

GEORGINA  
ENERGY PLC

# Unlocking Australia's Helium & Hydrogen Potential

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Investor Presentation  
AUGUST 2025

(LON:GEX)

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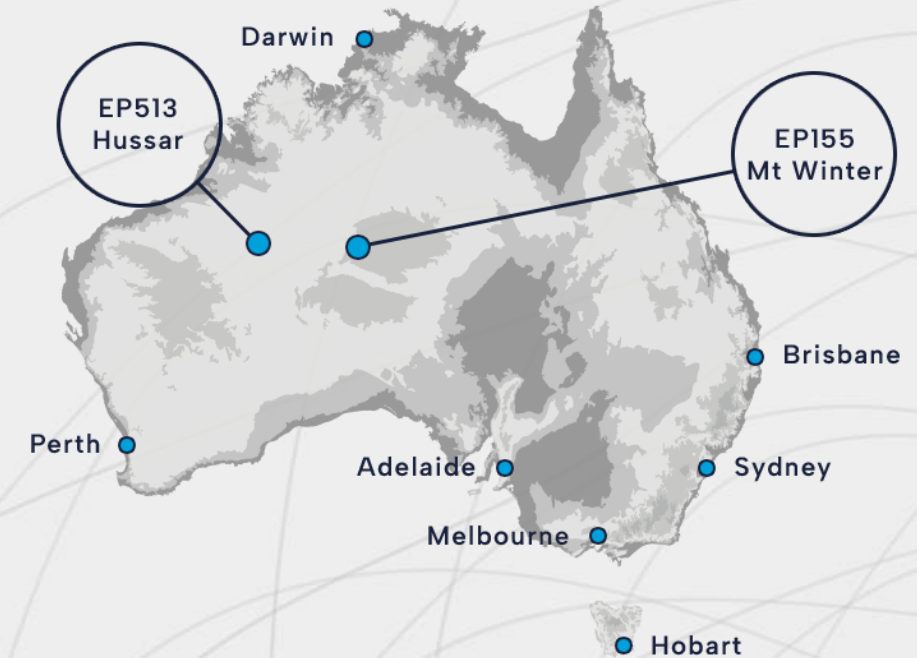


# OVERVIEW

An aerial photograph of a vast, flat landscape, likely a savanna or prairie, with sparse green vegetation and brownish soil. A winding road or path is visible in the lower right. The image is overlaid with a dark semi-transparent layer, and several white, parallel, diagonal lines cut across the right side of the frame. The word "OVERVIEW" is written in large, white, sans-serif capital letters on the left side.

# Large Scale Gas Re-Development Projects in Australia

- **Significant volumes:** EP513 (Hussar), the first to be drilled, has a potential in-situ value of US\$55 billion (Helium & Hydrogen) & US\$5.24 billion in-situ value of Natural Gas
- 3,951 Km<sup>2</sup> held over two projects; one in Western Australia and one in the Northern Territory
- Drilling Permit for EP513 and approval for EPA155 (Mt Winter) expected in 2025
- Potential additional well re-entry targets identified and under negotiation and subject to formal agreements.
- Nearby wells drilled in 1980s with 100% drill success rate with potential very high Helium concentrations



## LOW RISK

- Proven gas flows from original drilled wells
- Established infrastructure and supply chain
- Accessible market
- Government incentives



## GOOD TIMING

- Hydrogen demand is forecast to increase 3X by 2035
- Helium demand is outpacing supply



## LARGE SCALE

- Net attributable 2U prospective combined resources:
  - 303 BCFG Helium
  - 308 BCFG Hydrogen
  - 2.97 TCFG gaseous hydrocarbons



