fair value reserve on Jan 1	19,730	4,394
Cash flow hedges	-13,982	15,337
Fair value reserve on Dec 31	5,749	19,730
Total restricted equity on Dec 31	485,388	499,370
Unrestricted equity		
Unrestricted equity reserve on Jan 1	199,964	199,964
Unrestricted equity reserve on Dec 31	199,964	199,964
Retained earnings on Jan 1	635,369	582,637
Dividend distributions	-80,905	-80,827
Share-based incentive plan		
Shares given	1,083	1,123
Shares returned	-84	-23
Retained earnings on Dec 31	555,463	502,911
	00.504	100 (50
Profit for the financial period	93,521	132,458
Total unrestricted equity on Dec 31	848,948	835,333
Table and the description of Paragraphs	4.007.000	4.007.700
Total capital and reserves on Dec 31	1,334,336	1,334,703
Total distributable funds on Dec 31	040 040	025 222
Total distributable funds on Dec 3 f	848,948	835,333

#### **CHANGE IN TREASURY SHARES**

Thousand	EUR	Number of shares
Acquisition value/number on Jan 1, 2019	19,065	2,832
Change	-937	-139
Acquisition value/number on Dec 31, 2019	18,128	2,693

# 16. ACCUMULATED APPROPRIATIONS

Thousand EUR	2019	2018
Appropriations		
Accumulated depreciation difference	5,252	5,154
Deferred tax liabilities on accumulated appropriations	1,050	1,031

# 17. OBLIGATORY PROVISIONS

Thousand EUR	2019	2018
Non-current provisions		
Pension provisions	5,617	5,760
Environmental provisions	17,621	14,000
Total non-current provisions	23,238	19,760
Current provisions		
Pension provisions	383	359
Environmental provisions	1,300	0
Total current provisions	1,683	359
Total provisions	24,922	20,119
Change in obligatory provisions		
Obligatory provisions on Jan 1	20,119	22,181
Utilised during the year	-724	-3,747
Cancellation of unused reservations	-20	-13
Increase during the year	5,547	1,699
Obligatory provisions on Dec 31	24,922	20,119

Environmental risks and liabilities are disclosed in Note 4.6 in the Notes to the Consolidated Financial Statements.

# 18. NON-CURRENT LIABILITIES

Thousand EUR	2019	2018
Loans from financial institutions	280,217	295,012
Corporate bonds	348,875	350,449
Other liabilities	10,712	21,423
Total	639,804	666,884
Maturity later than five years		
Loans from financial institutions	130,648	90,000
Corporate bonds	0	350,000
Other non-current liabilities	0	21,435
Total	130,648	461,435
Deferred tax liabilities		
From foreign currency and electricity hedging	1,437	4,914
Total	1,437	4,914
Total non-current liabilities	641,241	671,798



# 19. CURRENT LIABILITIES

Thousand EUR	2019	2018
Liabilities to Group companies		
Trade payables	41,223	47,926
Other liabilities	216,123	1,041,916
Accrued expenses	106,198	11,927
Total	363,545	1,101,769
Liabilities to others		
Corporate Bonds	45,000	100,001
Loans from financial institutions	10,000	10,000
Prepayments received	895	1,588
Trade payables	74,587	78,074
Other liabilities	31,966	30,401
Accrued expenses	64,706	69,841
Total	227,155	289,905
Total current liabilities	590,700	1,391,674
Accrued expenses and deferred income		
Personnel expenses	18,287	11,444
Interest expenses and exchange rate differences	9,493	9,984
Cost accruals	29,074	39,505
Other	7,853	8,908
Total	64,706	69,841

# **20. DERIVATIVES**

	2019	2018
Nominal values, thousand EUR	Total	Total
Currency derivatives		
Forward contracts	468,439	358,063
of which cash flow hedges	93,379	14,127
Interest rate derivatives		
Interest rate swaps	130,000	245,000
of which cash flow hedges	_	145,000
of which fair value hedges	_	100,000
Other derivatives		
Electricity contracts, bought (MWh)	2,000,965	2,107,082
Electricity forward contracts	2,000,965	2,107,082
of which cash flow hedges	2,000,965	2,107,082

2018



KEMIRA OYJ FINANCIAL STATEMENTS (FAS) | PART OF THE AUDITED FINANCIAL STATEMENTS 2019

		2019		
Fair values, thousand EUR	Positive	Negative	Net	
Currency derivatives				
Forward contracts	3,458	3,589	-131	
of which cash flow hedges	1,001	363	638	
Interest rate derivatives				
Interest rate swaps	_	576	576	
of which cash flow hedges	_	_	_	
of which fair value hedges	_	_	_	
Other derivatives				
Electricity forward contracts, bought	6,375	_	6,375	
of which cash flow hedges	6,375	_	6,375	

Fair values, thousand EUR	Positive	Negative	Net
Currency derivatives			
Forward contracts	2,346	2,161	184
of which cash flow hedges	75	_	75
Interest rate derivatives			
Interest rate swaps	1,743	1,297	446
of which cash flow hedges	_	1,297	-1,297
of which fair value hedges	1,743	_	1,743
Other derivatives			
Electricity forward contracts, bought	24,528	_	24,528
of which cash flow hedges	24,528	_	24,528

# 21. COLLATERAL AND CONTINGENT LIABILITIES

Thousand EUR	2019	2018
Given guarantees		
On behalf of own commitments		
Business related delivery-, environmental and other guarantees	13,657	9,700
On behalf of companies belonging to the same Group		
Business and financing guarantees	445,898	408,717
On behalf of others		
Guarantees	1,450	2,528
Other obligations		
Loan commitments	6,127	6,127
Purchase commitment	333	667
Rent liabilities		
Maturity within one year	2,550	2,505
Maturity after one year	10,965	13,426
Total	13,516	15,931
Leasing liabilities		
Maturity within one year	1,099	1,228
Maturity after one year	1,098	1,096
Total	2,197	2,324
Pledges given		
On behalf of own commitments	120	0

**BUSINESS OVERVIEW** 



# 22. SHARES AND HOLDINGS OWNED BY KEMIRA OYJ

## SHARES IN GROUP COMPANIES

	Group holding, %	Kemira Oyj holding, %
AS Kemivesi	100.00	100.00
Kemira Argentina S.A.	100.00	15.80
Kemira Cell Sp. z.o.o.	55.00	55.00
Kemira Chemicals (Nanjing) Co.,Ltd.	100.00	100.00
Kemira Chemicals (Shanghai) Co.,Ltd.	100.00	100.00
Kemira Chemicals (UK) Ltd.	100.00	100.00
Kemira Chemicals (Yanzhou) Co.,Ltd.	100.00	100.00
Kemira Chemicals Brasil Ltda	100.00	99.87
Kemira Chemicals Canada Inc.	100.00	100.00
Kemira Chemicals Korea Corporation	100.00	100.00
Kemira Chemie Ges.mbH	100.00	100.00
Kemira Chile Comercial Limitada	100.00	99.00
Kemira Europe Oy	100.00	100.00
Kemira Germany GmbH	100.00	100.00
Kemira GrowHow A/S	100.00	100.00
Kemira Hong Kong Company Limited	100.00	100.00
Kemira International Finance B.V.	100.00	100.00
Kemira KTM d.o.o.	100.00	100.00
Kemira Świecie Sp. z o.o.	100.00	100.00
Kemira Water Danmark A/S	100.00	100.00
Kemira Water Solutions Brasil	100.00	100.00
PT Kemira Indonesia	100.00	74.80
PT Kemira Chemicals Indonesia	99.77	99.77

In 2019, Kemira Oyj sold the shares of Kemira Operon Oy. The Group's subsidiaries and investment in associates are presented in Note 6.2. in the Consolidated Financial Statements.

