4 MAY 2021

Macquarie Conference 2021





# **Compliance statements**



### Disclaimer

This presentation contains forward looking statements that are subject to risk factors associated with oil, gas and related businesses. It is believed that the expectations reflected in these statements are reasonable but they may be affected by a variety of variables and changes in underlying assumptions which could cause actual results or trends to differ materially, including, but not limited to: COVID-19 risks, price fluctuations, actual demand, currency fluctuations, drilling and production results, reserve estimates, loss of market, industry competition, environmental risks, physical risks, legislative, fiscal and regulatory developments, economic and financial market conditions in various countries and regions, political risks, project delays or advancements, approvals and cost estimates. Please refer to the Directors' Report in the FY20 annual report for more details specifically relating to COVID-19 risks.

Underlying EBITDAX (earnings before interest, tax, depreciation, amortisation, evaluation, exploration expenses and impairment adjustments), Underlying EBITDA (earnings before interest, tax, depreciation, amortisation, evaluation and impairment adjustments), underlying EBIT (earnings before interest, tax, and impairment adjustments) and underlying profit are non-IFRS financial information provided to assist readers to better understand the financial performance of the underlying operating business. They have not been subject to audit or review by Beach's external auditors. The information has been extracted from the audited or reviewed financial statements.

All references to dollars, cents or \$ in this presentation are to Australian currency, unless otherwise stated. References to "Beach" may be references to Beach Energy Limited or its applicable subsidiaries. Unless otherwise noted, all references to reserves and resources figures are as at 30 June 2020 and represent Beach's share.

References to planned activities in FY21 and beyond FY21 may be subject to finalisation of work programs, government approvals, joint venture approvals and board approvals.

Due to rounding, figures and ratios may not reconcile to totals throughout the presentation.

### **Authorisation**

This release has been authorised for release by Matt Kay, Managing Director and Chief Executive Officer of Beach Energy.

### Assumptions

Remaining FY21 guidance is uncertain and subject to change. Q4 FY21 guidance has been estimated on the basis of the following assumptions: 1. a US\$65.00/bbl Brent oil price; 2. 0.77 AUD/USD exchange rate; 3. various other economic and corporate assumptions; 4. assumptions regarding drilling results; and 5. expected future development, appraisal and exploration projects being delivered in accordance with their current expected project schedules.

These future development, appraisal and exploration projects are subject to approvals such as government approvals, joint venture approvals and board approvals. Beach expresses no view as to whether all required approvals will be obtained in accordance with current project schedules.

#### **Reserves disclosure**

Beach prepares its petroleum reserves and contingent resources estimates in accordance with the 2018 update to the Petroleum Resources Management System (PRMS) published by the Society of Petroleum Engineers.

The reserves and resources information in this report is based on, and fairly represents, information and supporting documentation prepared by, or under the supervision of, Mr David Capon (General Manager Development - Victoria, New Zealand). Mr Capon is a full-time employee of Beach Energy Limited and has a BSc (Hons) degree from the University of Adelaide and is a member of the Society of Petroleum Engineers. He has in excess of 25 years of relevant experience. The reserves and resources information in this presentation has been issued with the prior written consent of Mr Capon as to the form and context in which it appears.

Beach most recently released full Company reserves information in its 2020 Annual Report. Information about the updated reserves position relating to Beach's Western Flank oil and gas acreage contained in ASX announcement #013/21 from 30 April 2021: "Business Update", contracted acquisition of Senex is contained in ASX announcement #037/20 from 3 November 2020: "Beach expands Cooper Basin Portfolio" and the contracted acquisition of Mitsui's interests in the Bass Basin are contained in ASX announcement #002/21 from 27 January 2021: "FY21 Second Quarter Activities Results". Information about the Enterprise 1 discovery reserve booking are included in the ASX announcement #004/21 from 15 February 2021: "Enterprise Exploration Success Delivers Material 2P Reserves Booking". Beach confirms that it is not aware of any other new information or data that materially affects the information included in this announcement and that all the material assumptions and technical parameters underpinning the estimates in the aforesaid market announcements continue to apply and have not materially changed.

FY21 2P reserves estimates take into account forecast full year FY21 production as required. Reserve estimates may change if production is different to forecast. Conversion factors used to evaluate oil equivalent quantities are sales gas and ethane: 5.816 TJ per kboe, LPG: 8.458 ktonnes per boe, condensate: 1.069 bbl per boe and oil: 1 bbl per boe. The reference point for reserves determination is the custody transfer point for the products. Reserves are stated net of fuel, flare & vent and third-party royalties.

### Macquarie Conference 2021 Key takeaways

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Recent Western Flank performance led to review and 18.4 MMboe net downgrade to 2P oil and gas reserves<sup>1,2,3</sup>

Lattice acquisition provided strategically diversified gas portfolio with exposure to four structurally short gas markets by mid-FY24

Stable earnings base supported by fixed-price gas business, delivering revenue of >\$440 million during FYTD<sup>4</sup>

Re-investing cash flow into long-life growth projects, increasing earnings of Beach's stable gas business

Balance sheet continues to support capital intensive FY22 and FY23 program and delivery of our key gas growth projects<sup>5</sup>

Production growth expected from FY23 with Waitsia LNG and offshore Otway developments

<sup>1</sup>Refer to ASX announcement #013/21 from 30 April 2021: "Business Update". Evaluation date of reserves as at 30 June 2021. <sup>2</sup>Reduction to Western Flank oil field 2P reserve of 17.6 MMbbls, offset by increase of 4.2 MMbbls in 2P oil reserves following acquisition of Senex Energy's Cooper Basin assets. <sup>3</sup>Reduction to Western Flank gas field 2P reserve of 7.2 MMboe, offset by increase of 2.2 MMboe in 2P gas reserves following acquisition of Senex Energy's Cooper Basin assets <sup>4</sup>As at 31 March 2021

<sup>5</sup>Growth projects include Waitsia Gas Project Stage 2, offshore Victorian development drilling campaign, development of the Enterprise gas discovery and potential Trefoil development (remains uncommitted)