## ACTIVE MARKET

- Increasing and supportive interest in helium from broader energy market



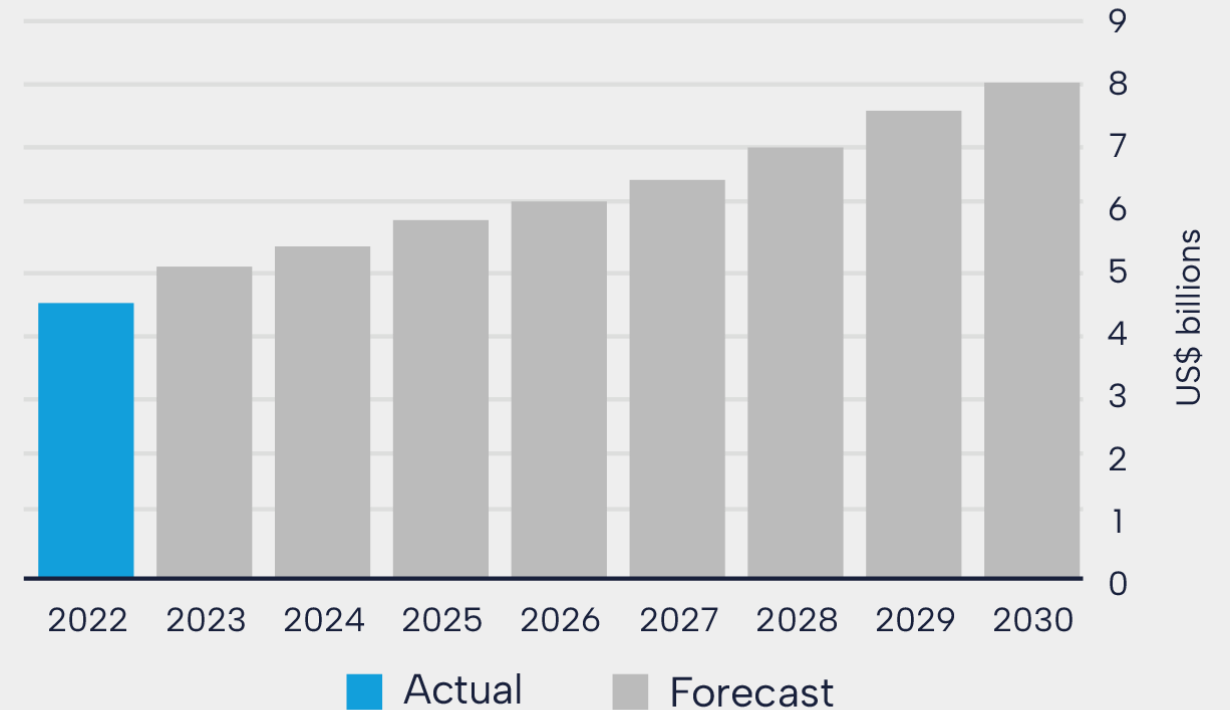
## RIGHT TEAM

- Highly experienced management team
- Team have material equity stake in the enlarged company

# GEORGINA'S OPPORTUNITY: Helium

- The demand for Helium is expected to rise largely from the growth of the semi conductor market
- There is a global short supply of helium and significant increases in demand, including space launch usage, has led to further price increases
- NASA signed a 5-year contract for 1.2Bcf helium supply at \$920/Mcf in 2022
- The US Bureau of Land Management held its last Crude Helium Auction in 2018 with no plans for another, in recent years prices exceed USD \$600 Mcf
- Lack of major new sources
- Manufacture of synthetic Helium not currently possible
- Independent Scoping Study completed and confirms viability