BOARD'S PROPOSAL FOR PROFIT DISTRIBUTION AND SIGNATURES | PART OF THE AUDITED FINANCIAL STATEMENTS 2019

# KEMIRA OYJ'S BOARD OF DIRECTORS' PROPOSAL TO THE ANNUAL GENERAL MEETING FOR THE DISTRIBUTION OF DISTRIBUTABLE FUNDS AND SIGNING OF THE FINANCIAL STATEMENTS AND BOARD OF DIRECTORS' REVIEW

On December 31, 2019, Kemira Oyj's distributable funds are EUR 848,948,241 of which the net profit for the period amounts to EUR 93,521,333.

The Board of Directors proposes to the Annual General Meeting to be held on March 25, 2020 that a dividend of EUR 0.56 per share will be distributed. No dividend will be paid on own shares held by the company as treasury shares on the dividend record date.

On the date of this proposal for the distribution of profits, a total of 152,648,086 shares are held outside the company, the total dividends paid would amount to EUR 85,482,928. The distributable funds of EUR 763,465,313 to be retained as equity.

There have been no material changes in the company's financial position since December 31, 2019. The liquidity of the company remains good, and the proposed dividend payment does not risk the solvency of the company.

Helsinki, February 10, 2020

Jari Paasikivi Kerttu Tuomas Chairman Vice Chairman

Wolfgang Büchele Shirley Cunningham

Kaisa Hietala Timo Lappalainen

Jari Rosendal CEO

## Auditor's report (Translation of the Finnish original)

To the Annual General Meeting of Kemira Oyj

#### REPORT ON THE AUDIT OF FINANCIAL STATEMENTS

#### OPINION

We have audited the financial statements of Kemira Oyj (business identity code 0109823-0) for the year ended 31 December 2019. The financial statements comprise the consolidated balance sheet, income statement, statement of comprehensive income, statement of changes in equity, statement of cash flows and notes, including a summary of significant accounting policies, as well as the parent company's balance sheet, income statement, statement of cash flows and notes.

In our opinion

- the consolidated financial statements give a true and fair view of the group's financial position as well as its financial performance and its cash flows in accordance with International Financial Reporting Standards (IFRS) as adopted by the EU.
- the financial statements give a true and fair view of the parent company's financial performance and financial position in accordance with the laws and regulations governing the preparation of financial statements in Finland and comply with statutory requirements.

Our opinion is consistent with the additional report submitted to the Audit Committee.

#### **BASIS FOR OPINION**

We conducted our audit in accordance with good auditing practice in Finland. Our responsibilities under good auditing practice are further described in the Auditor's Responsibilities for the Audit of Financial Statements section of our report.

We are independent of the parent company and of the group companies in accordance with the ethical requirements that are applicable in Finland and are relevant to our audit, and we have fulfilled our other ethical responsibilities in accordance with these requirements.

In our best knowledge and understanding, the non-audit services that we have provided to the parent company and group companies are in compliance with laws and regulations applicable in Finland regarding these services, and we have not provided any prohibited non-audit services referred to in Article 5 (1) of regulation (EU) 537/2014. The non-audit services that we have provided have been disclosed in note 2.2 to the consolidated financial statements.

We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our opinion.

#### **KEY AUDIT MATTERS**

Key audit matters are those matters that, in our professional judgment, were of most significance in our audit of the financial statements of the current period. These matters were addressed in the context of our audit of the financial statements as a whole, and in forming our opinion thereon, and we do not provide a separate opinion on these matters.

We have fulfilled the responsibilities described in the Auditor's responsibilities for the audit of the financial statements section of our report, including in relation to these matters. Accordingly, our audit included the performance of procedures designed to respond to our assessment of the risks of material misstatement of the financial statements. The results of our audit procedures, including the procedures performed to address the matters below, provide the basis for our audit opinion on the accompanying financial statements.

We have also addressed the risk of management override of internal controls. This includes consideration of whether there was evidence of management bias that represented a risk of material misstatement due to fraud.



#### Key audit matter

#### How our audit addressed the Key Audit Matter

#### Revenue recognition

The accounting principles and disclosures concerning revenues are disclosed in Note 2.1.

Revenue recognition is considered as a key audit matter because revenues are a key financial performance measure which could create an incentive for revenues to be recognized prematurely. Relevant areas from the revenue recognition perspective are accuracy of the recognized amounts and timing of revenue recognition.

Revenue recognition was determined to be a key audit matter and a significant risk of material misstatement referred to in EU Regulation No 537/2014, point (c) of Article 10 (2).

Our audit procedures to address the risk of material misstatement included:

- Assessment of Kemira's accounting policies over revenue recognition from IFRS standards' perspective.
- Effectiveness testing of revenue recognition related application controls in the enterprise resource planning system used by Kemira.
- Effectiveness testing of management's internal controls in sales process as well as analysis of identified control exceptions and their root cause.
- On a sample basis an analysis of current sales contracts and evaluation of appropriateness of recognized revenue and its timing.
- Analytical procedures over revenue transactions throughout the financial year to identify potential abnormal entries.

#### Key audit matter

#### Valuation of goodwill

The accounting principles and disclosures concerning goodwill are disclosed in Note 3.1.

Valuation of goodwill was a key audit matter because

- the assessment process is judgmental,
- it is based on assumptions relating to market or economic conditions extending to the future, and
- because of the significance of the goodwill to the financial statements.

As of balance sheet date 31 December 2019, the value of goodwill amounted to 516 million euro representing 18 % of the total assets and 42 % of the total equity.

The valuation of goodwill is based on management's estimate about the value-inuse calculations of the cash generating units. There are number of underlying assumptions used to determine the value-in-use, including the revenue growth, EBITDA and discount rate applied on net cash-flows.

Estimated value-in-use may vary significantly when the underlying assumptions are changed and the changes in above-mentioned individual assumptions may result in an impairment of goodwill.

How our audit addressed the Key Audit Matter

Our audit procedures regarding the valuation of goodwill included involving EY valuation specialists to assist us in evaluating methodologies, impairment calculations and underlying assumptions applied by the management in the impairment testing.

In evaluation of methodologies, we compared the principles applied by the management in the impairment tests to the requirements set in IAS 36 Impairment of assets standard and ensured the mathematical accuracy of the impairment calculations.

The key assumptions applied by the management in impairment tests were compared to

- approved budgets and long-term forecasts,
- information available in external sources, as well as
- our independently calculated industry averages such as weighted average cost of capital used in discounting the cashflows. In addition, we compared the sum of discounted cash flows in impairment tests to Kemira's market capitalization.

We also assessed the sufficiency of the disclosures as well as whether the disclosures about the sensitivity of the impairment assessment are appropriate.



#### Key audit matter

key audit matter because

#### t matter How our audit addressed the Key Audit Matter

### Fair value measurement of other shares The accounting principles and disclosures concerning other shares are disclosed in Note 3.5.

