

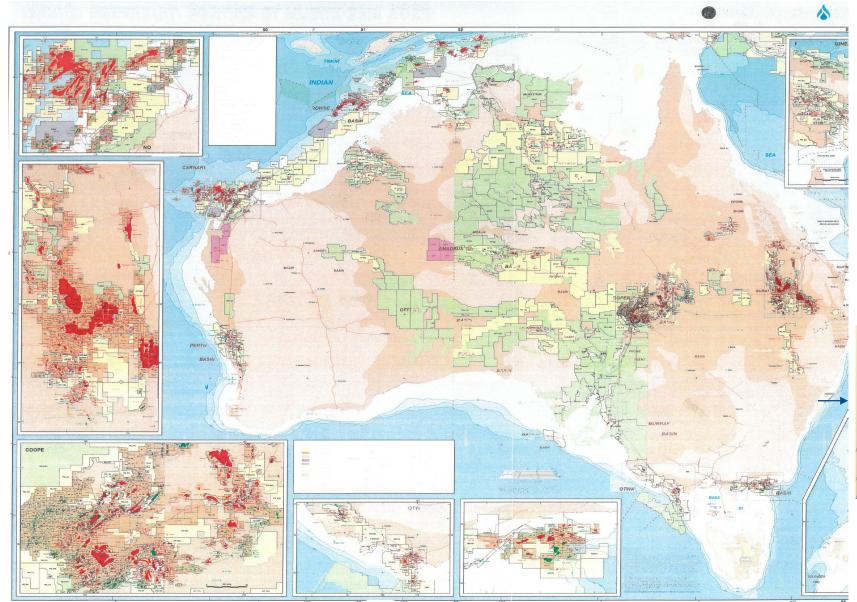




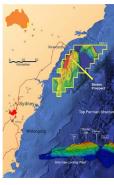




ADVENT ENERGY LIMITED GPINFO Petroleum Permits of Australia 2022



PEP11





Future Gas Strategy consultation paper 03 10 2023

The release by the government on 03 Oct 2023 of a discussion paper on its future gas strategy coincides with the release of new forecasts revealing the value of Australia's annual minerals and gas exports will plunge by more than \$100bn in two

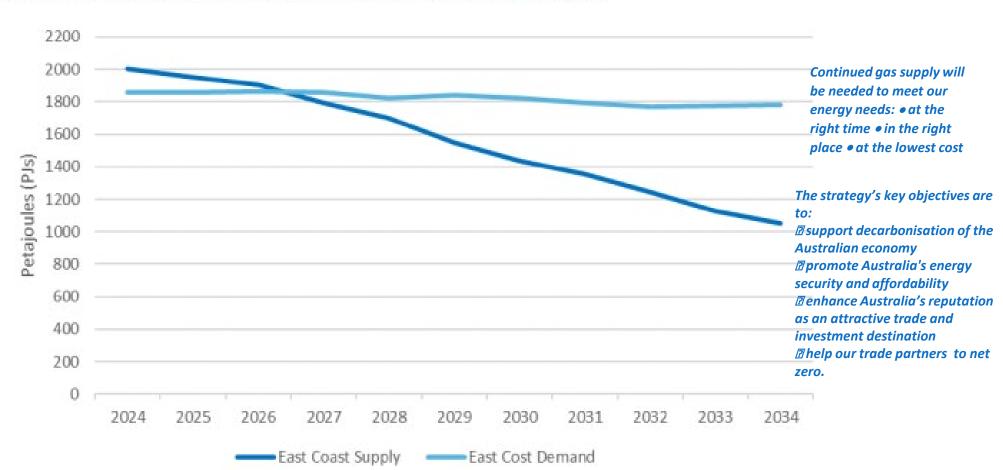


Resources Minister Madeleine King has warned that decreasing gas supply faster than demand will lead to "shortages, supply disruptions and high prices", while also "worsening poverty and inequality", launching a strong economic defence for the fuel source's role in underpinning the nation's clean energy transition.

