



# BLACKMOUNTAIN

ENERGY

## **Investor Update** **Project Overview**

27 MAY 2022

# DISCLAIMER

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This presentation, and oral statements made in connection with this presentation, contain forward-looking statements. Forward-looking statements express views of the Company regarding future plans and expectations. They include statements that include words such as “may,” “could,” “would,” “should,” “believe,” “expect,” “anticipate,” “plan,” “estimate,” “target,” “project,” “plan,” “intend” and similar words or expressions.

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The information in this Overview is not a recommendation to subscribe for securities in the Company and does not constitute financial advice. Any person who intends to subscribe for securities must conduct their own investigations, assessment and analysis of the Company and its operations and prospects and must base their investment decision solely on those investigations and that assessment and analysis. Prospective investors should consult their own legal, accounting and financial advisers about the matters contained in this Overview (including the likelihood of matters about which forward-looking statements are made occurring) and an investment in the Company.

This announcement has been approved for release by the Board of Black Mountain Energy Ltd.

## **Prospective Resources Cautionary Statement**

The estimated quantities of petroleum that may potentially be recovered by the application of future development projects relate to undiscovered accumulations. These estimates have both an associated risk of discovery and a risk of development. Further appraisal and evaluation is required to determine the existence of a significant quantity of potentially moveable hydrocarbons. See Slide 5.

## **Prospective Resources Reporting Notes**

- (i) The prospective resources information in this document is effective as of the Replacement Prospectus dated 29 October 2021 (Listing Rule (LR) 5.25.1).
- (ii) The prospective resources information in this document has been estimated and is classified in accordance with SPE PRMS (Society of Petroleum Engineers Petroleum Resources Management System) (LR 5.25.2).
- (iii) The prospective resources information in this document is reported according to the Company's economic interest in each of the resources and net of royalties (LR 5.25.5).
- (iv) The prospective resources information in this document has been estimated and prepared using the probabilistic method (LR 5.25.6).
- (v) The prospective resources information in this document has been estimated using a 0.18233 standard barrels oil equivalent BOE conversion ratio for gas to oil; this conversion ratio is based on an energy equivalency conversion method and does not represent value equivalency (LR 5.25.7).
- (vi) The prospective resources information in this document has been estimated on the basis that products are sold on the spot market with delivery at the sales point on the production facilities (LR 5.26.5.)
- (vii) Prospective resources are reported on a best estimate basis (LR 5.28.1).
- (viii) For prospective resources, the estimated quantities of petroleum that may potentially be recovered by the application of a future development project(s) relate to undiscovered accumulations. These estimates have both an associated risk of discovery and a risk of development. Further exploration appraisal and evaluation is required to determine the existence of a significant quantity of potentially moveable hydrocarbons (LR 5.28.2)
- (ix) In respect to the prospective resources referred to in this statement, the Company's working interest in EP 371 is 100%.
- (x) The prospective resources and the methodology for their estimation is set out in the Replacement Prospectus dated 29 October 2021.
- (xi) The chance of discovery is considered high due to the nature of the petroleum system and the proximity of the Prospective Resources to the Contingent Resources already found in EP 371. (LR 5.35.3).
- (xii) Prospective resources are un-risked and have not been adjusted for an associated chance of discovery and a chance of development (LR 5.35.4).

Black Mountain Energy is creating a natural gas development project (**Project Valhalla**) with an **industry-leading ESG scorecard** and **net-zero carbon emissions**.



**Differentiated** capability to export gas from Western Australia, with multiple commerciality pathways, including LNG backfill, direct export, and gas upgrade opportunities; pipeline studies underway



**Attractive** cost of development and scalability compared to other undeveloped resources



**Supportive** local stakeholders and Traditional Owner groups who want to see the project succeed



**Strategic permanent advantage** in BME's proximity to Asian LNG offtakers for Australian Natural Gas



BME has **the right skillset** to commercialize Valhalla, creating a new major natural gas resource in Australia



Approval received from West Australian Government **“allowing the export of gas from the Valhalla gas field”**