Fair value measurement of other shares was a

- the value of other shares is material to the financial statements, and because
- the fair value assessment process requires significant management judgment.

As of balance sheet date 31 December 2019, the value of PVO / TVO shares included in other shares amounted to 243 million euro representing 8 % of the total assets and 20 % of the total equity. PVO / TVO shares represent majority of the balance sheet value of other shares.

In determining the fair value of PVO / TVO shares, the management must make among other things an assessment regarding

- future electricity production cost for PVO and TVO.
- future electricity market prices applicable for Finland, and
- discount rate applied on discounting the cashflows.

Fair values of PVO and TVO shares may vary significantly when above-mentioned assumptions are changed.

Our audit procedures regarding the fair values of other shares included involving EY valuation specialists to assist us in evaluating appropriateness of methodologies, fair value calculations and underlying assumptions applied by the management.

The key assumptions made by the management were compared to

- estimates of future electricity production costs available on external sources,
- estimates of future electricity market prices in Finland available on external sources, and
- our independently calculated discount rate applicable for discounting of expected cashflows.

In addition, we assessed the overall reasonableness of management's judgments.

We also assessed the sufficiency and appropriateness of the disclosures regarding the other shares.

### RESPONSIBILITIES OF THE BOARD OF DIRECTORS AND THE MANAGING DIRECTOR FOR THE FINANCIAL STATEMENTS

The Board of Directors and the Managing Director are responsible for the preparation of consolidated financial statements that give a true and fair view in accordance with International Financial Reporting Standards (IFRS) as adopted by the EU, and of financial statements that give a true and fair view in accordance with the laws and regulations governing the preparation of financial statements in Finland and comply with statutory requirements. The Board of Directors and the Managing Director are also responsible for such internal control as they determine is necessary to enable the preparation of financial statements that are free from material misstatement, whether due to fraud or error.

In preparing the financial statements, the Board of Directors and the Managing Director are responsible for assessing the parent company's and the group's ability to continue as going concern, disclosing, as applicable, matters relating to going concern and using the going concern basis of accounting. The financial statements are prepared using the going concern basis of accounting unless there is an intention to liquidate the parent company or the group or cease operations, or there is no realistic alternative but to do so.

### AUDITOR'S RESPONSIBILITIES FOR THE AUDIT OF FINANCIAL STATEMENTS

Our objectives are to obtain reasonable assurance on whether the financial statements as a whole are free from material misstatement, whether due to fraud or error, and to issue an auditor's report that includes our opinion. Reasonable assurance is a high level of assurance, but is not a guarantee that an audit conducted in accordance with good auditing practice will always detect a material misstatement when it exists. Misstatements can arise from fraud or error and are considered material if, individually or in aggregate, they could reasonably be expected to influence the economic decisions of users taken on the basis of the financial statements.



As part of an audit in accordance with good auditing practice, we exercise professional judgment and maintain professional skepticism throughout the audit. We also:

- Identify and assess the risks of material misstatement of the financial statements,
  whether due to fraud or error, design and perform audit procedures responsive to those
  risks, and obtain audit evidence that is sufficient and appropriate to provide a basis for
  our opinion. The risk of not detecting a material misstatement resulting from fraud is
  higher than for one resulting from error, as fraud may involve collusion, forgery, intentional
  omissions, misrepresentations, or the override of internal control.
- Obtain an understanding of internal control relevant to the audit in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the parent company's or the group's internal control.
- Evaluate the appropriateness of accounting policies used and the reasonableness of accounting estimates and related disclosures made by management.
- Conclude on the appropriateness of the Board of Directors' and the Managing Director's use of the going concern basis of accounting and based on the audit evidence obtained, whether a material uncertainty exists related to events or conditions that may cast significant doubt on the parent company's or the group's ability to continue as a going concern. If we conclude that a material uncertainty exists, we are required to draw attention in our auditor's report to the related disclosures in the financial statements or, if such disclosures are inadequate, to modify our opinion. Our conclusions are based on the audit evidence obtained up to the date of our auditor's report. However, future events or conditions may cause the parent company or the group to cease to continue as a going concern.
- Evaluate the overall presentation, structure and content of the financial statements, including the disclosures, and whether the financial statements represent the underlying transactions and events so that the financial statements give a true and fair view.

Obtain sufficient appropriate audit evidence regarding the financial information of the
entities or business activities within the group to express an opinion on the consolidated
financial statements. We are responsible for the direction, supervision and performance
of the group audit. We remain solely responsible for our audit opinion.

We communicate with those charged with governance regarding, among other matters, the planned scope and timing of the audit and significant audit findings, including any significant deficiencies in internal control that we identify during our audit.

We also provide those charged with governance with a statement that we have complied with relevant ethical requirements regarding independence, and communicate with them all relationships and other matters that may reasonably be thought to bear on our independence, and where applicable, related safeguards.

From the matters communicated with those charged with governance, we determine those matters that were of most significance in the audit of the financial statements of the current period and are therefore the key audit matters. We describe these matters in our auditor's report unless law or regulation precludes public disclosure about the matter or when, in extremely rare circumstances, we determine that a matter should not be communicated in our report because the adverse consequences of doing so would reasonably be expected to outweigh the public interest benefits of such communication.

#### OTHER REPORTING REQUIREMENTS

#### INFORMATION ON OUR AUDIT ENGAGEMENT

We were first appointed as auditors by the Annual General Meeting on 21 March 2019.

#### OTHER INFORMATION

The Board of Directors and the Managing Director are responsible for the other information. The other information comprises the report of the Board of Directors and the information included in the Annual Report, but does not include the financial statements and our auditor's report thereon. We have obtained the report of the Board of Directors prior to the date of this auditor's report, and the Annual Report is expected to be made available to us after that date.

Our opinion on the financial statements does not cover the other information.

In connection with our audit of the financial statements, our responsibility is to read the other information identified above and, in doing so, consider whether the other information is materially inconsistent with the financial statements or our knowledge obtained in the audit, or otherwise appears to be materially misstated. With respect to report of the Board of Directors, our responsibility also includes considering whether the report of the Board of Directors has been prepared in accordance with the applicable laws and regulations.

In our opinion, the information in the report of the Board of Directors is consistent with the information in the financial statements and the report of the Board of Directors has been prepared in accordance with the applicable laws and regulations.

If, based on the work we have performed on the other information that we obtained prior to the date of this auditor's report, we conclude that there is a material misstatement of this other information, we are required to report that fact. We have nothing to report in this regard.

#### OTHER OPINIONS ON ASSIGNMENT OF THE BOARD OF DIRECTORS

We support that the financial statements should be adopted. The proposal by the Board of Directors regarding the use of the profit shown on the balance sheet is in compliance with the Limited Liability Companies Act. We support that the Board of Directors of the parent company and the Chief Executive Officer should be discharged from liability for the financial period audited by us.

Helsinki, 10 February 2020

Ernst & Young Oy
Authorized Public Accountant Firm

Mikko Rytilahti Authorized Public Accountant

## Group key figures

Kemira provides certain financial performance measures (alternative performance measures), which are not defined by IFRS. Kemira believes that alternative performance measures followed by capital markets and Kemira management, such as organic growth\*, EBITDA, operative EBITDA, cash flow after investing activities as well as gearing, provide useful information about Kemira's comparable business performance and financial position. Selected alternative performance measures are also used as performance criteria concerning remuneration.