Estimated global helium market

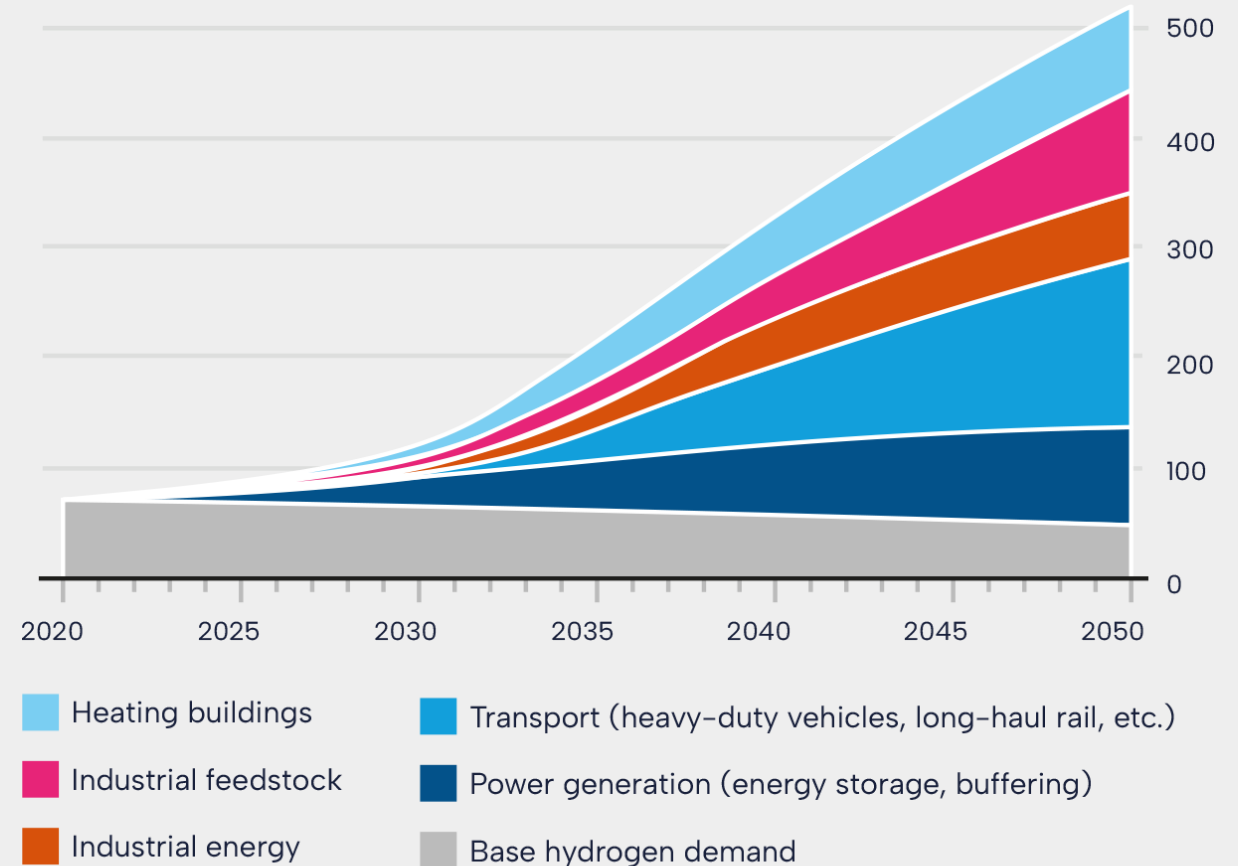


Source: The Business Research Company, Helium Global Market Report 2023  
Published January 2023



# GEORGINA'S OPPORTUNITY: Hydrogen

- Hydrogen is a key resource in the move towards decarbonization as countries across the globe look to reduce carbon output
- Most Hydrogen output historically has been a result of fossil fuels whereas now Hydrogen has become a green resource itself
- The National Gas Infrastructure Plan: Interim Report released in 2021, identifies the priority infrastructure developments required to alleviate forecast southern gas supply shortfalls in the near-term
- R&D on creating affordable Hydrogen batteries is closer than ever