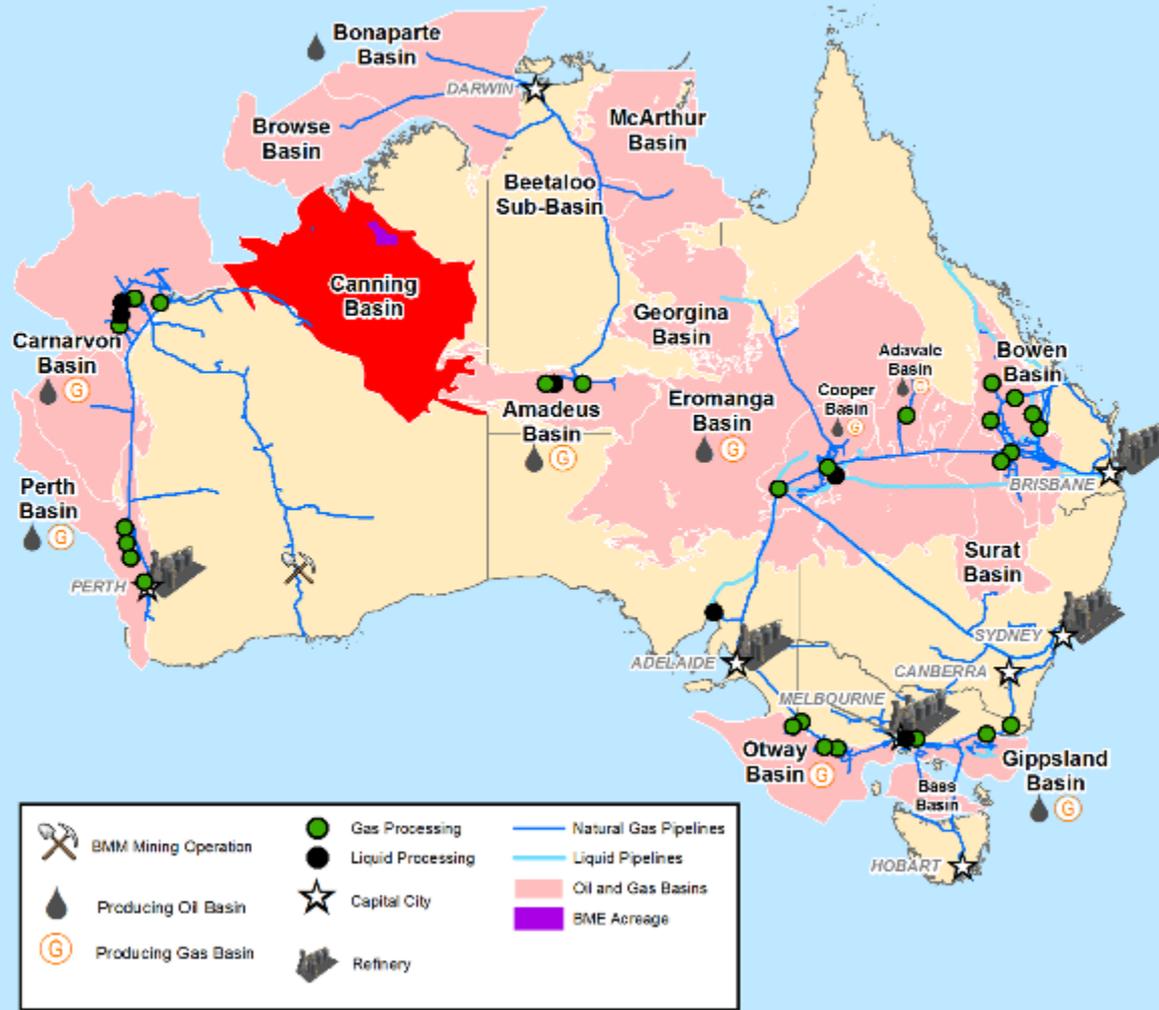
BME listed on the ASX in Dec 2021 at a **post-money valuation of \$51M; raise was oversubscribed**

# PROJECT VALHALLA OVERVIEW

<b>CLASSIFICATION</b>	Basin Centered Tight Gas
<b>STATUS</b>	Appraisal
<b>LOCATION</b>	Canning Basin, Western Australia
<b>PERMIT AREA</b>	~905,000 acres (or 3,662 km <sup>2</sup> )
<b><sup>1</sup>CONTINGENT RESOURCES (2C)</b>	Gas: 1.5 TCF Condensate: 29.6 MMbbls
<b><sup>1</sup>PROSPECTIVE RESOURCES (2U)</b>	Gas: 11.8 TCF Condensate: 165.6 MMbbls
<b>PREVIOUS DRILL PROGRAM SUMMARY</b>	<ul style="list-style-type: none"> <li>▪ 2015 Mitsubishi/Buru JV drilling program consisted of:             <ul style="list-style-type: none"> <li>• 3 Vertical Wells</li> <li>• 11 Frac Zones</li> <li>• Limited Stimulation Pumped</li> </ul> </li> <li>▪ All frac zones flowed gas             <ul style="list-style-type: none"> <li>• Gas: 85% methane / 5% ethane / low inerts</li> <li>• Condensates: 55 deg API</li> </ul> </li> <li>▪ Overpressures confirmed at 0.55-0.65 psi/ft</li> <li>▪ Existing 2D seismic across the position</li> </ul>

The estimated quantities of petroleum that may potentially be recovered the application of a future development project relate to undiscovered accumulations. These estimates have both an associated risk of discovery and a risk of development. Further exploration appraisal and evaluation is required to determine the existence of a significant quantity of potentially moveable hydrocarbons

## AUSTRALIAN OIL AND GAS FACILITIES



SOURCES: Competent Persons Report, Molyneux Advisors

<sup>1</sup>The contingent resources and prospective resources were first reported by the Company in its Prospectus dated 29 October 2021 and Supplementary Prospectus dated 29 October 2021. The Company confirms that it is not aware of any new information or data that materially affects the information included in this presentation and that all the material assumptions and technical parameters underpinning the estimates in the relevant market announcement continue to apply and have not materially changed

<sup>2</sup>Probabilistic and statistical methods use the 90% (P90) for the high confidence (low value case), 50% (P50) for the best estimate (moderate value case), and 10% (P10) for the low (high value case) estimate to represent the chances that the actual value will equal or exceed the estimate

# BLACK MOUNTAIN ENERGY COMPANY OVERVIEW



Black Mountain Energy was created by Black Mountain, a group of entrepreneurial natural resource operators that specialize in identifying and capturing high-growth opportunities in the global energy sector.