Kemira's alternative performance measures should not be viewed in isolation to the equivalent IFRS measures and alternative performance measures should be read in conjunction with the most directly comparable IFRS measures. Definitions of the alternative performance measures can be found in the Definitions of the key figures in these Financial Statements, as well as at <a href="https://www.kemira.com">www.kemira.com</a> Investors > Financial information.

Kemira adopted IFRS 16 Leases -standard on January 1, 2019. The comparative figures were not restated on date of transition to IFRS 16. In 2019, the key figures (except revenue and capital expenditure) of Income Statements, Balance Sheet and cash flow have been impacted by the adoption of IFRS 16.

	2019	2018	2017	2016	2015
INCOME STATEMENT AND PROFITABILITY					
Revenue, EUR million	2,659	2,593	2,486	2,363	2,373
Operative EBITDA, EUR million	410	323	311	303	287
Operative EBITDA, %	15.4	12.5	12.5	12.8	12.1
EBITDA, EUR million 1)	382	315	282	284	264
EBITDA, %	14.4	12.1	11.4	12.0	11.1
Operative EBIT, EUR million	224	174	170	170	163
Operative EBIT, %	8.4	6.7	6.9	7.2	6.9
Operating profit (EBIT), EUR million 1)	194	148	141	147	133
Operating profit (EBIT), %	7.3	5.7	5.7	6.2	5.6
Share of the results of associates, EUR million $^{1)}$	0	0	0	0	0
Finance costs (net), EUR million	40	25	29	19	31
% of revenue	1.5	1.0	1.2	0.8	1.3
Interest cover, EUR million 1)	9.6	12.6	9.8	14.9	8.6
Profit before tax, EUR million	155	123	113	128	102
% of revenue	5.8	4.8	4.5	5.4	4.3
Net profit for the period (attributable to equity owners of the parent company), EUR million	110	89	79	92	71
Return on investment (ROI), %	8.4	7.0	6.5	7.2	6.6
Return of equity (ROE), %	9.2	7.6	6.7	7.8	6.1
Capital employed, EUR million	1,998	1,781	1,763	1,718	1,660
Operative return on capital employed (ROCE), $\%$	11.2	9.8	9.7	9.9	9.8
Return on capital employed (ROCE), %	9.7	8.3	8.0	8.6	8.0
Research and development expenses, EUR million	30	30	30	32	32
% of revenue	1.1	1.2	1.2	1.4	1.3

<sup>\*</sup> Revenue growth in local currencies, excluding acquisitions and divestments.

	2019	2018	2017	2016	2015
CASH FLOW					
Net cash generated from operating activities, EUR million	386	210	205	271	248
Proceeds from sale of subsidiaries and property, plant and equipment and intangible assets, EUR million	8	7	3	37	3
Capital expenditure, EUR million	204	194	190	211	305
% of revenue	7.7	7.5	7.6	8.9	12.9
Capital expenditure excl. acquisitions, EUR million	201	150	190	213	182
% of revenue	7.6	5.8	7.6	9.0	7.7
Cash flow after investing activities, EUR million	190	29	13	98	-54
Cash flow return on capital invested (CFROI), $\%$	16.5	9.4	9.3	12.5	12.1
BALANCE SHEET AND SOLVENCY					
Non-current assets, EUR million	2,090	1,901	1,842	1,822	1,825
Shareholders' equity (Equity attributable to equity owners of the parent company), EUR million	1,218	1,190	1,159	1,170	1,180
Total equity including non-controlling interests, EUR million	1,231	1,203	1,173	1,183	1,193
Total liabilities, EUR million	1,660	1,561	1,502	1,438	1,402
Total assets, EUR million	2,891	2,764	2,675	2,621	2,595
Net working capital	211	260	211	195	218
Interest-bearing net liabilities, EUR million	811	741	694	634	642
Equity ratio, %	43	44	44	45	46
Gearing, %	66	62	59	54	54
Interest-bearing net liabilities per EBITDA	2.1	2.4	2.5	2.2	2.4

	2019	2018	2017	2016	2015
PERSONNEL					
Personnel at period-end	5,062	4,915	4,732	4,818	4,685
Personnel (average)	5,020	4,810	4,781	4,802	4,559
of whom in Finland	812	821	822	807	793
EXCHANGE RATES					
Key exchange rates on Dec 31					
USD	1.123	1.145	1.199	1.054	1.089
CAD	1.460	1.561	1.504	1.419	1.512
SEK	10.447	10.255	9.844	9.553	9.190
CNY	7.821	7.875	7.804	7.320	7.061
BRL	4.516	4.444	3.973	3.431	4.312
PER SHARE FIGURES					
Earnings per share (EPS), basic and diluted, EUR <sup>2)</sup>	0.72	0.58	0.52	0.60	0.47
Net cash generated from operating activities per share, EUR <sup>2)</sup>	2.53	1.38	1.35	1.78	1.63
Dividend per share, EUR 2) 3)	0.56	0.53	0.53	0.53	0.53
Dividend payout ratio, % 2) 3)	77.6	90.7	102.7	88.0	113.5
Dividend yield, % <sup>2) 3)</sup>	4.2	5.4	4.6	4.4	4.9
Equity per share, EUR <sup>2)</sup>	7.98	7.80	7.61	7.68	7.76
Price per earnings per share (P/E ratio) 2)	18.37	16.85	22.29	20.14	23.29
Price per equity per share 2)	1.66	1.26	1.51	1.58	1.40
Price per cash flow from operations per share <sup>2)</sup>	5.24	7.14	8.54	6.83	6.68
Dividend paid, EUR million 3)	85.5	80.8	80.7	80.8	80.7

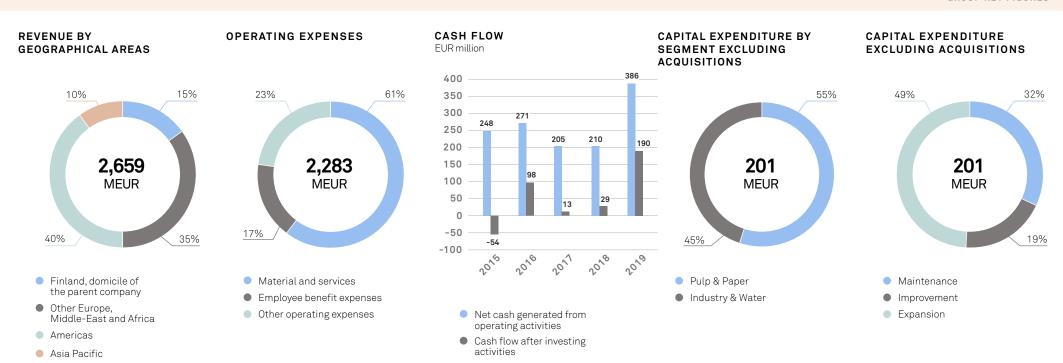
	2019	2018	2017	2016	2015
SHARE PRICE AND TRADING					
Share price, high, EUR	14.99	12.03	12.44	12.55	12.27
Share price, low, EUR	9.77	9.34	10.33	8.92	9.14
Share price, average, EUR	12.56	11.00	11.47	10.96	10.86
Share price on Dec 31, EUR	13.26	9.85	11.50	12.13	10.88
Number of shares traded (1,000)	53,048	43,837	54,169	64,827	74,877
% on number of shares	35	29	36	42	49
Market capitalization on Dec 31, EUR million <sup>2)</sup>	2,024.1	1,502.2	1,752.1	1,848.2	1,654.4
NUMBER OF SHARES AND SHARE CAPITAL					
Average number of shares, basic (1,000) 2)	152,630	152,484	152,359	152,314	152,059
Average number of shares, diluted (1,000) 2)	153,071	152,768	152,594	152,526	152,395
Number of shares on Dec 31, basic (1,000) 2)	152,649	152,510	152,354	152,367	152,062
Number of shares on Dec 31, diluted (1,000) <sup>2)</sup>	153,385	152,927	152,512	152,619	152,544
Increase (+) / decrease (-) in number of shares outstanding (1,000)	139	156	-14	305	11
Share capital, EUR million	221.8	221.8	221.8	221.8	221.8