# Health, safety and environmental performance Safest year on record to date



#### Safety performance (TRIFR<sup>1</sup>) 15.6 7.9 5.9 5.7 4.1 3.5 3.7 3.4 2.0 FY15 FY16 FY17 FY18 FY19 FY20 FY21

#### Safety

Beach has achieved 400+ days Lost Time Injury free

#### Environment

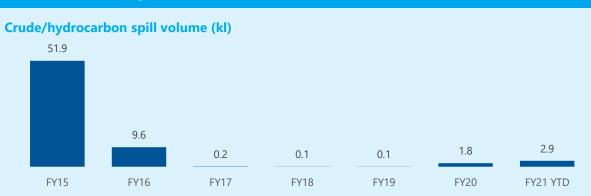
- Improved performance with rate of minor spills reduced by 30% YTD
- One hydrocarbon spill event >1 bbl in volume

#### **Process safety**

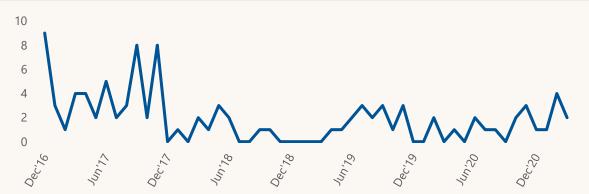
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- No material gas releases
- Continued focus on eliminating minor process safety events

#### **Environmental performance**



### **Process safety events – loss of containment<sup>2</sup>**





# Committed to reducing our emissions

# Progressing delivery of 25% emission reduction



### **Initiatives include:**

### Flare and vent management

- Beach is implementing initiatives to reduce the need for flaring across operational sites
- Initiatives include flare minimisation during shutdown and start-up situations, as well as the optimisation of purge and pilot gas scenarios

#### **Bauer Hybrid Renewable Project**

- Beach is undertaking concept select
- The project will deliver energy supply to the field through a combination of wind, solar, battery and diesel generation

### Leak Detection and Repair Program

- Program now in place for two gas facilities, the remaining gas assets will be completed this financial year
- The program is delivered though the use of latest technology imaging equipment

**Committed to offsetting 100% of Waitsia reservoir CO<sub>2</sub> (~60% project emissions) from first production** 



Committed to funding of Cooper Basin CCS project FEED study, in addition to "25by25" targets

# **Refreshed Executive Team**



Changes to technical team provides renewed oversight to Beach's portfolio and drive the next phase of growth across development and sustainability



#### Thomas Nador – Group Executive Development

- Joined Beach in July 2019 as General Manager Western Australia Development, with focus on delivering Waitsia Stage 2 FID
- Commenced Executive role in February 2021
- Brings more than 25 years experience in offshore development and LNG projects, including roles at InterOil and Woodside



#### Ian Grant – Chief Operating Officer

- Joined Beach in July 2020
- More than 25 years experience in offshore operations and asset management, including overseeing facilities and drilling activities across major North Sea and Western Australia developments
- Previously COO for Quadrant Energy and prior experience with Apache Corporation



# Stephen (Sam) Algar – Group Executive Exploration and Subsurface

- Joined Beach in February 2021
- More than 25 years of experience in exploration and subsurface across Australia, SE Asia, Africa and North America
- Previous roles at Oil Search Limited (SVP Subsurface and Exploration) and Murphy Oil



#### Brett Doherty– Group Executive Health, Safety, Environment and Risk

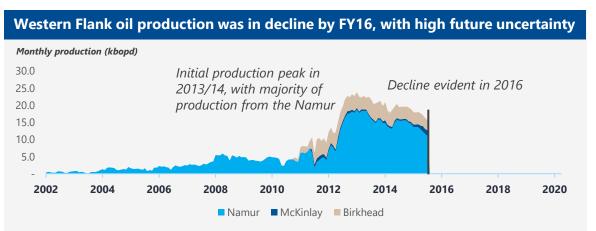
- Joined Beach in February 2018
- More than 30 years experience in offshore and onshore development and operations, including roles with Santos and INPEX in Australia and RasGas in Qatar
- Sustainability incorporated into Brett's role in 2021

# Western Flank 2P reserve downgrade



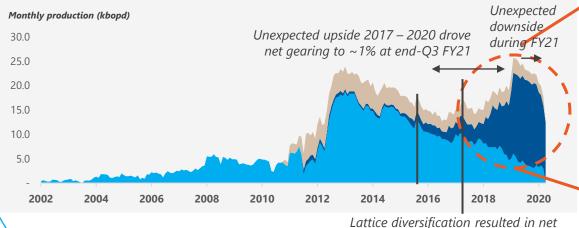
# Western Flank oil background

### Reversal of FY16 Western Flank oil decline accelerated deleveraging of Beach's balance sheet



(\$ million)	31 Jan 2018	31 Mar 2021
Cash	135	190
Drawn debt facilities	995	210
Net debt / (cash)	860	20
Net gearing (%)	~33%	~1%
Undrawn debt facilities	405	240
Liquidity	540	430

# Introduction of horizontal drilling and development of McKinlay reservoir rejuvenated Western Flank oil and delivered a second production peak in 2020



gearing of ~33% in January 2018

#### Free cash flow from Western Flank oil assets has supported:

~\$1.0 billion of Lattice debt repaid within 18 months

>\$150 million of fully franked dividends paid since completion of Lattice acquisition

Approximately \$2.0 billion reinvested at ROCE of ~17%



## Bauer oil field update

### New production information now indicates 2P reserves downgrade

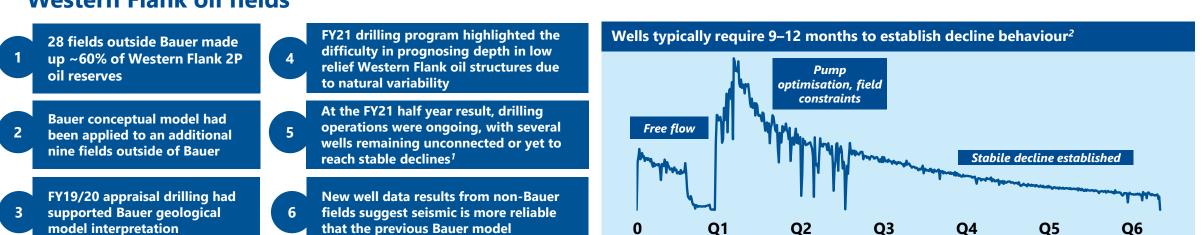
#### **BAUER – DISCLOSED TO MARKET AT FEBRUARY 2021 RESULT**

- 18 Bauer McKinlay horizontal development wells drilled in 2020
- Bauer wells came in on-prognosis throughout the program, however production declined more rapidly than predicted
- Disclosed larger than expected production declines within the Bauer field at the FY21 half year results
- Interference between new horizontal McKinlay producers and both existing Namur producers and other McKinlay wells
- Initial interpretation highlighted accelerated production with new data being assimilated before we could assess reserves impact