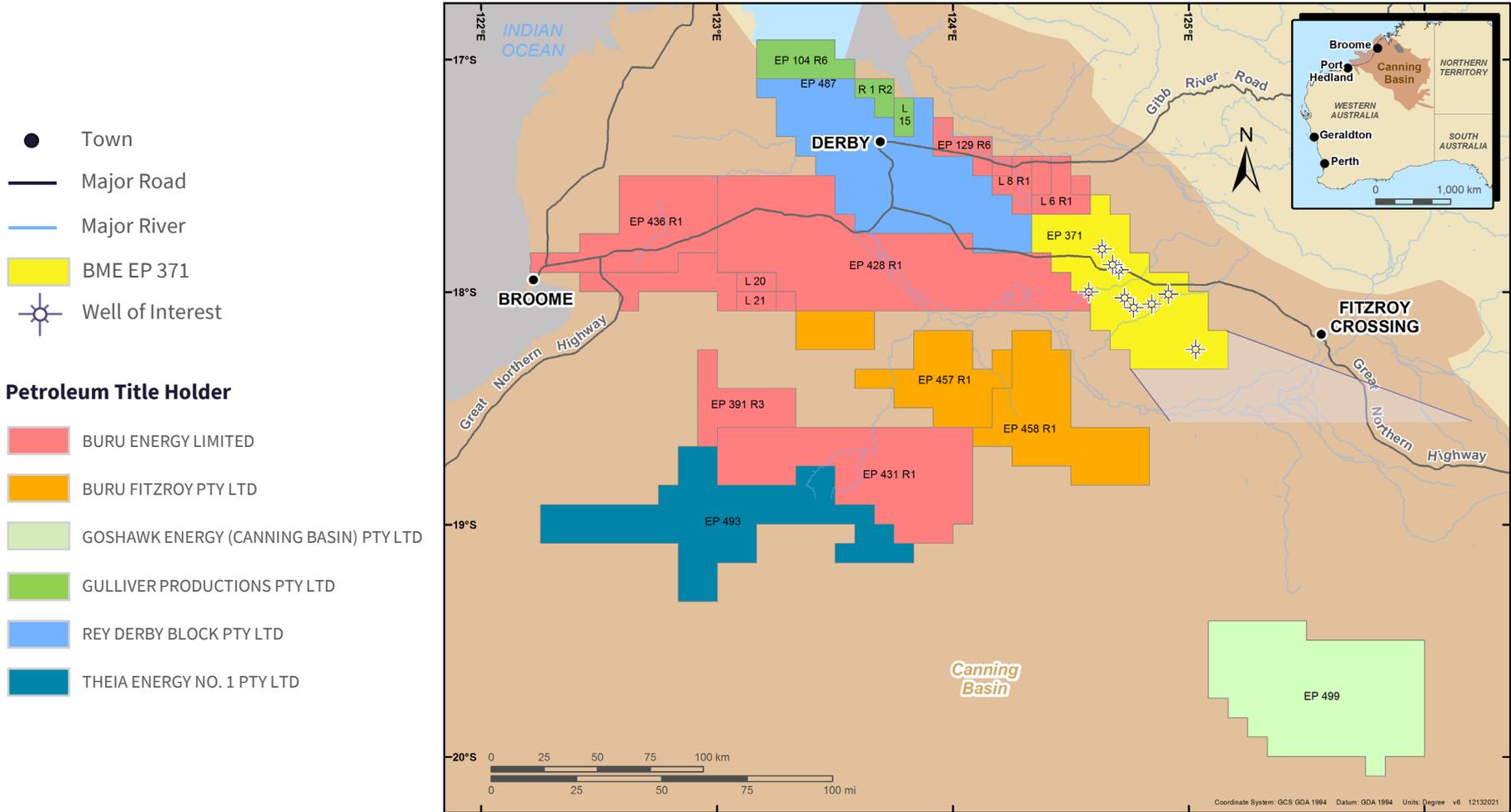
BME is developing an unconventional drilling approach for low-impact, low-risk, carbon neutral natural gas.