<sup>1)</sup> In 2019, the share of profit or loss of associates line item has been changed in the in the Consolidated Income Statement as a way that the item is presented in the Consolidated Income Statement as the item included in operating profit (EBIT). Previous financial periods, the share of the results of associates is presented after the finance costs, net.

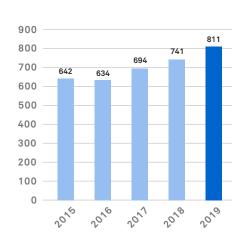
<sup>2)</sup> Number of shares outstanding, excluding the number of treasury shares.

<sup>3)</sup> The dividend for 2019 is the Board of Directors' proposal to the Annual General Meeting.

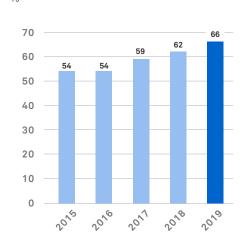








GEARING %



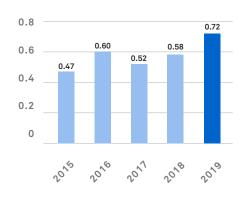
DIVIDEND PER SHARE, EUR AND DIVIDEND YIELD,  $\%^\star$ 



\* The dividend for 2019 is the Board of Directors' proposal to the Annual General Meeting.

#### EARNINGS PER SHARE

EUR



# **Definition of key figures**

#### **FINANCIAL FIGURES**

Operative EBITDA	=	Operating profit (EBIT) + depreciation and amortization + impairments +/- items affecting comparability	Cash flow after investing activities	=		Net cash generated from operating activities + net cash used in investing activities	
		Restructuring and streamlining programs	Restructuring and streamlining programs  Operative return on capital employed		00 x	Operative EBIT <sup>3)</sup>	
Items affecting comparability 1)	=	+ transaction and integration expenses in acquisitions + divestment of businesses and	(operative ROCE) (%)	= 1	00 X	Capital employed <sup>4)</sup>	
		other disposals + other items				Operating profit (EBIT) 3)	
		Operating profit (EBIT) +/- items affecting	Return on capital employed (ROCE) (%)	= 1	00 x	Capital employed 4)	
Operative EBIT	=	comparability				Capital employed	
		Interest-bearing liabilities - cash and cash	Capital turnover	=		Revenue	
Interest-bearing net liabilities	=	equivalents	Capital turnover	_		Capital employed 4)	
		Tabal a suite.				lossones handing out liebilities	
Equity ratio (%)	= 100 x	Total equity	Interest-bearing net liabilities / EBITDA			Interest-bearing net liabilities	
		Total assets - prepayments received				Operating profit (EBIT) + depreciation and amortization + impairments	
		Interest-bearing net liabilities					
Gearing (%)	= 100 x	Total equity				Finance costs, net - dividend income +/- exchange rate differences	
		, ,	Net financial cost (%)	= 1	00 x	Interest-bearing net liabilities 2)	
Interest cover	=	EBITDA				mereor bearing ner habitates	
		Finance costs, net				Inventories + trade receivables + other receivab-	
		Duefit before toy Linterest synamos Lather	Net working capital	=		les, excluding derivatives, accrued interest inco- me and other financing items - trade payables	
Return on investments (ROI) (%)	= 100 x	Profit before tax + interest expenses + other financial expenses	- '			- other liabilities, excluding derivatives, accrued interest expenses and other financing items	
		Total assets - non-interest-bearing liabilities 2)				,	
			Capital employed	=		Property, plant and equipment + right-of- use assets + intangible assets + net working	
		Net profit attributable to equity owners of the parent company	oapitat employed	_		capital + investments in associates	
Return on equity (ROE) (%)	= 100 x	Equity attributable to equity owners of the					
		parent company 2)	1) Financial performance measures which are	not define	ed by IF	FRS may include items of income and expenses that affect	
			and integration expenses in acquisitions, div	estments/	s of bus	. Restructuring and streamlining programs, transaction sinesses and other disposals are considered the most	
Cash flow return on investment	= 100 x	Net cash generated from operating activities	common items affecting comparability.				
(CFROI) (%)		Total assets - interest-free liabilities 2)	2) Average 3) Operating profit (ERIT) taken into account to	r 10 mc=	th roll:	ng avarage at the and of the review period	
			<ol> <li>Operating profit (EBIT) taken into account for 12-month rolling average at the end of the review period.</li> <li>12-month rolling average</li> </ol>				
			-/ 12 month rotting average				

Number of shares on Dec 31



**DEFINITION OF KEY FIGURES** 

#### **PER SHARE FIGURES**

Earnings per share (EPS)	=	Net profit attributable to equity owners of the parent company	Ohana maiaa aasaa saasaa		Shares traded (EUR)
Earnings per share (EPS)	=	Average number of shares	Share price, year average	=	Shares traded (volume)
Net cash generated from operating		Net cash generated from operating activities	Dries was assuring a way share (D/E)		Share price on Dec 31
activities per share	=	Average number of shares	Price per earnings per share (P/E)	=	Earnings per share (EPS)
		Dividend paid			Share price on Dec 31
Dividend per share	=	Number of shares on Dec 31	Price per equity per share	=	Equity per share attributable to equity owners of the parent company
Dividend payout ratio (%)	= 100 x	Dividend per share			Share price on Dec 31
Dividend payout ratio (76)	= 100 X	Earnings per share (EPS)	Price per net cash generated from operating activities per share	=	Net cash generated from operating activities
Dividend yield (%)	= 100 x	Dividend per share			per share
Dividend yield (%)	= 100 X	Share price on Dec 31	Share turnover (%)	= 100	Number of shares traded in main stock exchange
Equity per share	=	Equity attributable to equity owners of the parent company on Dec 31	Share turnerer (79)	_ 100	Average number of shares
- <del></del>					