#### **BAUER UPDATE**

- New Bauer reservoir model developed incorporating FY21 drilling results, supported by DCA<sup>1</sup> to re-forecast field EUR
- New model indicates 2P reserve reduction of 6.0 MMbbls within the Bauer field (pre-production impact)
- Reserves reviewed by Beach's reserves auditor RISC. Procedures and methodologies reviewed by two other external reserves experts
- <u>Field not yet fully developed</u> infield horizontal drilling opportunities remain and are planned to be targeted during the FY22 drilling program

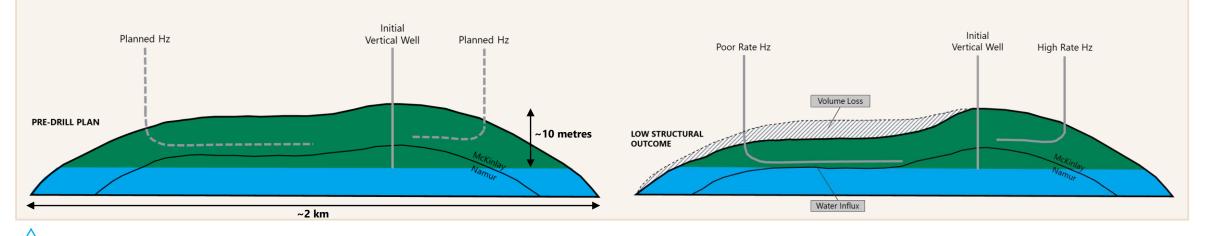




# Non-Bauer Western Flank oil field issues

# Recent production data shows Bauer model likely not applicable across all Western Flank oil fields

VOLUMETRIC AND PRODUCTION IMPACT OF LOW STRUCTURAL OUTCOMES ENCOUNTERED IN MANY NON-BAUER FIELDS DURING THE RECENT FY21 DEVELOPMENT DRILLING



<sup>1</sup>FY21 drilling program completed in early March – two Balgowan wells and a single Callawonga well are still to be tied-in. <sup>2</sup>Chiton 7 well profile is typical for a McKinlay horizontal well with artificial lift profile translatable across other Western Flank oil fields.

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### Current status

# Net downgrade to Western Flank 2P oil and gas reserves<sup>1</sup>, equates to ~5% of Company 2P reserves at 30 June 2020



#### WESTERN FLANK 2P OIL AND GAS RESERVE DOWNGRADE

#### MMboe

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Bauer oil field (within ex-PEL 91)	(6.0)
Four other ex-PEL 91 oil fields <sup>2</sup>	(8.2)
Four ex-PEL 92 oil fields <sup>3</sup>	(2.2)
Acquired Senex Western Flank oil acreage <sup>4</sup>	(1.2)
Total 2P oil reserve downgrade	(17.6)
Ex-PEL 106 gas fields	(7.2)
Total 2P gas reserve downgrade	(7.2)
Uplift from acquired Senex Western Flank oil acreage	4.2
Uplift from acquired Senex Western Flank gas acreage	2.2
Total 2P oil and gas reserve downgrade	(18.4)

#### **CURRENT WESTERN FLANK 2P OIL AND GAS RESERVES**

MMboe	30 June 2020	FY21 revisions	FY21 <sup>5</sup> production	30 June 2021	Change <sup>6</sup> (%)
Western Flank 2P oil reserves	46.1	(13.4)	(6.8)	25.9	(34%)
Western Flank 2P gas reserves	15.5	(5.0)	(1.8)	8.7	(36%)
Western Flank 2P oil and gas reserves	61.6	(18.4)	(8.6)	34.6	(35%)

<sup>1</sup>Refer to ASX announcement #013/21 from 30 April 2021 "Business Update". Evaluation date of reserves as at 30 June 2021. <sup>2</sup>Four ex-Bauer fields include Chiton, Kalladeina, Balgowan and Hanson.

<sup>3</sup>PEL 92 field includes Callawonga, Butlers, Parsons and Rincon.

<sup>4</sup>Lower 2P oil reserves associated with the Senex Energy Cooper Basin asset acquisition were incorporated into the purchase price.

#### Annual reserve audit underway<sup>7</sup>, to be completed in August 2021

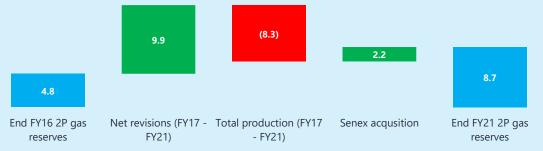
#### WESTERN FLANK 2P OIL RESERVES SINCE END-FY16 (MMbbls)

2P oil reserve remain ~90% above FY16 2P oil reserves, incl. ~29 MMbbls of oil production



#### WESTERN FLANK 2P GAS RESERVES SINCE END-FY16 (MMboe)

#### 2P gas reserve remain ~80% above FY16 2P gas reserves, incl. ~8.2 MMboe of gas production



<sup>5</sup>Production forecast is a combination of actuals until the end of March 2021 and forecast production volumes for Q4 FY21. <sup>6</sup>Change between 30 June 2020 and 30 June 2021, less production impact during FY21.

<sup>7</sup>Beach typically commence the annual reserve audit process during March, with completion in August.

## Outlook Impacts on FY21 guidance



### **FY21 GUIDANCE UPDATE**

	Pre-acquisition guidance	Pro-forma guidance <sup>7</sup>	Updated pro-forma guidance		
Production (MMboe)	25.5 – 26.5	26.5 – 27.5	25.2 – 25.7		
Capital expenditure <sup>2</sup> (\$ million)	\$720 –	\$700 – 740			
Underlying EBITDA <sup>3,4</sup> (\$ million)	\$900 – 950		\$850 – 900		
Unit operating cost (\$ per boe)	\$9.00 - 9.40		\$9.00 - 9.40 \$10.00 - 10.		\$10.00 - 10.50
Unit DD&A (\$ per boe)	\$16.50 –	\$16.25 – 16.75			

Five-year outlook is withdrawn and Beach will no longer provide a five-year outlook in its current form<sup>5</sup>

# Anticipate 4.0 – 5.0 MMbbl reduction in Western Flank oil production in FY22

Assessment of carrying values at the FY21 Full Year Audited Results in August 2021 could lead to impairment

#### FY21 PRODUCTION GUIDANCE IMPACTED BY:

- Reduced reservoir performance and natural field declines within Western Flank oil fields
- Lower customer nominations for the Victorian Otway

Strong balance sheet and high quality, stable gas revenue underpins growth capital programs in FY22 and FY23

#### Gas business provides revenue stability with uplift on completion of offshore Otway and Waitsia developments

<sup>1</sup>Pro forma includes production from Senex Energy's Cooper Basin and Mitsui's Bass Basin assets, with an effective date 1 July 2020. Other pro forma financial guidance based on Senex Energy Cooper Basin asset acquisition at completion of 1 March 2021 and assumes a Mitsui Bass Basin asset completion date of 1 January 2021 for accounting purposes.