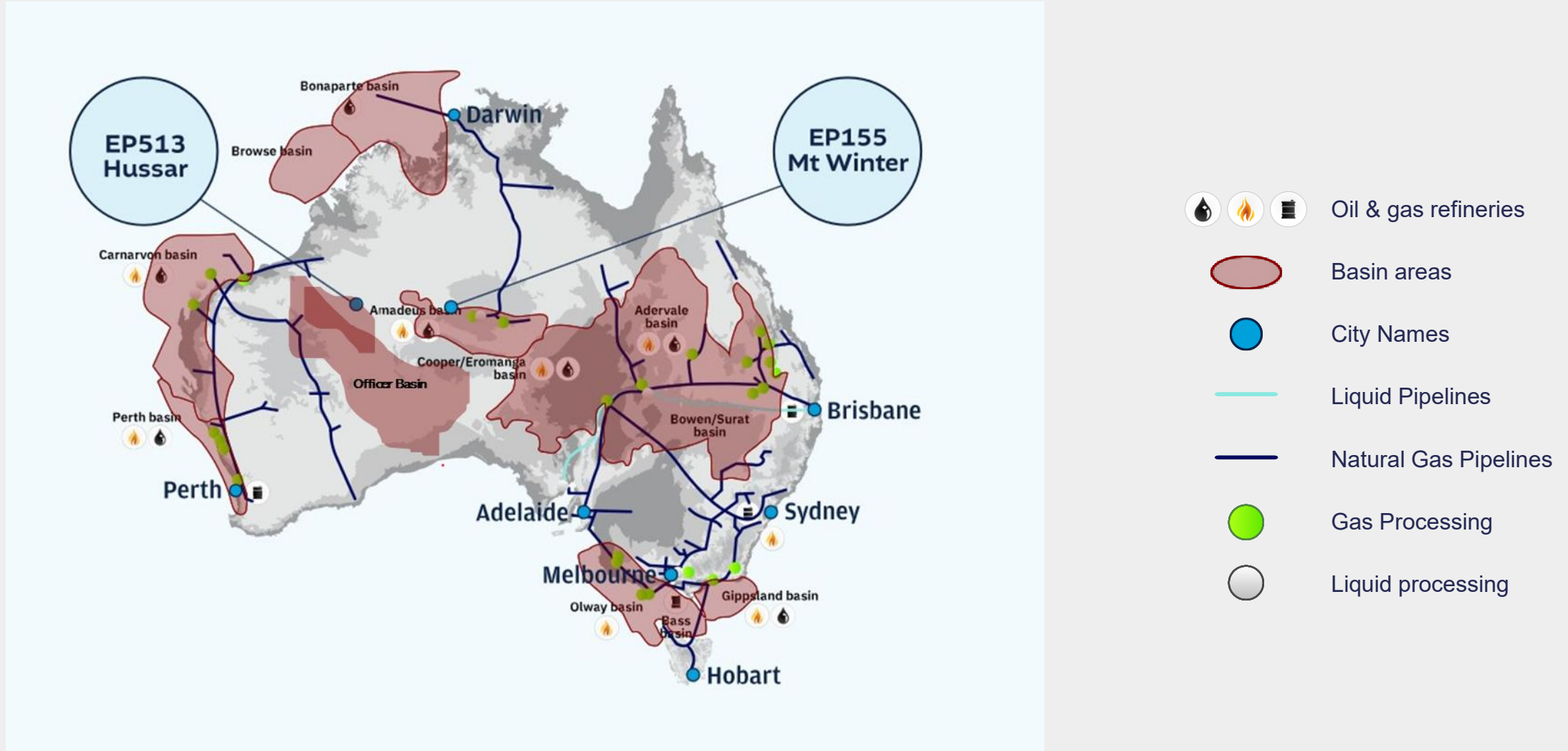


Source: Goldman Sachs Global Investment Research

# OPERATIONS

A photograph of two men standing next to a yellow utility vehicle in a desert landscape. The man on the left is wearing a black t-shirt with a logo, blue jeans, and a black cap with 'OAK Security' written on it. The man on the right is wearing a light-colored button-down shirt, dark pants, a white cap with 'OAK' written on it, and sunglasses. The vehicle is a yellow utility vehicle with 'NSR' written on the side. The background shows a desert landscape with red soil and sparse vegetation under a blue sky with some clouds. There are several white diagonal lines on the right side of the image.