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Future Gas Strategy consultation paper 03 10 2023 -GAS SUPPLY & DEMAND

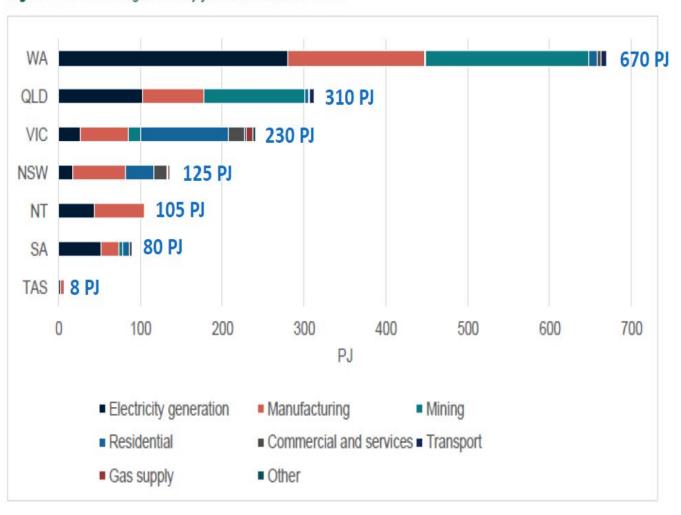
Figure 15: Gas supply is forecast to decline on the east coast of Australia 62





Future Gas Strategy consultation paper

Figure 2: Domestic gas use by jurisdiction 2020-20214



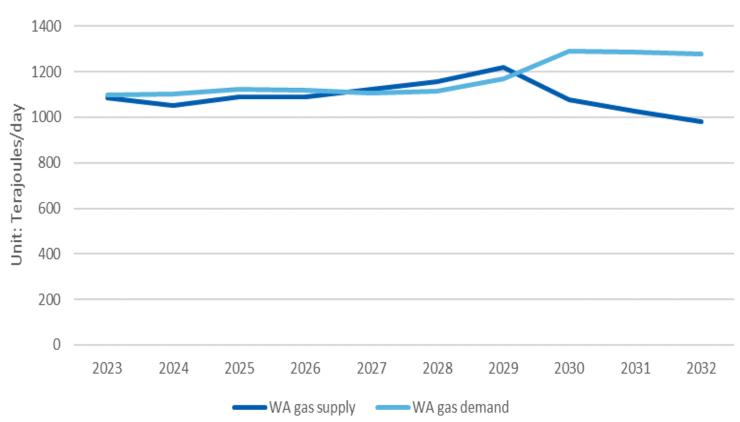
Vic & N.S.W, households & manufacturers consume the most gas..

W.A.& Qld, electricity generators, manufacturers and mining consume the most gas.



Future Gas Strategy consultation paper 03 10 2023 -GAS SUPPLY & DEMAND

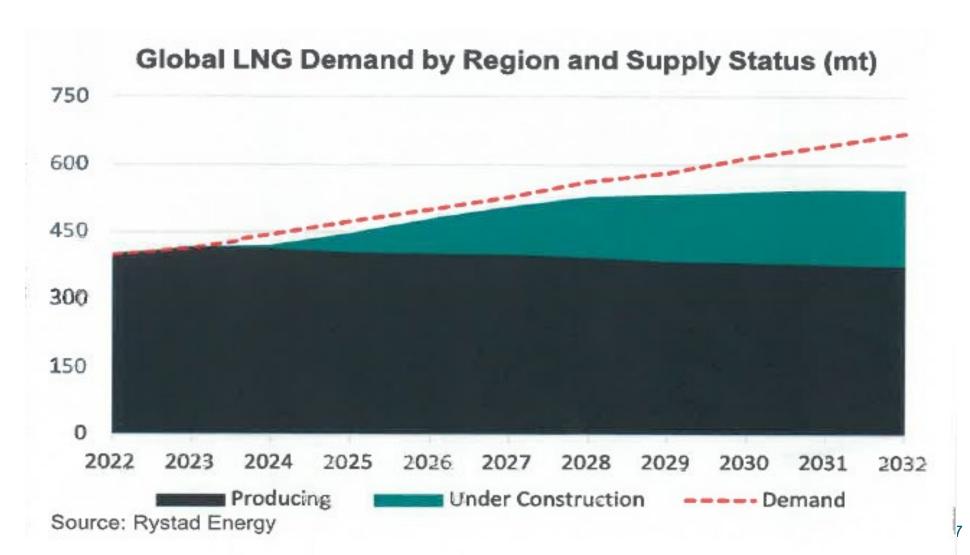
Gas supply and demand for Western Australia