**Our goal is to forge a path for smarter natural gas extraction.**



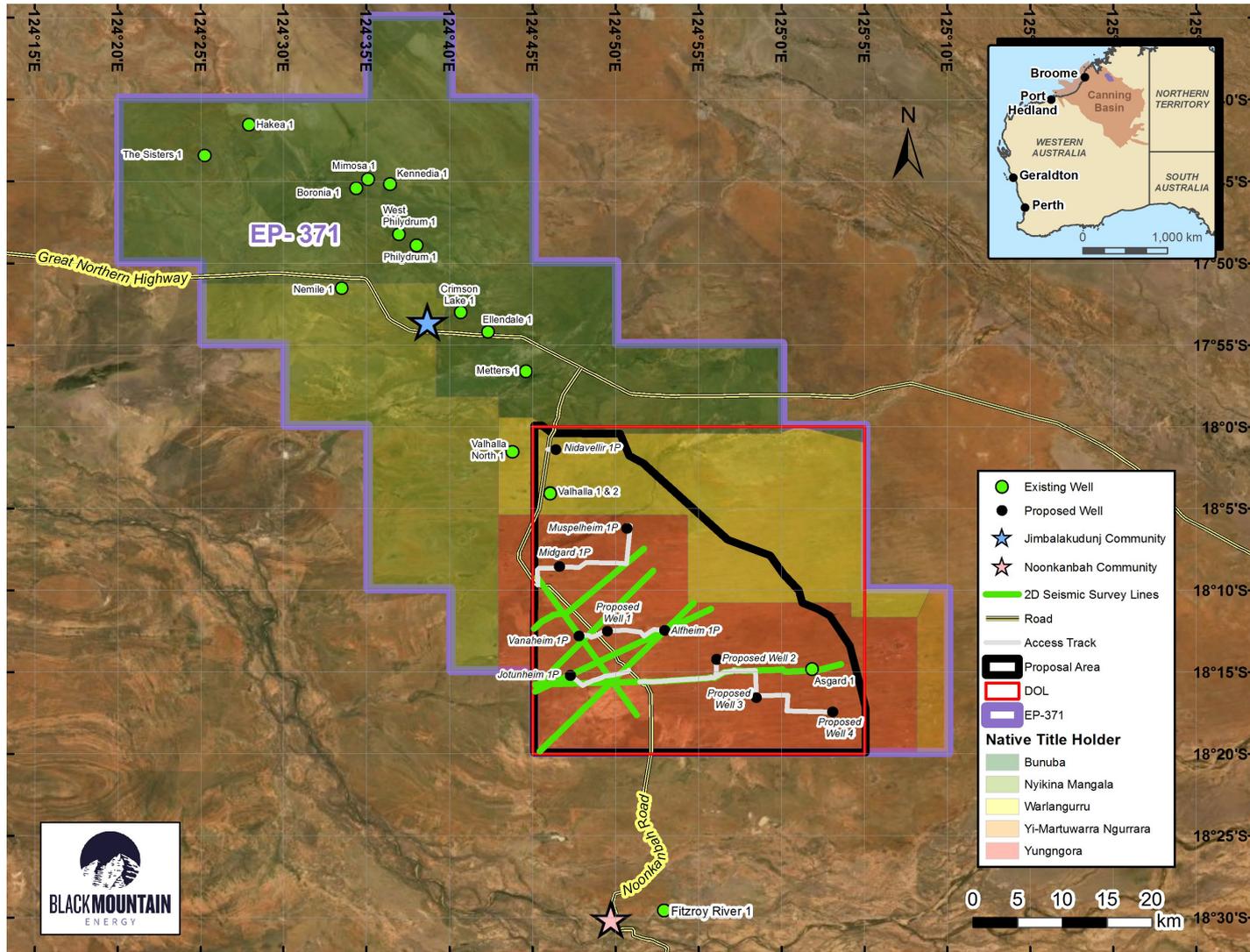
# SMART ENERGY FOR A SUSTAINABLE WORLD

# BLACK MOUNTAIN ENERGY CANNING BASIN OVERVIEW



\*Map shows E&Ps only

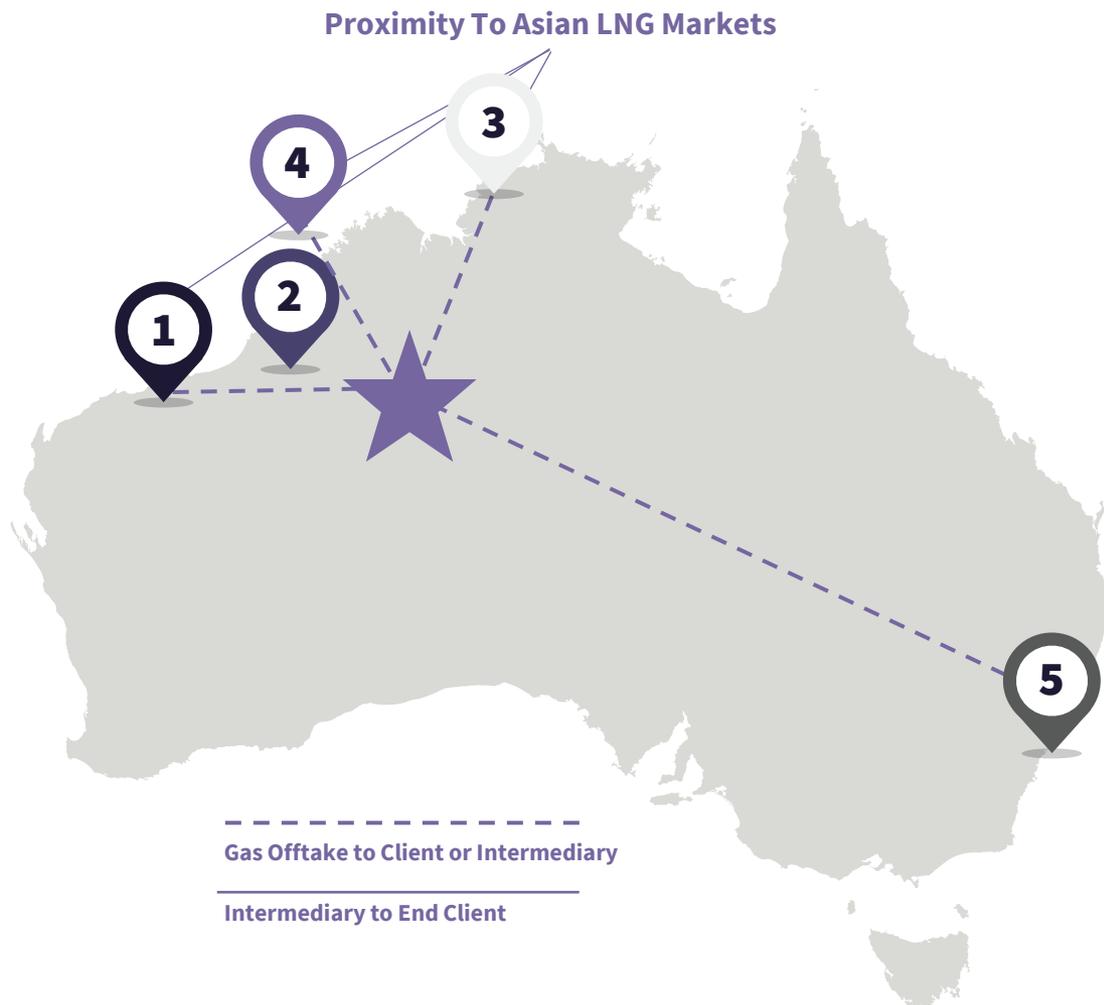
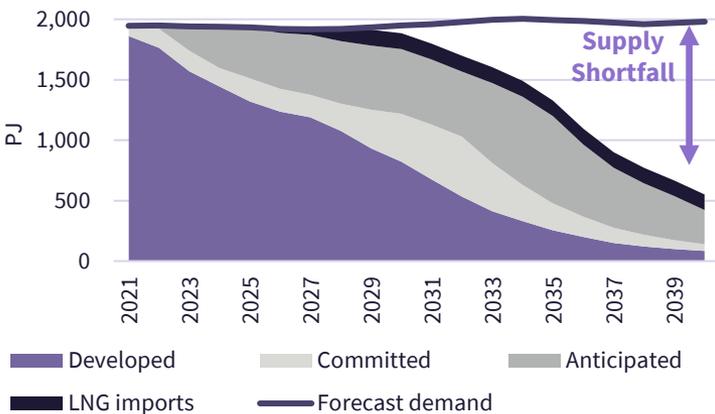
# LOCATION MAP EP 371 & COMMUNITIES



# POTENTIAL PATHWAYS TO COMMERCIALITY

- 1 Existing LNG Facilities and WA Gas Market**
- 2 Downstream Production Asset**  
(Methanol, Blue Hydrogen, or Other)
- 3 Existing LNG Facilities**
- 4 Greenfield LNG Opportunities**
- 5 Domestic East & SE Coast Gas Market**  
AEMO's 2021 Residential & Commercial gas price base case projection<sup>1</sup> has gas price staying between A\$10-14/Gj in Sydney & Melbourne out to year 2040<sup>2</sup>

Black Mountain Energy has acquired an **export exemption** from the WA Gov JTSI to **export natural gas from the Valhalla gas field**.