<sup>2</sup>Excludes abandonment activities.

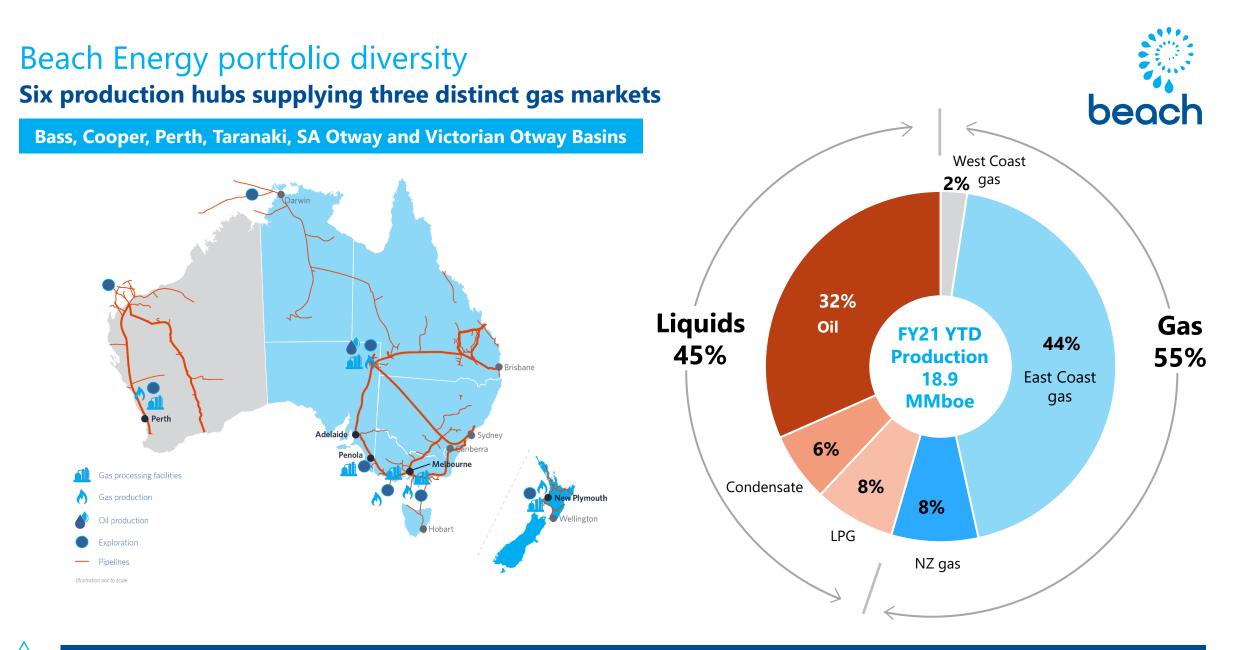
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<sup>3</sup>Economic assumption Q4 FY21: Brent price – US\$65.00 per bbl, AUD/USD – 0.770, NZD/AUD – 1.07.

<sup>4</sup>Includes the preliminary outcome of the Otway gas price arbitration.

<sup>5</sup>Outlook impacted by variability to the business, which includes adjustments in work programs that were experienced during the COVID-19 pandemic, reductions in the Western Flank oil and gas production profile and variations to project interests as a result of asset acquisitions.

# Our Strategy



Geographical locations, product mix and market distribution provides a diversified portfolio

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## A strategically diversified portfolio 2017 Lattice acquisition positioned Beach beyond Western Flank oil and gas assets



### SINGLE ASSET RISK AND UNCERTAINTY OF WESTERN FLANK ASSETS WAS A KEY DRIVER OF DIVERSIFICATION

# End FY16

- Single basin (Cooper)
- Reliance on legacy Cooper Basin infrastructure
- Single gas market

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- Western Flank oil production in decline
- Western Flank oil 42% production and 20% 2P reserves<sup>1</sup>
- Company 2P reserves life of 7.2 years

# End FY20

- Six production hubs across five basins
- >400% increase in 2P reserves
- Four independent gas markets
- Broad portfolio for significant organic growth
- Western Flank oil 28% production and 13% 2P reserves<sup>1</sup>
- Company 2P reserves life of 13.2 years

### **DIVERSIFICATION = Lattice acquisition + Exploration + Bolt-on acquisitions**

### WESTERN FLANK EXPLORATION AND DEVELOPMENT ACTIVITIES CONTINUING

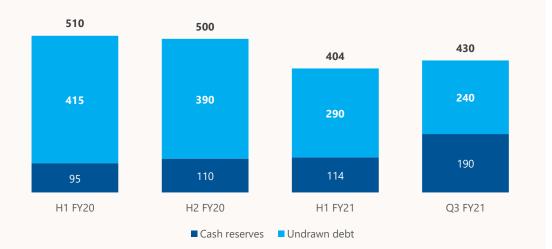
<sup>1</sup>Compared to Beach's total corporate production (FY16: 9.7 MMboe, FY20: 26.7 MMboe) and 2P reserves (FY16: 69.8 MMboe, FY20: 352 MMboe.)

