

# **Pareto Securities'**

# E&P Independents Conference

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# **Investment highlights**



Differentiated strategy	<ul> <li>Leverage existing energy infrastructure to execute phased, fast-track developments with lower cost and reduced environmental footprint</li> <li>Low exploration cost and risk</li> </ul>	
Unique competence and experience	<ul><li>Experienced management and extensive resources</li><li>Long operation history in all major offshore basins</li></ul>	
Proven E&P capabilities	<ul> <li>18-month development time from acquisition to first oil at Dussafu and on track to significantly increase oil production in Gabon from late 2022</li> <li>Proven ability to add new resources through low per barrel acquisitions and active exploration around established infrastructure</li> </ul>	
Capital efficient growth	<ul> <li>Path to increased Dussafu production and first oil from Maromba at attractive break evens</li> <li>Growing pipeline of new opportunities including the Kudu gas field in Namibia</li> </ul>	
Robust capital structure	<ul> <li>Largely self-financed through strong cash flow and planned RBL</li> <li>Robust cash position and access to capital markets as needed</li> </ul>	

# **BW Energy (BWE) at a glance**



 Investment strategy resilient to cyclical oil and gas business

- On track to triple Dussafu gross production (~40k bopd) from Hibiscus/Ruche Phase 1 development with first oil in late 2022 and completion of planned production wells in 2023
- The Maromba field in Brazil will more than double estimated 2P net reserves and resources to 240 mmbbl\*
- Significant upside beyond current commercial reserves in Dussafu, Maromba and Kudu



Certified 2P and 2C net reserves and resources\*





# **Asset introduction**



### Dussafu

- 73.5% operated working interest
- Inside the 850 km2 Ruche EEA, with six discovered oil fields and numerous leads and prospects
- Average water depth 116 metres
- First oil from the Tortue field in September 2018

### Maromba

- Acquired in 2019, currently 100% WI
- Approved as operator in Brazil
- Eight of nine exploration wells found oil across various reservoirs
- Water depth ~160 meters
- Planned FID in 2022

### Kudu

- 95% working interest
- Gas discovery with significant upside potential
- Water depth ~170 meters
- Revised gas to power development concept in place based on resource efficient semi conversion



### Zero-harm objective for people and environment





Minimizing impact to environment



Working for local society



Sound governance

- COVID-19 still affecting general project execution, equipment deliveries and, in particular, FPSO operation and offshore modification work
- One LTI for full-year 2021
- Security risk at Dussafu is low
- No environmental incidents



Estimated GHG emission-savings from redeployment of existing FPSO<sup>1</sup>vs. newbuild

1) FPSO BW Adolo case study based on  $CO_2$  emission tied to steel consumption and operations



# Asset Overview: Dussafu

### **Dussafu production and forecast**



#### **Gross production profile**

kbbls/day



#### Quarterly gross production

kbbls/day



- Over 15 mmbbl produced to date from Tortue
- Q1 production of ~11,600 bopd
  - Impacted by planned maintenance shutdown and limited gas lift capacity which will continue to impact in Q2 and Q3
- 2022 production estimate ~4.2 5.2 mmbbl
- Additional gas lift required to reach full potential
  - Well capacity ~19,000 bopd lack of gas lift capacity is deferring production production
  - Additional larger gas lift compressor ordered with expected installation in Q4 2022
  - Impact on near-term production rate only, the long-term recovery rate from Tortue remains unchanged

### **Hibiscus / Ruche development**



- Initial production from Hibiscus and Ruche fields estimated to add ~30,000 bopd of production
  - 4 Hibiscus Gamba wells, 2 Ruche Gamba
- Jack-up rig conversion to offshore production unit Hibiscus Alpha progressing at Lamprell Yard
  - Supply chain disturbances caused by Covid-19 and war in Ukraine affecting some equipment deliveries
- 20 km pipeline from Hibiscus Alpha to BW Adolo FPSO to be installed by Technip
- On track for first oil in late 2022 with CAPEX at approximately USD 400 million
  - Focus on managing industry-wide supply chain disruptions caused by Covid and the war as well as the inflation on services and materials
- A highly prospective area with significant potential