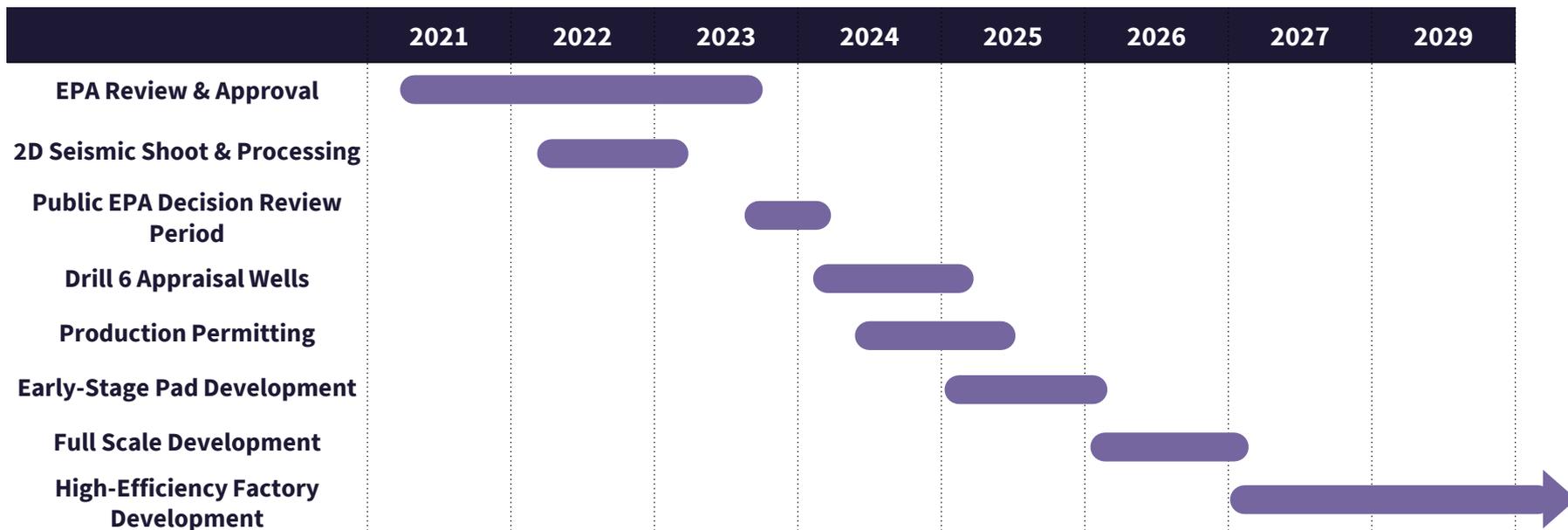
1. <https://www.aemo.com.au/energy-systems/gas/gas-forecasting-and-planning/gas-statement-of-opportunities-gsoo>  
 2. [https://aemo.com.au/-/media/files/gas/national\\_planning\\_and\\_forecasting/gsoo/2021/2021-gas-statement-of-opportunities.pdf?la=en](https://aemo.com.au/-/media/files/gas/national_planning_and_forecasting/gsoo/2021/2021-gas-statement-of-opportunities.pdf?la=en)

# PROJECT VALHALLA FIELD DEVELOPMENT PLAN



## FORWARD PLAN

PROJECT PHASE	TIME FRAME	# OF WELLS
Regulatory Approval	2020-2023	-
Seismic	2022	-
Appraisal	2024	3
Production Permitting	2024-2025	-
Early Pad Drilling	2025	Up to 17
Development	2026	Up to 30
Factory Mode	2027+	



# PERMITTING MILESTONE ROADMAP



**MAY 2021**

Retention Lease Application  
lodged with DMIRS



**SEPT 2021**

Domestic Gas  
Exemption received



**DEC 2021**

Environmental Surveys,  
Heritage Surveys, and  
Baseline Studies completed



**MARCH 2022**

DMIRS Approval to perform  
Seismic Survey received



**JAN 2022**

Environmental Review  
Document lodged with EPA



**Q1 2023**

EPA Approval to  
drill wells expected\*



**2024**

First 3 appraisal wells  
anticipated\*



**2025**

Additional 17 wells  
anticipated\*

\*Dependent on roll out of HFS Regulations

# PROJECT VALHALLA

## SOCIAL RESPONSIBILITY



Black Mountain has maintained long relationships with Traditional Owner groups. The Noonkanbah community are **well informed, engaged, and strongly supportive** of the Valhalla project.