# TAPPING INTO AUSTRALIA'S HIGH VALUE BASINS: Officer Basin & Amadeus Portions of the Centralian Superbasin



Source: the Company



# UNLOCKING RESOURCE POTENTIAL

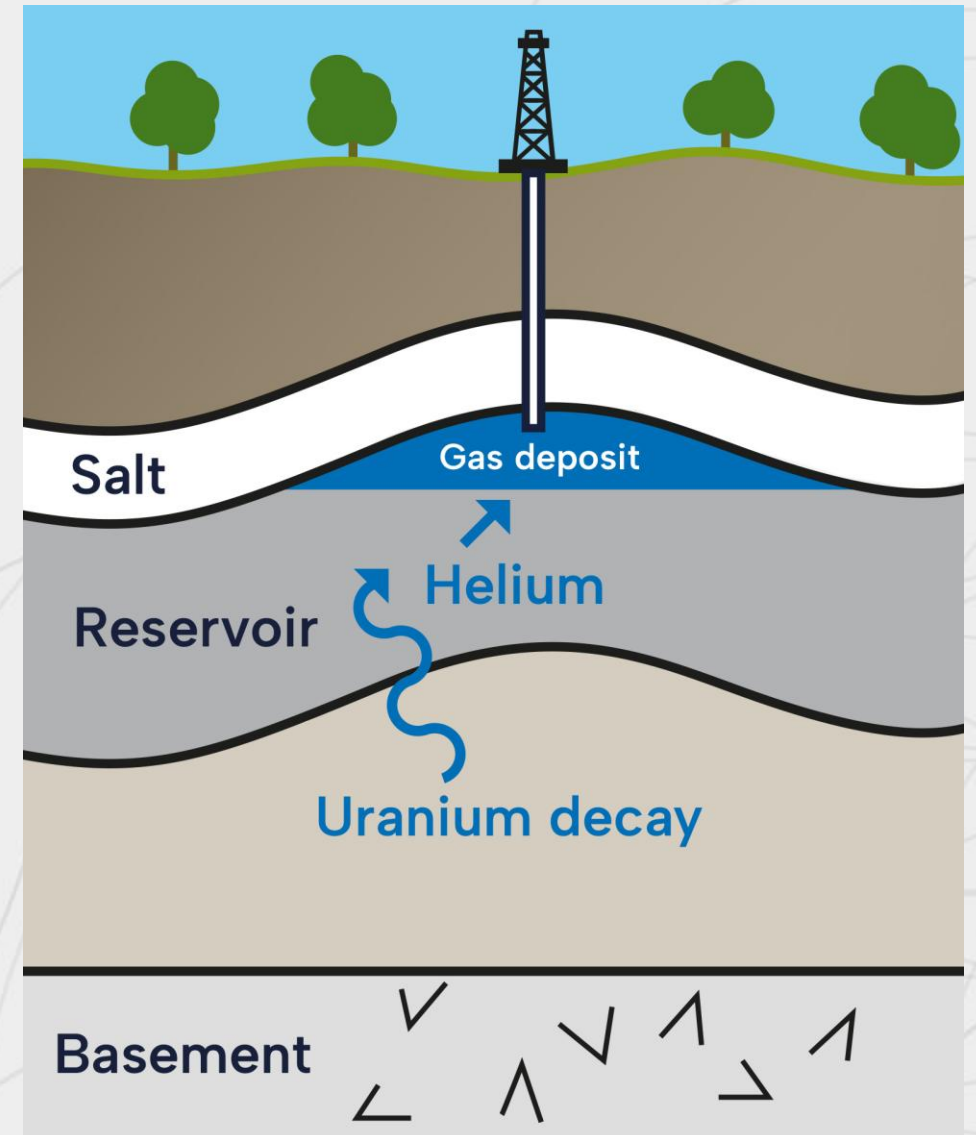
**323 BCFG  
Helium**

**335 BCFG  
Hydrogen**

**3.00 TCFG  
Natural Gas**

- The Company has evaluated the potential of Mt Winter (EPA155) and the Hussar (EP-513) prospects to contain the required elements to potentially yield significant Helium & Hydrogen accumulations
- Helium gas is produced by radioactive decay of Uranium (U) and Thorium (Th) in rocks and sediments, it is usually trapped in the subsurface under conditions that also trap Natural Gas
- Hydrogen gas can be produced by the mechanism of radiolysis (irradiation from radiogenic U and Th minerals) upon molecular water, H<sub>2</sub>O
- The CPR details the Prospective (recoverable) Resources in 1U, 2U and 3U categories in defined seismic closures which have been drilled almost to the prognosed top of the relevant Hydrogen, Helium and Natural Gas reservoir
- The re-entry for Hussar is to penetrate the subsalt Townsend formation and for Mt Winter the subsalt Heavitree formation reservoir which potentially hosts Helium, Hydrogen and Natural Gas. Permit approvals currently awaiting final permit for Hussar EP513.

\*CPR



# HUSSAR: One of the most potentially significant resource basins in APAC

Independent consultants confirmed that Hussar has the required elements to yield net attributable **2U Prospective Resources of 155 BCFG Helium & 173 BCFG Hydrogen** with a potential combined in-situ value of **US\$55 billion** (He US\$350/MCFG, H US\$2.65/kg)

Net attributable **2U Prospective (recoverable) Resources of 1.73 TCFG of Natural Gas** with potential in-situ value of **US\$5.24 billion**

- 100% working interest in EP513
- The area consists of 46 graticular blocks, (3,574 km<sup>2</sup>). Drilled in 1982 to a TD 2040m
- Permit for EP513 Well MGM plan approval received final permit to drill expected shortly develop the licence and focus on the hydrogen, helium & natural gas potential
- 3,574 km<sup>2</sup> airborne AEM -PTP survey (March 2022) showed significant gas anomalies
- Resource Upgrade completed along with Scoping study