is also forecast to decline on the west coast of Australia

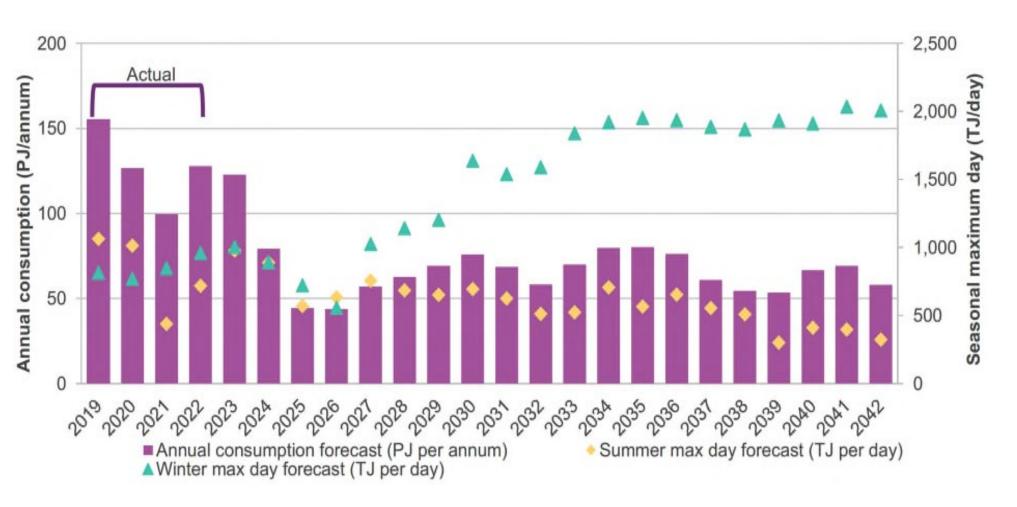


Rystad Energy Gas Market Cube 2023





Future Gas Strategy consultation paper 03 10 2023

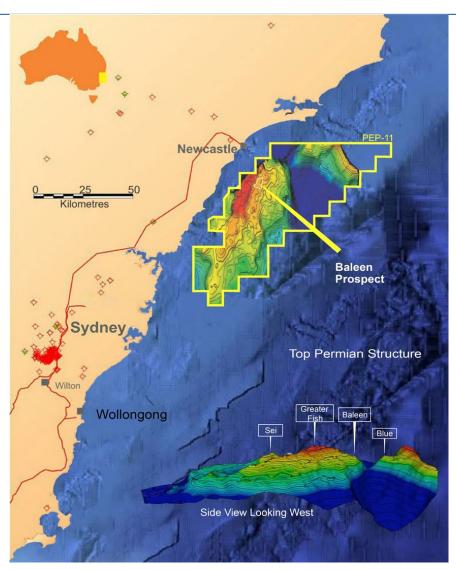




PEP11- Offshore Sydney Basin:

- The Sydney Basin is a proven hydrocarbon basin with excellent potential for further discovery of natural gas / significant multi-Tcf natural gas project
- PEP11 covers 4,649 km² on the doorstep of Sydney-Newcastle & extensive gas infrastructure (<50km).
- Analogues to major discoveries -the offshore Sydney Basin contains all the elements seen in other producing world class petroleum basins, including Prospective Resources of 5.7 Tcf (P50) in structural targets.
- Current application to NOPTA to enable drilling as next step –
- Significant interest in the project is driven by the gas market dynamics Shortfall forecast in gas supply east coast
- Two new gas fired power stations for NSW firming generation
- CCS potential (independently verified)
- Key attributes for Hydrogen role
- Significant potential employment driver