**22**

Letters of Support  
from Traditional  
Owners



**3,200+**

Potential Direct and  
Indirect Jobs from  
Valhalla



**60%**

Proportion of the  
Board that is female

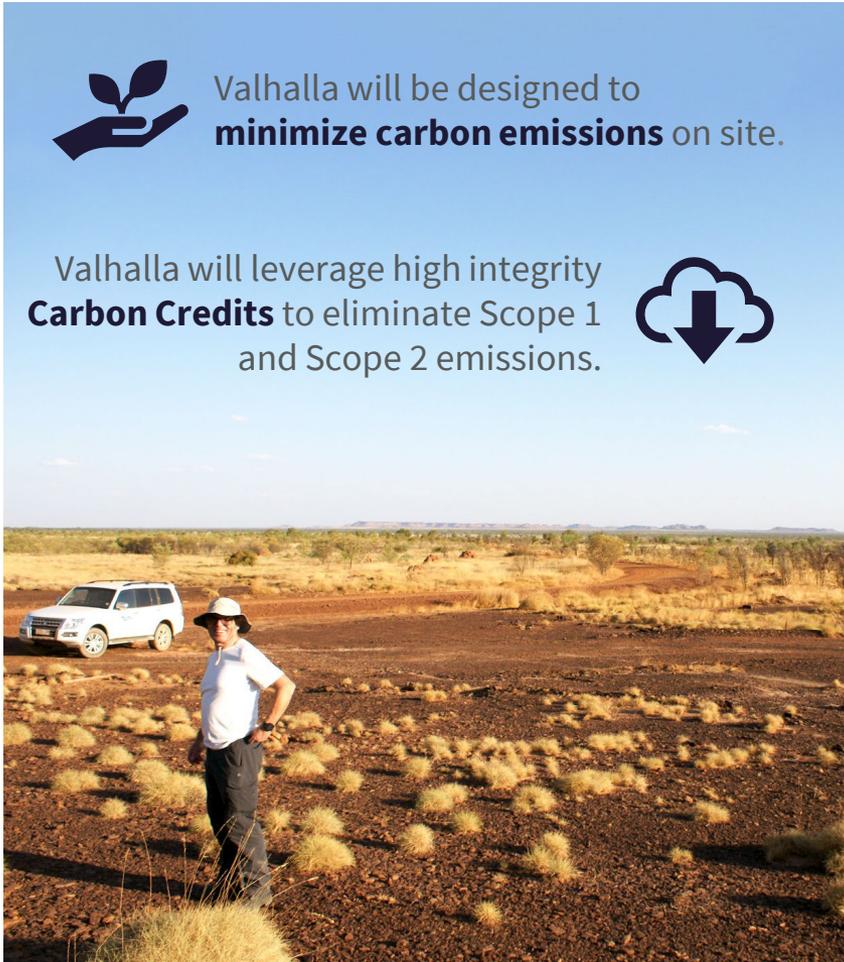


**50%**

Proportion of the  
Management Team  
that is diverse

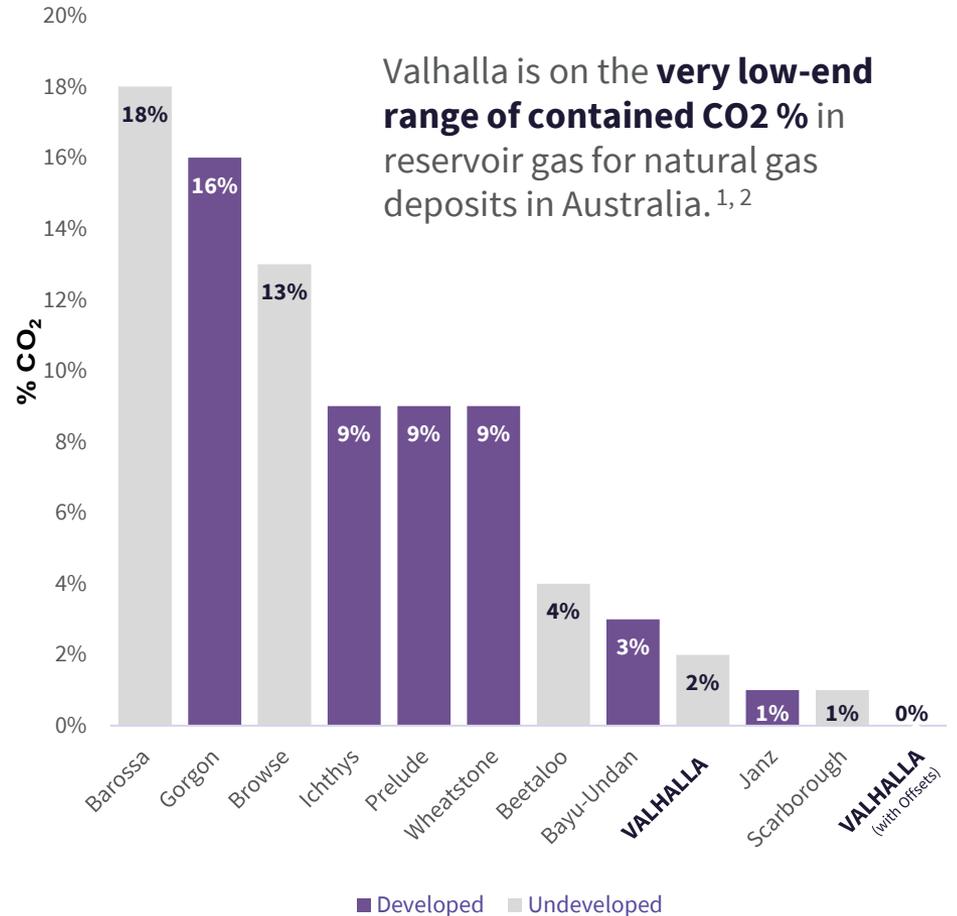


Black Mountain is focused on a ‘**zero carbon emission natural gas**’ as transition fuel to a net-zero power future for Australia.



 Valhalla will be designed to **minimize carbon emissions** on site.

Valhalla will leverage high integrity **Carbon Credits** to eliminate Scope 1 and Scope 2 emissions. 