# Maintaining financial strength

### Net gearing <1%, supported by stable gas cash flows, which are expected to grow in FY22



### Available liquidity (\$ million) at 31 March 2021



- Cash reserves of \$190 million
- Net debt position of \$20 million<sup>1</sup>
- Total liquidity of \$430 million, includes \$240 million in undrawn loan facilities
- Net gearing<sup>2</sup> of <1.0%
- Cash flow from operations and existing cash and loan facilities to deliver growth ambitions across three gas developments

### Capital management framework

#### **Beach's capital management priorities:**

- Beach remains a growth orientated company
- Substantial portfolio of highly value-accretive organic growth opportunities in execution
- Beach to remain selective and disciplined in relation to any potential M&A opportunities
- Free cash flow generation prioritised towards growth re-investment
- Conservative approach to balance sheet management
- Currently assessing the impact of the Federal Government's stimulus initiative that allows businesses to immediately deduct certain capital assets, reducing taxable income, which is expected to have a positive impact on operational cash flows over the next three financial years

# Delivering our growth strategy

### Continuing to re-invest in our high-returning, diversified gas business

**OTWAY BASIN** 



**BASS BASIN** 

Production growth expected from FY23 with committed Waitsia LNG and offshore Otway developments	Production growth committed:
	<ul> <li>Production uplift expected to fill Otway Gas Plant by mid-FY23</li> </ul>
	<ul> <li>Early exploration success in the FY21 offshore Otway drilling campaign at Artisan and Enterprise</li> </ul>
	<ul> <li>Waitsia Gas Project Stage 2 targeting first gas in H2 2023</li> </ul>
	<ul> <li>Kupe production returning to plateau following completion of compressor installation, targeting first gas in H1 FY22</li> </ul>
	<ul> <li>Life extension of the Yolla gas platform from the potential Trefoil development1 from FY25, FEED activities commencing in H2 FY21</li> </ul>
FY21 production Committed Otway Committed Waitsia Potential Trefoil forecast production uplift Gas Project Stage 2 contribution	<ul> <li>Potential exploration and appraisal across the entire Cooper Basin portfolio</li> </ul>

**PERTH BASIN** 

## **Growth Projects**

Clontal l'Ojecto				
	Offshore	Nearshore	Waitsia Gas Project Stage 2	<b>Trefoil</b> <sup>7</sup>
Ownership (%)	60%*		50%	90.25% <sup>*,1</sup>
Anticipated first production <sup>2</sup>	FY22	FY23	H2 2023	FY25
Net production uplift by FY25 (MMboe)	5.0 – 5.4 MMboe		5.5 – 6.0 MMboe	2.0 – 2.2 MMboe
Capital cost (\$ million) (gross) <sup>3</sup>	1,100 – 1,300 <sup>6</sup>	60 – 70	700 – 800	500 – 600
Project IRR (%) <sup>4</sup>	>20%	>50%	~20%	>20%
Expected payback period (years) <sup>5</sup>	< 4 years	< 3 years	< 3 years	< 3 years
Life of asset (years)	> 15 years		> 15 years	~15 years

\*Denotes project operator

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"Not yet a committed project. Subject to completion of the proposed acquisition of Mitsui's Bass Basin assets, expected to complete in Q1 FY22

<sup>2</sup>Refer to "Compliance Statements" slide (p.2) of this presentation surrounding planned work programs. <sup>3</sup>Forecast total project capital expenditure to first delivery of hydrocarbons (unless otherwise stated). <sup>4</sup>Internal rate of return (IRR) calculated based on internal assumptions, set out on the "Compliance Statements" slide 2. <sup>5</sup>Payback period calculated from time of first production.

<sup>6</sup> Upper end of the range includes contingent costs associated with Artisan 1 success case. Excludes any success at La Bella and T/30 P. Capital expenditure to completion of the drilling program..

# Beach has delivered on key milestones

Focus on execution and delivery of our growth strategy



### DELIVERED

- Delivered Final Investment Decision at Waitsia Gas Project Stage 2 on schedule, which followed execution of key agreements to process Waitsia gas into LNG through the NWS facilities
- Delivered 100% exploration success in the Otway drilling campaign, which included two gas discoveries (Enterprise and Artisan) and 2P reserves addition at the Enterprise field
- Delivered two bolt-on acquisitions during the downturn, setting a platform for the next phase of growth
- **Delivered** positive outcome relating to Otway gas price review arbitration

### **UPCOMING ACTIVITIES**

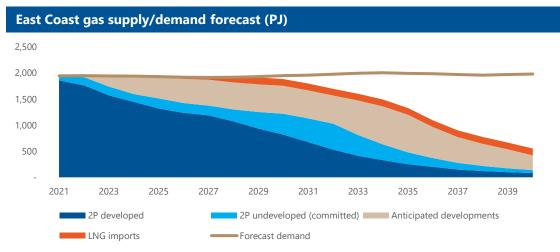
- Targeting completion of Kupe compression, expected online in H1 FY22
- Continuing development drilling in the offshore Otway, with first gas from Geographe wells expected to commence in FY22, providing an uplift to Victorian Otway production
- Waitsia LNG marketing activities continuing, with strong interest from potential buyers
- Commencing construction activities at Waitsia Stage 2, with first gas targeting H2 2023
- Focused on return to exploration on the Western Flank oil and gas fields to potentially arrest declines
- On track to enter FEED activities for the potential Trefoil development in Q4 FY21, opportunity to extend the life of the Yolla platform and Lang Lang Gas Plant

# Our Markets

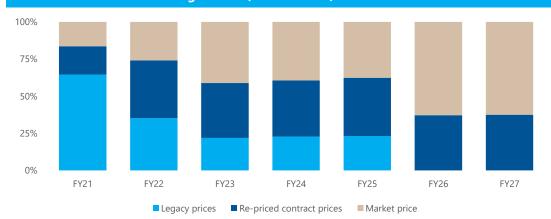
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## East Coast domestic gas market Emerging supply shortfall supports Beach's east coast gas strategy





Beach's forecast East Coast gas sales (% of volume)



#### Source: AEMO 2021 Gas Statement of Opportunities – central scenario (March 2021)

AEMO <sup>1</sup> continues to see gas shortfall wit	hin eastern states from winter 2023 <sup>2</sup>	Beach and
Insufficient reserves to meet domestic demand	Current shortfall being met by diverting Queensland CSG volumes into southern gas markets	Beach mee
Supply scarcity emerging from as early as winter 2023 <sup>2</sup>	Beach estimates LNG import facility would become marginal price setter in southern states at >\$10 per GJ <sup>3</sup>	Positiv re-p reir