PEP11-85% Interest

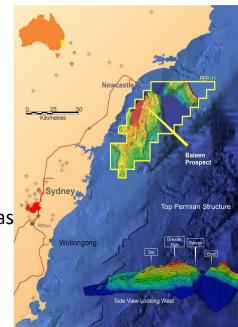


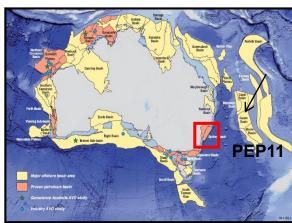


- The PEP 11 Gas and proposed CCS Project at Baleen (Seablue1 well) in the Offshore Sydney Basin has potential national significance.
- It addresses both forecast gas shortages and the objective of Net Zero Emissions.
 Advent has committed all gas from the project to Australia domestic supply
 Gas-Base load power ,Energy costs and employment
- In NSW, est. 300,000 jobs rely on gas supply. Gas supplies around 1.3 million households and 33,000 businesses.
- NSW's manufacturing sector, which is approximately 84% of the state's Industrial gas load,adds \$33 billion in industry value.
- Without addressing NSW's looming gas shortfall these could be at risk.(NSW Business Chamber)
- This prediction has now become a reality in the current global energy crisis
- Confidence in Australia's main electricity market has suffered its sharpest ever collapse as the crisis engulfing the east coast energy industry hits home for consumers.(ABC 30082022)

CCS

- Carbon Capture, Usage and Storage (CCUS) technology is one of the priority technologies in Australia's Technology Investment Roadmap.
- Identified by the IEA as the only large-scale mitigation option available that can deliver the additional CO₂ emissions reductions to meet climate goals in 2050.
- The PEP11 project is the closest potential carbon storage area to the major Australian carbon sources- 30% of the entire Australian CO2 output.







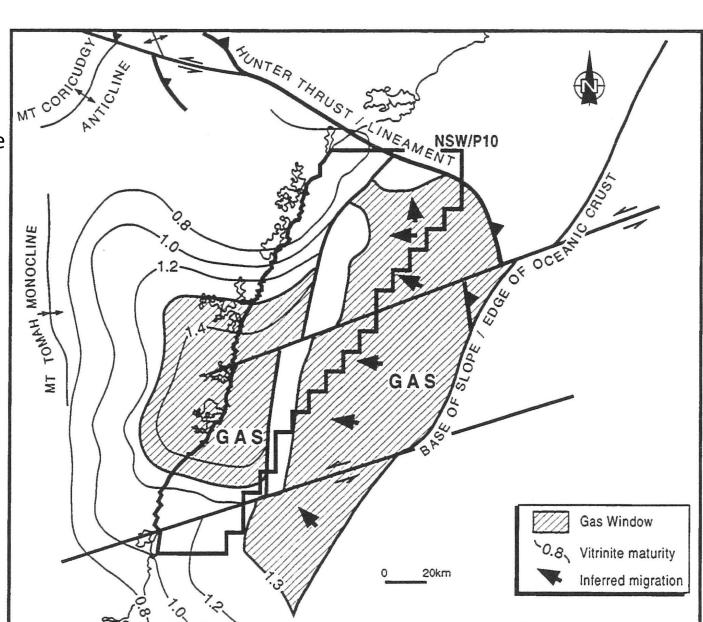
"The late Permian coal measures could provide a viable ,mature ,gas /condensate source along the length of the Offshore Uplift with simple migration pathways updip to the crest of the uplift...."

"This model results in all of the Late Permian Coal Measures being in the gas

Figure-Offshore Sydney Basin –Inferred Maturity and Migration Pathways

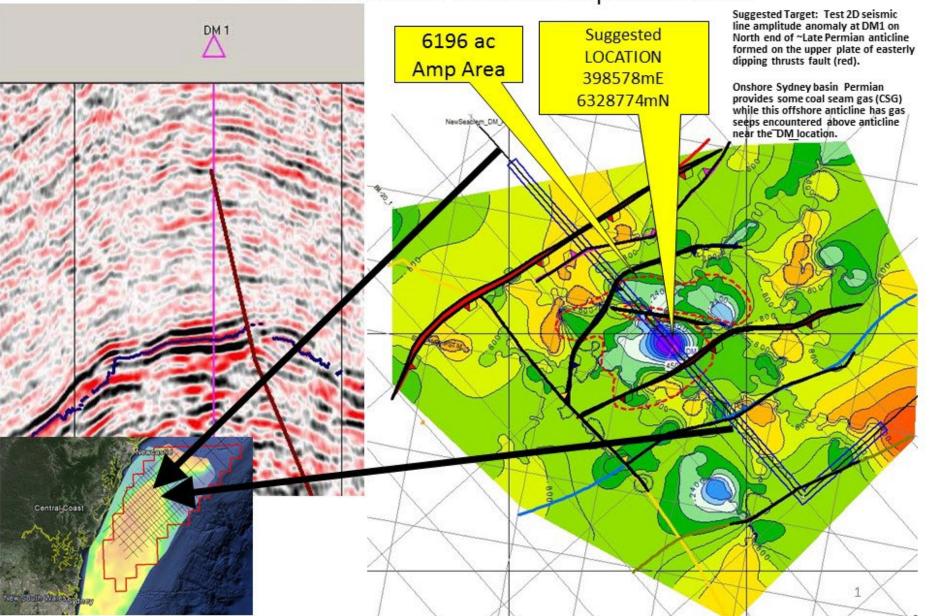
window"