RECONCILIATION OF IFRS FIGURES

# Reconciliation of IFRS figures

					2019					2018
EUR million	1-3	4-6	7-9	10-12	Total	1-3	4-6	7-9	10-12	Total
ITEMS AFFECTING COMPARABILITY IN EBITDA AND EBIT										
Operative EBITDA										
Pulp & Paper	50.7	53.7	61.3	52.6	218.3	42.7	45.4	52.3	51.2	191.7
Industry & Water	45.0	52.4	56.8	37.5	191.7	26.6	34.8	36.7	33.3	131.5
Total	95.6	106.1	118.1	90.1	410.0	69.4	80.2	89.0	84.5	323.1
Total items affecting comparability	-3.1	-4.0	0.0	-20.5	-27.7	-1.2	2.3	-6.2	-3.2	-8.3
EBITDA	92.5	102.1	118.1	69.6	382.3	68.2	82.5	82.8	81.3	314.8
Operative EBIT										
Pulp & Paper	20.6	24.0	32.1	22.5	99.2	18.9	22.0	26.6	24.1	91.6
Industry & Water	29.5	36.3	39.0	19.9	124.7	15.0	23.0	23.4	20.8	82.2
Total	50.1	60.3	71.1	42.4	224.0	33.9	45.1	50.0	44.8	173.8
Total items affecting comparability	-3.1	-4.0	-2.0	-20.5	-29.6	-1.2	-6.6	-14.1	-3.7	-25.6
EBIT	47.0	56.3	69.2	21.9	194.4	32.7	38.5	35.9	41.1	148.2
Operative EBITDA	95.6	106.1	118.1	90.1	410.0	69.4	80.2	89.0	84.5	323.1
Restructuring and streamlining programs	-0.4	-1.9	-0.5	-10.7	-13.5	0.0	-0.8	-5.5	-2.7	-8.9
Transaction and integration expenses in acquisition	-0.5	0.0	0.0	2.7	2.2	-0.2	0.0	0.0	3.1	2.8
Divestment of businesses and other disposals	0.9	0.0	0.8	-0.8	0.9	0.0	5.7	0.0	0.0	5.7
Other items	-3.2	-2.1	-0.3	-11.6	-17.2	-1.0	-2.6	-0.8	-3.6	-7.9
Total items affecting comparability	-3.1	-4.0	0.0	-20.5	-27.7	-1.2	2.3	-6.2	-3.2	-8.3
EBITDA	92.5	102.1	118.1	69.6	382.3	68.2	82.5	82.8	81.3	314.8
Operative EBIT	50.1	60.3	71.1	42.4	224.0	33.9	45.1	50.0	44.8	173.8
Total items affecting comparability in EBITDA	-3.1	-4.0	0.0	-20.5	-27.7	-1.2	2.3	-6.2	-3.2	-8.3
Items affecting comparability in depreciation, amortization and										
impairments	0.0	0.0	-1.9	0.0	-1.9	0.0	-8.9	-7.9	-0.5	-17.3
Operating profit (EBIT)	47.0	56.3	69.2	21.9	194.4	32.7	38.5	35.9	41.1	148.2



RECONCILIATION OF IFRS FIGURES

					2019					2018
EUR million	1-3	4-6	7-9	10-12	Total	1-3	4-6	7-9	10-12	Total
ROCE AND OPERATIVE ROCE										
Operative EBIT	50.1	60.3	71.1	42.4	224.0	33.9	45.1	50.0	44.8	173.8
Operating profit (EBIT)	47.0	56.3	69.2	21.9	194.4	32.7	38.5	35.9	41.1	148.2
Share of the results of associates	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Capital employed	1,843.6	1,901.0	1,961.8	1,998.2	1,998.2	1,753.9	1,754.6	1,759.5	1,781.4	1,781.4
Operative ROCE, %	10.3	10.8	11.5	11.2	11.2	9.7	9.7	9.8	9.8	9.8
ROCE, %	8.8	9.5	10.9	9.7	9.7	8.1	8.3	8.5	8.3	8.3
NET WORKING CAPITAL										
Inventories	300.8	304.0	304.6	260.6	260.6	237.1	254.9	268.6	283.8	283.8
Trade receivables and other receivables	417.4	413.1	415.1	378.8	378.8	423.7	449.2	457.3	420.2	420.2
Excluding financing items in other receivables	-16.9	-16.3	-17.0	-11.9	-11.9	-22.2	-33.4	-33.1	-32.5	-32.5
Trade payables and other liabilities	522.2	421.7	442.2	455.7	455.7	495.2	405.4	421.5	439.1	439.1
Excluding financing items in other liabilities	-115.5	-23.6	-38.9	-38.8	-38.8	-96.5	-12.3	-9.9	-28.0	-28.0
Net working capital	294.5	313.4	299.3	210.7	210.7	240.0	277.6	281.1	260.4	260.4
INTEREST-BEARING NET LIABILITIES										
Non-current interest-bearing liabilities	790.8	790.4	792.1	737.9	737.9	758.8	658.4	653.1	646.3	646.3
Current interest-bearing liabilities	266.9	222.4	181.5	216.6	216.6	148.9	243.5	236.1	240.0	240.0
Interest-bearing liabilities	1,057.8	1,012.8	973.6	954.5	954.5	907.7	902.0	889.2	886.3	886.3
Cash and cash equivalents	216.2	91.6	107.2	143.1	143.1	229.9	129.3	144.9	144.9	144.9
Interest-bearing net liabilities	841.6	921.1	866.4	811.4	811.4	677.8	772.6	744.3	741.4	741.4



QUARTERLY EARNING PERFORMANCE

## **Quarterly Earning Performance**

_					2019					2018
EUR million	1-3	4-6	7-9	10-12	Total	1-3	4-6	7-9	10-12	Total
Revenue										
Pulp & Paper	380.8	373.4	382.9	385.9	1,522.9	368.7	376.0	385.2	390.4	1,520.2
Industry & Water	267.0	290.2	306.9	271.8	1,135.9	245.0	271.7	284.4	271.5	1,072.6
Total	647.8	663.6	689.8	657.7	2,658.8	613.7	647.6	669.6	661.8	2,592.8
EBITDA 1)										
Pulp & Paper	48.8	51.0	60.8	31.8	192.4	42.1	44.6	48.2	53.0	187.8
Industry & Water	43.7	51.1	57.3	37.8	189.9	26.1	38.0	34.6	28.3	127.0
Total	92.5	102.1	118.1	69.6	382.3	68.2	82.5	82.8	81.3	314.8
EBIT 1)										
Pulp & Paper	18.8	21.3	31.6	1.7	73.4	18.2	21.1	14.6	25.8	79.8
Industry & Water	28.2	35.0	37.6	20.2	121.0	14.5	17.4	21.3	15.3	68.5
Total	47.0	56.3	69.2	21.9	194.4	32.7	38.5	35.9	41.1	148.2
Finance costs, net	-8.8	-10.0	-10.5	-10.4	-39.7	-3.9	-7.4	-7.9	-5.8	-25.0
Share of the results of associates	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Profit before tax	38.2	46.3	58.7	11.5	154.7	28.8	31.1	28.1	35.4	123.3
Income taxes	-8.9	-11.1	-15.3	-3.0	-38.2	-5.8	-7.5	-5.9	-8.9	-28.1
Net profit for the period	29.3	35.2	43.3	8.6	116.5	23.0	23.5	22.1	26.5	95.2
Net profit attributable to										
Equity owners of the parent	27.9	33.6	41.5	7.0	110.2	21.3	21.8	20.6	25.5	89.1
Non-controlling interests	1.4	1.6	1.8	1.5	6.3	1.7	1.8	1.5	1.0	6.1
Net profit for the period	29.3	35.2	43.3	8.6	116.5	23.0	23.5	22.1	26.5	95.2
Earning per share, basic, EUR	0.18	0.14	0.27	0.05	0.72	0.14	0.14	0.14	0.17	0.58
Earning per share, diluted, EUR	0.18	0.14	0.27	0.05	0.72	0.14	0.14	0.14	0.17	0.58

<sup>1)</sup> Includes items affecting comparability.