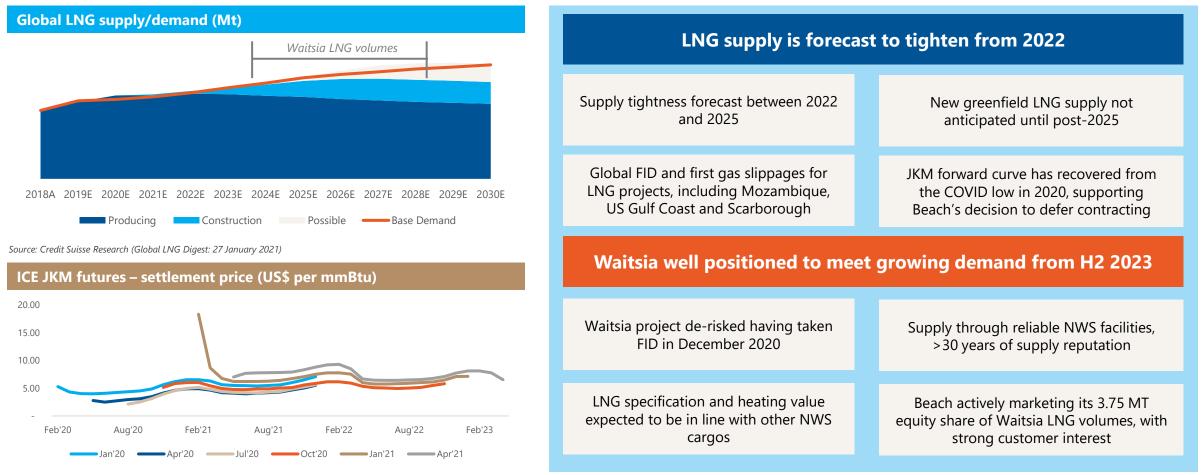
#### Beach and our JVPs continue to invest into the East Coast gas market

Beach's assets well positioned to meet demand in the premium southern gas markets	Investing >\$1 billion into offshore Otway Basin to refill the ~205 TJ per day Otway Gas Plant by mid-FY23
Positive outcome in the Otway gas	Progressing to FEED for the potential
re-pricing arbitration, supports	Trefoil development during Q4
reinvestment into gas supply	FY21 to refill Lang Lang Plant

### LNG markets

### Beach to become an LNG producer at an opportune time in the LNG cycle

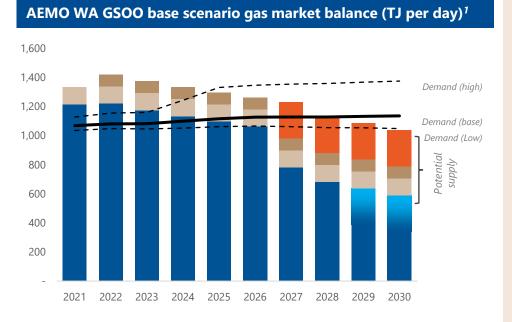




Source: ACCC LNG netback series data (public version) as at 1 May 2021.

## Western Australia domestic gas market Well supplied in the near-term, uncertainty increasing from mid-2020s





#### Potential gas supply (existing) Waitsia Gorgon (tranche 2) West Erregulla Scarborough

Source: AEMO 2020: WA Gas Statement of Opportunities (December 2020)

Note: (1) AEMOs potential gas supply does not project how much gas will be produced, but how much could be produced if there was demand at the forecast price.

(2) AEMOs base gas supply profile assumes the following potential supply sources Gorgon (2021), West Erregulla (2022), Scarborough (2027), and Waitsia (2029) at a reduced capacity

### **Domestic market expected to be well supplied until mid-2020s**

- Existing supply expected to peak in 2022, in line with reserves depletion
- Uncertainty surrounding timing of new supply from large prospective LNG projects (with associated domgas commitments) and remaining 2P Reserves of existing domgas projects
- Spot domestic gas prices continue to strengthen to levels last seen in 2016, following lows in 2020<sup>2</sup>
- Gas demand forecast to grow at a CAGR of 0.7% to 20301, supported by growth in the mining and minerals processing sectors

### Waitsia and Beharra Springs important for keeping WA supplied

- Xyris (Waitsia Stage 1A) and Beharra Springs currently delivers and will continue to supply up to ~40 TJ per day to the domestic market
- Construction of new ~250 TJ per day Waitsia Stage 2 gas plant, with 7.5 MT (gross) (3.75 MT net to BPT) approved for LNG export until the end of 2028
- Remaining ~50% of Waitsia 2P reserves available to supply the domestic market from 2029
- Continue to assess gas processing capacity expansion opportunities at Beharra Springs

### Waitsia Stage 2 well placed to supply the domestic gas or LNG market with up to ~250 TJ/day from 2029

<sup>1</sup>Source: AEMO 2020 Western Australia Gas Statement of Opportunities (p.3). <sup>2</sup>Source: Gas Trading, April 2021 Historical Prices and Volume

# Our Assets

beach

### Waitsia LNG and domestic gas Material production growth committed from H2 2023



### Detailed design engineering to support procurement activities progressing to plan during Q4 FY21

#### **NWS** access

- Executed agreements to process
   Waitsia gas into LNG at the NWS facilities
- Waitsia Joint Venture one of first third parties to execute a processing agreement with the NWS Project participants
- Processing up to ~1.5 MTPA (gross) (~0.75 MTPA net to Beach) of LNG over five years

#### **Pipeline access**

- Executed transportation agreements with AGIG to transport Waitsia gas via the DBNGP
- ~280 TJ per day pipeline connecting Waitsia field to DBNGP already in place

#### Approvals

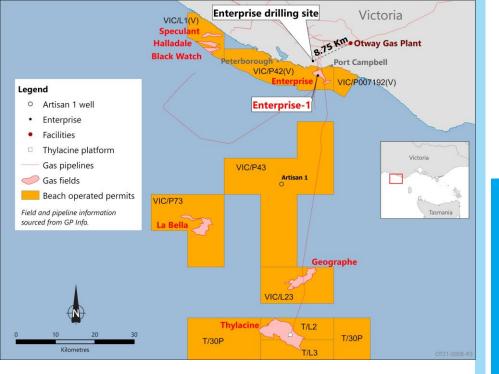
- Remaining Waitsia 2P reserves (~50%) available to supply the domestic market from 2029
- Delivering ~200 jobs for Western Australians during construction
- ~60% of project GHG emissions to be reduced or offset
- Environmental approval granted in February

#### **EPC contract**

- Clough awarded EPC contract to construct ~250 TJ per day gas processing facility
- Total gross capex to first production of \$700 – 800 million (\$350 – 400 million net to Beach) (wells, gathering and facilities) with IRR of ~20%
- Fully funded from existing cash flows and loan facilities

### Waitsia gas field to supply long life (>15 years) and high quality reserves to global LNG and west coast gas markets

LNG marketing to continue throughout 2021, with LNG sales expected to commence in H2 CY23 Strong interest for de-risked volumes from reliable NWS facilities, strategically located close to Asian demand centre





<sup>1</sup>Refer to ASX announcement #004/21 from 15 February 2021 "Enterprise Exploration Success Delivers Material 2P Reserves Booking". Evaluation date of reserves as at 15 February 2021.