Source "Evolution and Hydrocarbon Prospectivity of the Offshore Sydney Basin Bradley G New Petroleum Symposium 1993"



Near Top Permian / Base Triassic amplitude extraction

Estimate: 6196 acres of estimated amplitude closure



(25 sq km)*

CHT in a snapshot **TECHNOLOGIES** Clean Turquoise Carbon **Products** Hydrogen Black 8-12 tonnes per 3.3 tonnes per tonne tonne of H2 of CB produced CO2 savings(1) produced CNT, graphene, conductive, tensile, 99.9999% purity or lower Product Quality(2) pigment configure to needs depending on specification Genuine SMR competitor on price, Ability to produce highly valuable CB Competitive energy but with no emissions and products and lower value volume demand capabilities more flexible infrastructure needs products more efficiently than incumbent and implementation

Offtake sale of products, owner operator model

Building Commercial and Scaling Systems late 2023 / early 2024

Commercial Model

Stage of

Development

CHT Vs Competition



Solutions	Feedstock	Efficiency (1)	Water kg / kg H2 (2)	Electricity kwh / kg H2 (3)	Estimated production \$/kg (4)	CO2 Emissions (5)	Space	Infrastructure
CHT - Cracking	Hydrocarbons	90%	0	~8	>\$2.00	None	Low	Majority Existing
Electrolysis	H ₂ O + electricity	50–70%	9.1– 18.04	30+	\$7.7 – \$11.1	None	High	Mostly New
Carbon Capture Storage	Hydrocarbons	NR	NR	++++	\$++++	some	Low	New
Steam reforming	Hydrocarbons	70–85%	21.869	8+	\$2.00	12T per H2T	Medium	Existing

¹ http://www.fukuzawa.co/Hydrogen.html

Department of Chemical Engineering and Technology Indian Institute of Technology (BHU) Varanasi Varanasi-221005, Uttar Pradesh India

² Nuria Sánchez-Bastardo*, Robert Schlögl, and Holger Ruland*Ind. Eng. Chem. Res. 2021, 60, 32, 11855-11881https://pubs.acs.org/doi/10.1021/acs.iecr.1c01679

³ https://thebulletin.org/2022/01/whether-green-blue-or-turquoise-hydrogen-needs-to-be-clean-and-cheap/

⁽⁴⁾ https://www.tno.nl/en/technology-science/technologies/methane-pyrolysis/

⁽⁵⁾ https://pubs.acs.org/doi/10.1021/acs.iecr.1c01679

The BARM™ System collects EEG data from the brain and expresses this information in the form of 2 indexes measuring depth of anaesthesia and analgesia

Technical Partners

2022 -AIT/ENCIVIS: Vienna, Austria- EEG artifact removal and signal enhancements

2022- Lorgan Pty Ltd ,Sydney ,Australia— Al /data analysis/deep learning capacity being currently developed for BARM™ conjunctionally with Cortical Dynamics

Commercial Partners

Philips USA and global- plug and play agreement in place for BARM™ DAM Intellibridge OR Monitor

Global Luck – South Korean Distributor Innomed- Benelux Distributor







ADVANCED BRAIN MONITORING

Cortical Dynamics Limited is a Perth based Neurotechnology company developing a novel depth of anaesthesia monitor named BAARM™

BARM™ will assist anaesthesiologists to deliver accurate TIVA (intravenous) and Inhalation based anaesthesia helping reduce intra and post operative complications relating to overdosing or underdosing of anaesthetic and analgesic drugs that can lead to serious health and psychological conditions or even death.

BARM™ version 1 is FDA,CE,TGA and Korea MFDS Approved.







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