SHARES AND SHAREHOLDERS

### Shares and shareholders

#### SHARES AND SHARE CAPITAL

On December 31, 2019 Kemira Oyj's share capital amounted to EUR 221.8 million and the number of shares was 155,342,557. Each share entitles to one vote at the general meeting. Kemira Oyj's shares are registered in the book-entry system maintained by Euroclear Finland Ltd.

#### **SHAREHOLDERS**

At the end of December, Kemira Oyj had 33,345 registered shareholders (34,378 on December 31, 2018). Non-Finnish shareholders held 31.9% of the shares (27.4%), including nomineeregistered holdings. Households owned 15.6% of the shares (17.1%). Kemira held 2,693,111 treasury shares (2,832,297), representing 1.7% (1.8%) of all company shares.

A list of Kemira's largest shareholders is updated monthly and can be found on the company website at **www.kemira.com** > Investors.

#### LISTING AND TRADING

Kemira Oyj's shares are listed on Nasdaq Helsinki. The trading code for the shares is KEMIRA and the ISIN code is FI0009004824.

Kemira Oyj's share price increased by 35% from the beginning of the year and closed at EUR 13.26 on the Nasdaq Helsinki at the end of December 2019 (9.85 on December 31, 2018). Shares registered a high of EUR 14.99 and a low of EUR 9.77 in January-December 2019, and the average share price was EUR 12.56. The company's market capitalization, excluding treasury shares, was EUR 2,024 million at the end of December 2019 (1,502).

In January-December 2019, Kemira Oyj's share trading turnover on the Nasdaq Helsinki was EUR 682 million (479 in January-December 2018). The average daily trading volume was 230,086 (175,444) shares.

In addition to Nasdaq Helsinki, Kemira shares are traded on several alternative market places or multilateral trading facilities (MTF), for example at BATS, Chi–X and Turquoise. The total share trading in 2019 was 74 million (68) shares, of which 28% (35%) was executed on other trading facilities than on Nasdaq Helsinki. Source: Nasdaq and Kemira.com.

Up-to-date information on Kemira's share price is available on the company's website at **www.kemira.com** > Investors.

#### DIVIDEND POLICY AND DIVIDEND DISTRIBUTION

On December 31, 2019, Kemira Oyj's distributable funds totaled EUR 848,948,241 of which net profit for the period was EUR 93,521,333. No material changes have taken place in the company's financial position after the balance sheet date.

Kemira Oyj's Board of Directors proposes to the Annual General Meeting to be held on March 25, 2020 that a dividend of EUR 0.56 per share totaling EUR 85 million shall be paid on the basis of the adopted balance sheet for the financial year ended December 31, 2019. The dividend will be paid in two installments. The first installment of EUR 0.28 per share will be paid to a shareholder who is registered in the company's shareholder register maintained by Euroclear Finland Oy on the record date for the dividend payment, March 27, 2020. The Board of Directors proposes that the first installment of the dividend be paid out on April 7, 2020. The second installment of EUR 0.28 per share will be paid in November 2020. The second installment will be paid to a shareholder who is registered in the company's shareholder register maintained by Euroclear Finland Oy on the record date for the dividend payment. The Board of Directors will decide the record date and the payment date for the second installment at the meeting scheduled for October 26, 2020. According to the current rules of

CORPORATE SUSTAINABILITY

SHARES AND SHAREHOLDERS

Euroclear Finland, the record date would then be October 28, 2020, and the dividend payment date November 4, 2020, at the earliest.

Kemira's dividend policy aims to pay a stable and competitive dividend.

#### **BOARD AUTHORIZATIONS**

**kemira** 

The Annual General Meeting on March 21, 2019 authorized the Board of Directors to decide upon repurchase of a maximum of 5,100,000 company's own shares ("Share repurchases authorization"). Shares will be repurchased by using unrestricted equity either through a tender offer with equal terms to all shareholders at a price determined by the Board of Directors or otherwise than in proportion to the existing shareholdings of the company's shareholders in public trading on the Nasdaq Helsinki Ltd (the "Helsinki Stock Exchange") at the market price quoted at the time of the repurchase. The price paid for the shares repurchased through a tender offer under the authorization shall be based on the market price of the company's shares in public trading. The minimum price to be paid would be the lowest market price of the share quoted in public trading during the authorization period and the maximum price the highest market price quoted during the authorization period.

Shares shall be acquired and paid for in accordance with the Rules of the Helsinki Stock Exchange and Euroclear Finland Ltd. Shares may be repurchased to be used in implementing or financing mergers and acquisitions, developing the company's capital structure, improving the liquidity of the company's shares or to be used for the payment of the annual fee payable to the members of the Board of Directors or implementing the company's share-based incentive plans. In order to realize the aforementioned purposes, the shares acquired may be retained, transferred further or cancelled by the company. The Board of Directors will decide upon other terms related to share repurchases. The share repurchase authorization is valid until the end of the next Annual General Meeting. The Board had not exercised its authorization by December 31, 2019.

The AGM authorized the Board of Directors to decide to issue a maximum of 15,600,000 new shares and/or transfer a maximum of 7,800,000 company's own shares held by the company ("Share issue authorization"). The new shares may be issued and the company's own shares held by the company may be transferred either for consideration or without consideration. The new shares may be issued and the company's own shares held by the company may be transferred to the company's shareholders in proportion to their current shareholdings in the company, or by displaying the shareholders' pre-emption right, through a directed share issue, if the company has a weighty financial reason to do so, such as financing or implementing mergers and acquisitions, developing the capital structure of the company, improving the liquidity of the company's shares or if this is justified for the payment of the annual fee payable to the members of the Board of Directors or implementing the company's share-based incentive plans. The directed share issue may be carried out without consideration only in connection with the implementation of the company's share-based incentive plan. The subscription price of new shares shall be recorded to the invested unrestricted equity reserves. The consideration payable for company's own shares shall be recorded to the invested unrestricted equity reserves. The Board of Directors will decide upon other terms related to the share issues. The share issue authorization is valid until May 31, 2020. The share issue authorization has been used and shares owned by the Group were conveyed to members of the Board and key employees in connection with the remuneration.

#### MANAGEMENT SHAREHOLDING

The members of the Board of Directors as well as the President and CEO and his Deputy held 543,463 (511,885) Kemira Oyj shares on December 31, 2019 or 0.35% (0.33%) of all outstanding shares and voting rights (including treasury shares and shares held by the related parties and controlled corporations). Jari Rosendal, President and CEO, held 93,840 shares (77,200) on December 31, 2019. Members of the Management Board, excluding the President and CEO and his Deputy, held a total of 136,971 shares on December 31, 2019 (107,961), representing 0.09% (0.07%) of all outstanding shares and voting rights (including treasury shares and shares held by the related parties and controlled corporations). Up-todate information regarding the shareholdings of the Board of Directors and Management is available on Kemira's website at www.kemira.com > Investors.