<sup>2</sup>Results of the Enterprise well have previously been disclosed in ASX releases #038/20
 "Enterprise 1 Gas Discovery" and #002/21 "FY21 Second Quarter Activities Result"
 <sup>3</sup>Refer to ASX announcement #011/21 from 22 March 2021 "Artisan 1 Gas Discovery".

# **Otway Basin**

### **Targeting tripling utilisation by mid-FY23**



### 100% exploration success for Otway campaign

- Discovery of 21 MMboe net 2P reserves<sup>1</sup> (34 MMboe gross) at the Enterprise gas field, including 97 PJ of net sales gas (161 PJ gross)
- Flow tested at 63 MMscfd<sup>2</sup>
- Artisan 1 gas discovery intersecting gas column in primary and secondary targets<sup>3</sup>
- Enterprise and Artisan discoveries provide optionality for Otway Gas Project plateau extension
- Enterprise discovery de-risks additional nearshore prospectivity
- Drilling activities currently underway at Geographe 4
- Positive outcome relating to Otway gas price review arbitration

### **Forward activity**

- Targeting re-filling of the 205 TJ per day Otway Gas Plant by mid-FY23:
  - First gas from Geographe development wells expected in FY22
  - Anticipating first gas from Enterprise gas discovery and Thylacine development wells during FY23
- IRR of offshore campaign at >20% delivering >15 years asset life, with the inclusion of Enterprise success
- Assessing additional well intervention opportunities

#### Beach's targeted Otway Basin gas sales (% of volume)<sup>3</sup>

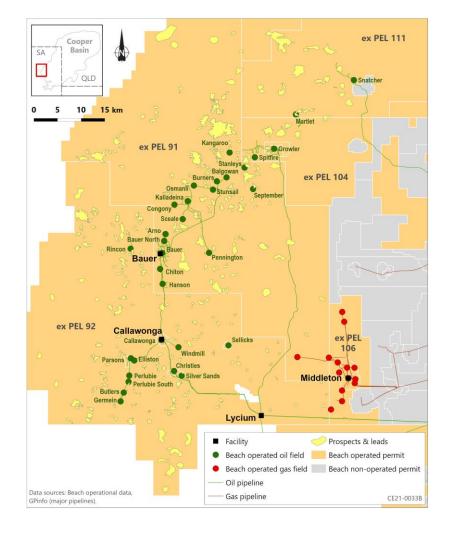
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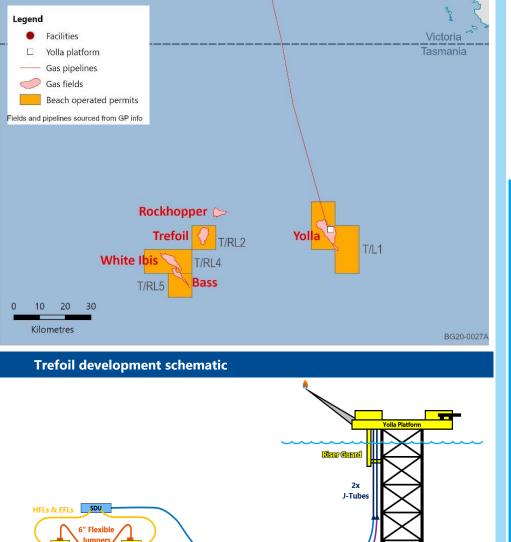
# Western Flank oil and gas

### Future focus on measured exploration and appraisal drilling of prospective acreage









38km Umbilica

<sup>1</sup>The Yolla field produced at ~26 TJ per day over H1 FY21, with Lang-Lang Gas Plant capacity of

12" Flexible

Riser

38km Reeled 12" Pipeline

### **Bass Basin**

Trefoil has potential to be a material development, progress towards FEED

# **Extending life of existing infrastructure**

- Yolla field production continuing
- Trefoil discovery ~37km west of the Yolla
- Possible Trefoil development to utilise Yolla infrastructure (current ullage of ~40 TJ per day<sup>1</sup>), with economics supported by:
  - o Extending the life of the Yolla field
  - Deferring abandonment activities of the Yolla platform
- Concept Select Phase completed

### **Forward activity**

- Commencing Trefoil FEED in Q4 FY21
- Targeting FID in H1 FY23
- Potential for first gas from H2 FY25, subject to necessary internal and external approvals
- Gas uncontracted and could be sold at East Coast gas market prices
- Net development capex of (\$450 550 million (\$500 600 million gross)
- Forecast IRR of >20%
- Life of asset ~15 years
- Yolla production upside from wireline intervention and reprocessed seismic highlights potential of undrilled segments

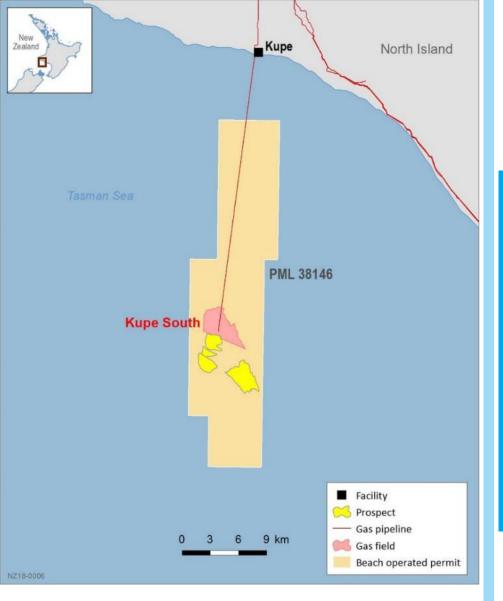
~70 TJ per day.