1. [https://ieefa.org/wp-content/uploads/2020/04/Australias-LNG-Industry-Growth-and-Emission-Standards-Decline\\_April-2020.pdf](https://ieefa.org/wp-content/uploads/2020/04/Australias-LNG-Industry-Growth-and-Emission-Standards-Decline_April-2020.pdf)

2. Chetwode, Sharmini, Ph.D., Bingham, Derek, Tylenda, Evan, and Vigna, Michele Della, CFA. (June 23, 2020). *Carbon Offsets: Tools for the low carbon transition*. Goldman Sachs.

The project's well site locations will ensure cultural and environmentally sensitive areas are not disturbed



Valhalla's natural gas target is **deep below** any groundwater (~2,000-4,000m)



**No threatened**, flora or fauna species or ecological communities have been recorded or observed



The proposal area has a relatively small footprint at ~**1.1 square km**



Horizontal drilling will **reduce** surface area disturbance



Each well site is at least **20km or more** away from Fitzroy River and the Traditional Owner Communities



We plan to **'micro-site'** well sites away from any environmentally sensitive areas during the detailed planning phase





## RESIDENTS

Use of local contractors and service providers

Creation of 3,200+ direct and indirect local jobs

Significant socio-economic uplift for Traditional Owners



## ECONOMY

Dedicated drill rig(s) to support local industries

\$2.9B in royalties, GST, and payroll tax contributions directly to WA

Increase competency and supply chain for unconventional resources within WA



## COUNTRY

A globally significant “supergiant” resource that will put significant downward pressure on energy prices

Lead a wave of exploration and investment opportunities

Increase natural gas supply to add movement to the long-term energy transition



**Rhett Bennett**  
*Executive Chairman*

- Founded BM LLC in 2007
- Serial entrepreneur across natural resources sector: oil and gas, sand, water, disposal, metals, and minerals
- Honors & Awards: Oil & Gas Investor 40 under 40, EY Entrepreneur of the Year - Southwest Region, University of Georgia 40 under 40



**Marie Malaxos**  
*Non-Executive Director*

- Formerly COO of Buru Energy (2012 – 2013)
- Former Non-Executive Director for Pancontinental Energy NL (2017 – Present); voted into the board by shareholders after the SPA with Bombora Natural Energy Extensive experience in onshore petroleum operations and development in Australia



**Peter Cramer**  
*Non-Executive Director*

- Formerly the Exploration Manager at ConocoPhillips (2002 – 2018) where he led a team of 50+ professionals to deploy \$100MM+ into exploration projects globally
- Currently serves as an Independent Director for SAEExploration (2020 – Present), and Board Treasurer for Society of Exploration Geophysicists (2020 – Present)



**Sara Kelly**  
*Non-Executive Director*

- Currently a Partner at Edwards Mac Scovell (2016 – Present), Non-Executive Chair of Midas Minerals Ltd (2021 – Present)
- Significant transactional and industry experience having both worked in private practice, as a corporate advisor, and as in-house counsel



**Samantha Richardson**  
*Executive Director & Chief Operating Officer*

- 25 years experience working in the exploration and mining sectors; specializing in sales, marketing, logistics, compliance and community stakeholder engagement
- MBA from The Australian Institute of Management, Australian Institute of Company Directors graduate



**Ben Donovan**  
*Joint Company Secretary*

- Chartered secretary and member of the Governance Institute of Australia
- Served as Sr. Advisor on the ASX and managed listings of 100 companies in three years.
- Provides corporate advisory, IPO and consultancy services
- Currently Company Secretary of several ASX listed and public unlisted companies



**Alan Cooper**  
*Chief Financial Officer & Joint Company Secretary*

- Chartered accountant with 20 years of experience working in the oil and gas industry in both operated and non-operated settings
- Held Senior Finance roles in both Australia and UK including; Dana Petroleum plc, Central Petroleum Limited, KUFPEC Australia Pty Ltd and Transform Exploration Pty Ltd



**Ashley Zumwalt Forbes**  
*Alternate Director & Senior Advisor*

- B.S. Petroleum Engineering from University of Oklahoma (Summa Cum Laude); MBA from Harvard Business School
- 10 years diversified upstream experience leading shale exploration for ExxonMobil / XTO Energy in South America, Asia and Europe; focusing on D&C engineering / remote supply chains



**Murphy Markham**  
*Senior Advisor*

- Formerly the Managing Director and Group Head of JPMorgan Chase's Oil & Gas before joining EnCap Investments in July 2006 as Managing Director
- Bachelor of Business Administration in Finance from Texas Tech University and a Master of Business Administration in Accounting from the University of Houston



**Greg Denton**  
*Senior Advisor*

- B.A. (Economics, Political Studies) and B.Com (Finance) from the University of Otago (NZ); MBA (distinction) from Wake Forest University (North Carolina); Graduate of Australian Institute of Company Directors
- 20 years experience in energy markets, in roles covering trading, commercial, governance, and regulation roles



# BLACKMOUNTAIN

ENERGY

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**Madeline Howson**

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