SHARES AND SHAREHOLDERS

#### LARGEST SHAREHOLDERS DEC 31, 2019

	Shareholder	Number of shares	% of shares and votes
1	Oras Invest Ltd	31,278,217	20.1
2	Solidium Oy	15,782,765	10.2
3	Varma Mutual Pension Insurance Company	5,329,836	3.4
4	Ilmarinen Mutual Pension Insurance Company	4,118,851	2.7
5	Nordea Funds	2,558,202	1.7
6	Veritas Pension Insurance Company Ltd.	1,435,625	0.9
7	Oppiva Invest Oy	1,336,900	0.9
8	OP-Henkivakuutus Ltd.	1,262,134	0.8
9	Elo Mutual Pension Insurance Company	947,413	0.6
10	Säästöpankki Funds	946,672	0.6
11	Pohjola Fund Management	751,102	0.5
12	Nordea Life Insurance	730,166	0.5
13	Laakkonen Mikko Kalervo	600,000	0.4
14	The State Pension Fund	500,000	0.3
15	Paasikivi Pekka Johannes	434,000	0.3
	Kemira Oyj	2,693,111	1.7
	Nominee registered and foreign shareholders	49,593,969	31.9
	Others, Total	35,043,594	22.5
	Total	155,342,557	100.0

#### SHAREHOLDINGS BY NUMBER OF SHARES HELD ON DEC 31, 2019

Number of shares	Number of shareholders	% of share- holders	Shares total	% of share and votes
1–100	9,062	27.2	515,810	0.3
101-500	13,572	40.7	3,694,319	2.4
501-1,000	5,036	15.1	3,882,545	2.5
1,001-5,000	4,760	14.3	9,969,756	6.4
5,001-10,000	516	1.5	3,785,723	2.4
10,001-50,000	301	0.9	5,982,477	3.9
50,001-100,000	40	0.1	2,997,175	1.9
100,001-500,000	41	0.1	8,434,637	5.4
500,001-1,000,000	6	0.0	4,306,171	2.8
1,000,001-	11	0.0	111,773,944	72.0
Total	33,345	100.0	155,342,557	100.0



INFORMATION FOR INVESTORS

### Information for investors

#### **FINANCIAL REPORTS IN 2020**

Kemira will publish three financial reports in 2020.

April 28, 2020: Interim report for January-March July 17, 2020: Half-year financial report for January-June October 27, 2020: Interim report for January-September

The financial reports and related presentation material are available on Kemira's website at www.kemira.com > Investors. Furthermore, Kemira's stock exchange and press releases, Annual Reports (incl. Corporate Responsibility Report and Financial Statements) and other investor information are also available on the website. On the site, visitors can register to receive releases by e-mail and order the company's Financial Statements. Financial Statements can also be ordered from Kemira Oyj, tel. +358 10 8611.

#### INVESTOR COMMUNICATIONS

The purpose of Kemira's investor communications is to provide capital markets with open and reliable information on the company and its operating environment in order to give market participants a factual overview of Kemira as an investment.

Kemira's investor communications aims to ensure that everyone operating in the markets has equal access to sufficient and correct information concerning the company, and to ensure that information is disclosed consistently and without delay.

Kemira Oyj is domiciled in Helsinki, Finland, and the company's shares are listed on Nasdaq Helsinki. Kemira Oyj complies with the laws of Finland and the regulations of Nasdaq Helsinki and Finland's Financial Supervisory Authority.

#### SILENT PERIOD

Kemira observes a silent period before issuing financial statements or interim reports. During the period, Kemira's representatives do not comment on Kemira's financial statements or interim reports for the ongoing reporting period the specific silent period relates to. The schedule for the silent period and publication of financial information and closed periods is displayed on Kemira's website at <a href="https://www.kemira.com">www.kemira.com</a> Investors > Investor Calendar. Kemira's Investor Relation function is responsible for keeping the calendar up-to-date.

#### **ANNUAL GENERAL MEETING**

Kemira's Annual General Meeting will be held on Wednesday, March 25, 2020 at 1.00 p.m. at Finlandia Hall, Mannerheimintie 13 e, Helsinki, Finland. A shareholder who on the record date of the Annual General Meeting, March 13, 2020, is registered in the company's shareholders' register maintained by Euroclear Finland Ltd, is entitled to attend and participate in the Annual General Meeting.

Registration to the Annual General Meeting has begun on February 11, 2020 and registration instructions has been published on that day as a stock exchange release and at Kemira's web site at **www.kemira.com** > Investors > Corporate Governance > Annual General Meeting > Annual General Meeting 2020.

Kemira will release a stock exchange release on the Annual General Meeting's decisions immediately after the meeting.

#### **DIVIDEND DISTRIBUTION**

For dividend proposal, please see page 95.



INFORMATION FOR INVESTORS

#### **CHANGE OF ADDRESS**

Kemira's shareholders are kindly requested to report any change of address to the bank or brokerage firm in which they have their book-entry account. This will also update information in registers, maintained by Euroclear Finland Ltd, which Kemira uses to send mail to its shareholders.

#### **INVESTOR RELATIONS**

Mikko Pohjala, Vice President, Investor Relations tel. +358 40 838 0709 e-mail: mikko.pohjala@kemira.com

#### **BASIC SHARE INFORMATION**

Listed on: Nasdaq Helsinki Ltd

Trading code: KEMIRA ISIN code: F10009004824 Industry group: Materials

Industry: Chemicals

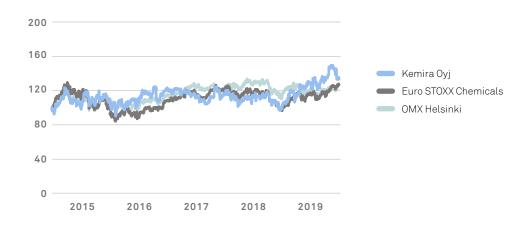
Number of shares on December 31, 2019: 155,342,557

Listing date: November 10, 1994

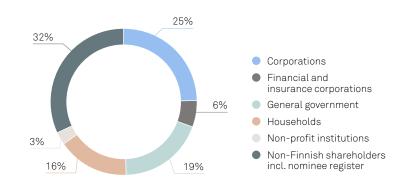
INFORMATION FOR INVESTORS

#### **SHARE PRICE 2015-2019**

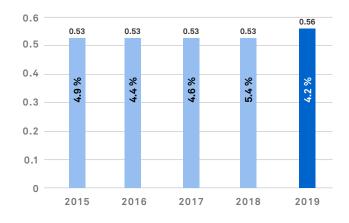
**kemira** 



#### **OWNERSHIP DECEMBER 31, 2019**



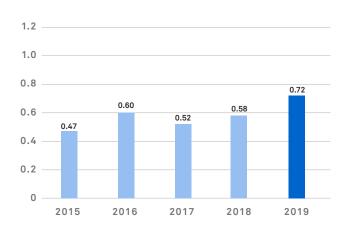
#### DIVIDEND PER SHARE, EUR AND DIVIDEND YIELD, %\*



<sup>\*</sup> The dividend for 2019 is the Board of Directors' proposal to the Annual General Meeting.

#### EARNINGS PER SHARE

EUR



### **kemira**

**KEMIRA** is a global chemicals company serving customers in water intensive industries. We provide best suited products and expertise to improve our customers' product quality, process and resource efficiency. Our focus is on pulp & paper, oil & gas and water treatment. In 2019, Kemira had annual revenue of around EUR 2.7 billion and over 5,000 employees. Kemira shares are listed on the Nasdaq Helsinki Ltd.

#### WWW.KEMIRA.COM

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