Futur

White Ibi

Tie In





# New Zealand – Kupe Gas Project

### Kupe gas compression on-track



### Progressing towards compression start up

- ~98% average facility reliability in FY21
- All equipment for compression installation in country and construction continues to progress
- Project 75% complete as at end Q3 FY21

### **Forward activity**

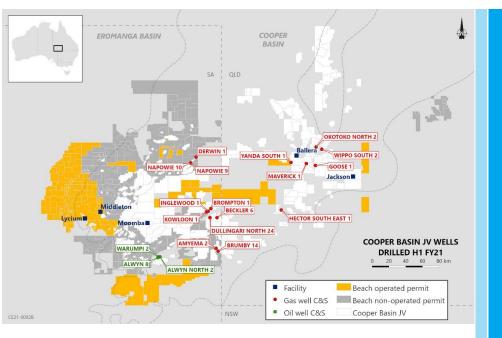
- Kupe compression project expected to commence operations in H1 FY22
- Compression expected to maintain plateau plant capacity of 77 TJ/d until FY24
- Compression project IRR > 50%
- Remaining asset life >12 years



Installation of the compressor at the Kupe gas facility

# Cooper Basin JV Focus on high value, low-risk opportunities





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# Production steady despite downtime and weather

- Completed 26 wells at ~90% success rate
  - 88% exploration and appraisal success
- Yanda South 1 and Ruby 3 step-out wells resulted in new 2P gas reserve additions
- Completed de-bottlenecking of Karmona triplex pipeline
  - Targeting increased gas production of ~6 mmscfd (gross) from SWQ
- Oil production impacted by weather events and maintenance activities through Q2 and Q3
- Gas production impacted by Big Lake to Moomba trunkline shut down during October

### **Forward activity**

- Beach plans to participate in 15 wells during Q4 FY21
- Planned maintenance at Port Bonython in H1 FY22 not currently expected to impact third-party oil sales, however likely to impact CBJV gas liquids
- Re-pricing of Lattice Cooper Basin GSA from 1 July 2021
- CBJV asset life of >20 years
- Executed agreement with Santos for Beach to undertake FEED activities for the Moomba CCS projects
  - CCS Project set to initially store 1.7 million tonnes of CO<sub>2</sub> per annum (gross)

### Macquarie Conference 2021 Key takeaways

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Recent Western Flank performance led to review and 18.4 MMboe net downgrade to 2P oil and gas reserves<sup>1,2,3</sup>

Lattice acquisition provided strategically diversified gas portfolio with exposure to four structurally short gas markets by mid-FY24

Stable earnings base supported by fixed-price gas business, delivering revenue of >\$440 million during FYTD<sup>4</sup>

Re-investing cash flow into long-life growth projects, increasing earnings of Beach's stable gas business

Balance sheet continues to support capital intensive FY22 and FY23 program, and delivery of our key gas growth projects<sup>5</sup>

Production growth expected from FY23 with Waitsia LNG and offshore Otway developments

<sup>1</sup>Refer to ASX announcement #013/21 from 30 April 2021: "Business Update". Evaluation date of reserves as at 30 June 2021. <sup>2</sup>Reduction to Western Flank oil field 2P reserve of 17.6 MMbbls, offset by increase of 4.2 MMbbls in 2P oil reserves following acquisition of Senex Energy's Cooper Basin assets. <sup>3</sup>Reduction to Western Flank gas field 2P reserve of 7.2 MMboe, offset by increase of 2.2 MMboe in 2P gas reserves following acquisition of Senex Energy's Cooper Basin assets. <sup>4</sup>As at 31 March 2021

<sup>s</sup>Growth projects include Waitsia Gas Project Stage 2, offshore Victorian development drilling campaign, development of the Enterprise gas discovery and potential Trefoil development (remains uncommitted).

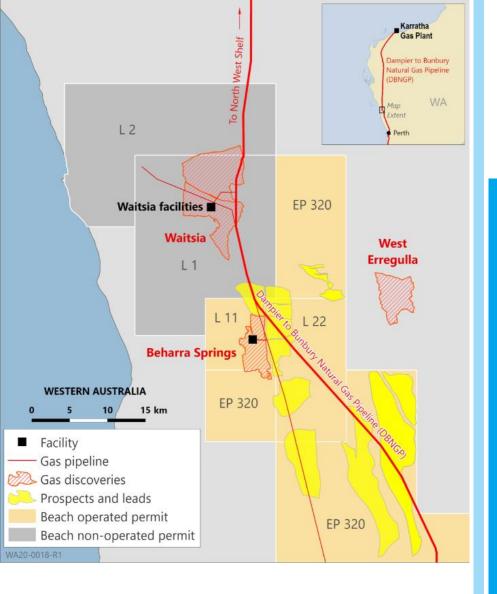
Q&A



# Appendices







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## Perth Basin

### **Ramp-up of Xyris and Beharra Springs production**



# **Completion of plant works and modifications**

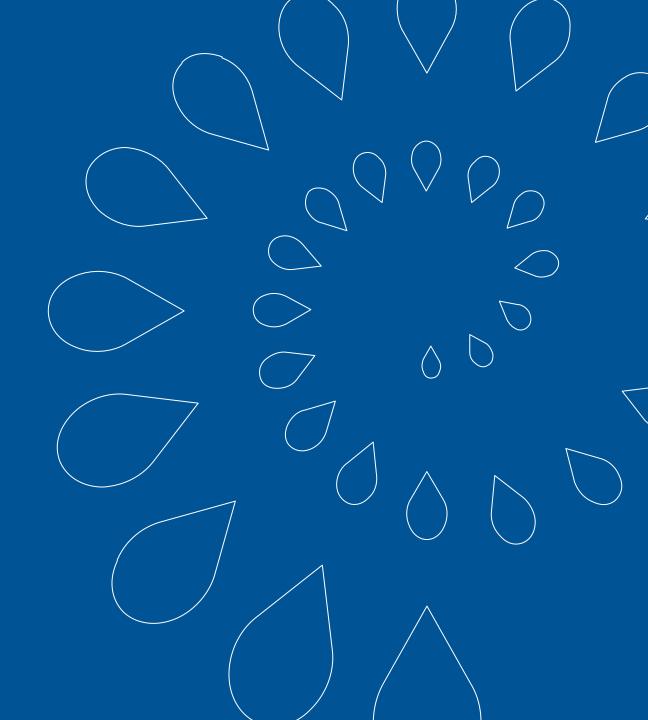
- Safely completed Waitsia Stage 1A expansion, increasing Xyris facility to ~20 TJ per day
  - Connection to Dampier to Bunbury Natural Gas
     Pipeline sized for ~280 TJ per day
- Successful Xyris facility performance trials and debottlenecking, supporting sustained production rates > 25 TJ per day
- Beharra Springs Deep 1 well connection completed and online April 2021
  - Producing at ~18 TJ per day

### **Forward activity**

- Waitsia Stage 2 development detailed design engineering to support procurement activities in Q4 FY21
- Site construction planned to commence during H1 FY22
- Undertake further geological and geophysical studies to support well locations for further exploration and appraisal

# Thank You





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