# Asset Overview: Maromba

# Unlocking material production in the Campos Basin Revenues

- BWE has concluded on a development plan for Maromba
- Final investment decision subject to completion of project financing activities
- First oil is planned in 2025
  - Expected peak oil production of 30-40,000 bopd
- Entered in an agreement to purchase FPSO Polvo for a total consideration of USD 50 million from BWO
- Development plan approved by ANP and IBAMA environmental approval expected in due course
- Gross 2C reserves in place estimated at 467 mmbbl with an estimated recovery of ~100 mmbbl from the first phase of development



# **Development plan**



- Redeployment of BWO Polvo after refurbishment and life extension work
- Single 6 well PLEM expandable for future Phases
- Production wells in single drill center for drilling and workover efficiencies
  - First set of 3 wells to be drilled in 2025
  - Second set of 3 wells to be drilled in 2027
- 10" Production & 8" Test Lines
- Gas Import Pipeline for future phases

### **FPSO located northeast of drill center**



# FPSO redeployment - CAPEX efficient and low-risk

- Well known FPSO
  - Producing until 2021 at the Polvo field close to Maromba with similar oil and reservoir characteristics
  - Process system designed for heavy crude
  - Polvo field 18° API vs. Maromba field 16° API
- Detailed plan for repair and life extension established
  - Steel renewal, repainting
  - Accommodation upgrade
  - Turret modification and swivel replacement
  - Boiler replacement
  - Process plant adjustments
- 1.2 million barrels storage capacity for direct offloading to standard Suezmax tankers
- Unit familiar to Brazil regulators (ANP, IBAMA, Navy)



#### Redeployment compared to new production facility

- Reduced investments
- Shorter time to first oil
- Reduced CO<sub>2</sub> emissions



# Asset Overview: Kudu

### Kudu is becoming a good neighbourhood

- Significant recent oil and gas discoveries made by Totalenergies and Shell confirms the high potential offshore Namibia
- Kudu tested for gas in multiple reservoirs with upside potential to be appraised during production drilling
  - Supported by extensive 2D/3D seismic, well and reservoir data acquired by Chevron, Shell and Tullow
- Exploration upside along Kudu North Ridge (10 to 30 km step out) with potential for both oil and gas
- Current development based on P90 gas in place

	BWE Modeling		
Kudu Gas in Place (BCF)	P90	P50	P10
	788	1309	1955



Kudu North



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# Kudu gas to power

### Under discussion with the Namibian stakeholders

- Replacing imported coal based power from South Africa and making Namibia energy independent and - exporter
- Three subsea wells producing from the discovered and delineated Kudu K3 reservoir
- Floating Production Facility (FPF) based on converted semisubmersible rig acquired in Q1 2022
  - 130 mmscf/d of gas and 100 bopd of condensate
- Gas Export Pipeline: ~195 km of 12 inch pipeline from the FPF to Elizabeth Bay
- Nearshore jack-up barge Power Plant (PP)
  - Breakwater roadway to barge
- Onshore substation and transmission system tie-in to the Namibian power grid
  - Transmission line from Luderitz to Namib and then to Obib hub



### 



# Summary

# **Production outlook**

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#### 80,000 70,000 Maromba Phase 2 60,000 Maromba 50,000 Phase 1 40,000 30,000 Hibiscus/Ruche Hibiscus/Ruche Phase 2 Phase 1 20,000 10,000 Tortue 2018 2019 2021 2022E 2023E 2024E 2025E 2026E 2027E 2020

### **Gross production estimate bbls/day<sup>1</sup>**



### Net production estimate bbls/day<sup>1</sup>

### **Strategic priorities and value levers**

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### **Production and exploration**

- Optimising Dussafu output
  - Increase gas lift capacity
- Executing Dussafu exploration program

### **Development**

- Bringing Hibiscus / Ruche to first oil in late 2022
- Progressing Maromba to FID in 2022 and planned first oil in 2025
- Maturing new, right-sized Kudu gas to power concept with lower capex and improved timeline

### Corporate

- Maintaining strong balance sheet
- Ensuring operational cash flow to fund new projects and future shareholder returns
- Intention to pay dividend of up to 50% of net profit once fully operational at Dussafu and Maromba
- Progressing RBL financing