EP-513 Hussar Site Operations March 2025



# MT WINTER: Re-Opening Identified Gas Fields

With seismically defined closure based on CPR 2U calculations of 3,400 acres, net attributable (recoverable) Prospective (75%) Resource volumes of Helium 127 BCFG, Hydrogen 117 BCFG and Natural Gas 0.944 TCFG with potential in-situ values of US\$38.51 billion, US\$0.62 billion and US\$2.72 billion

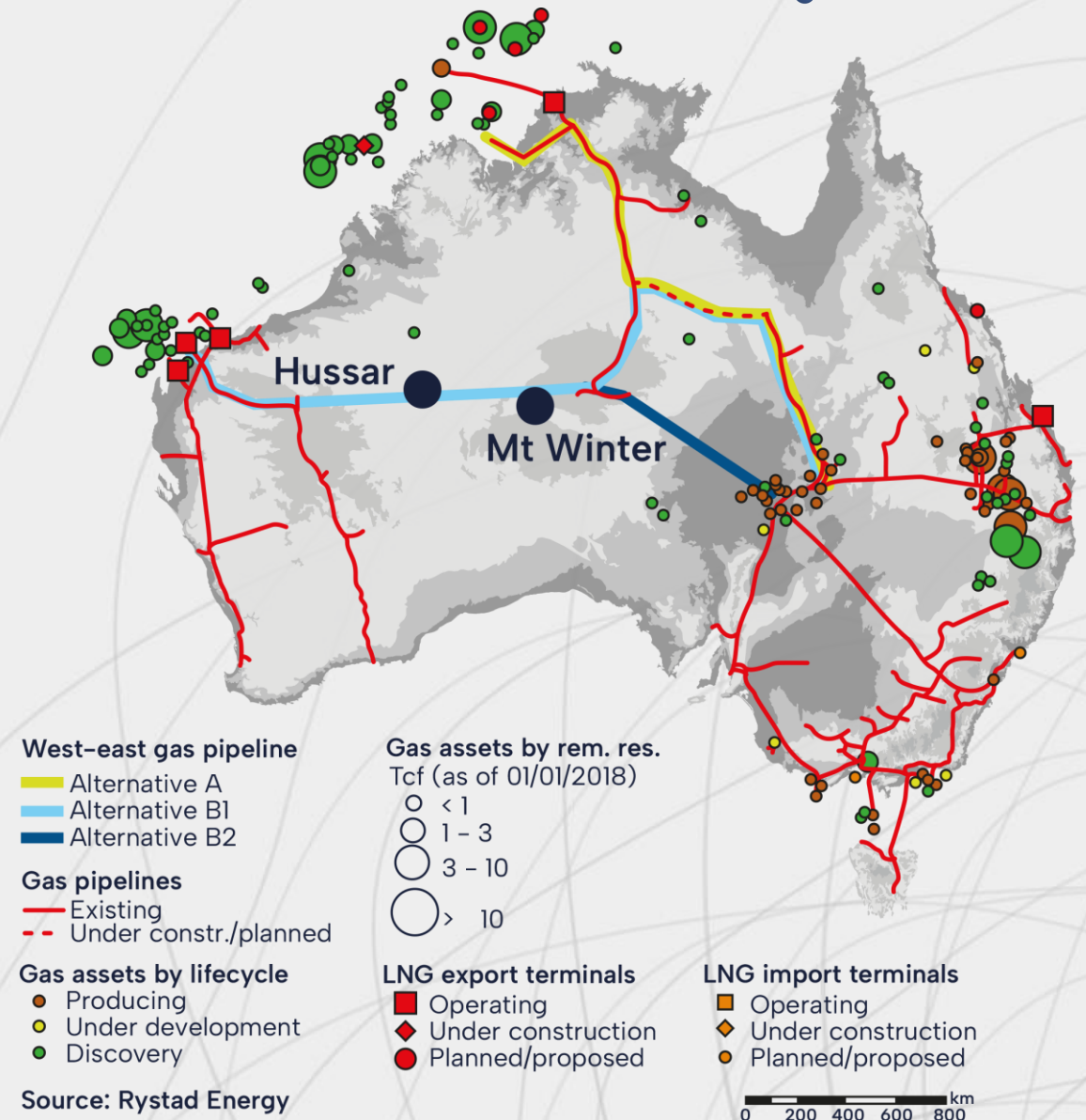
- Subject to completion Georgina Energy Plc, via its wholly owned subsidiary, will hold a 100% working interest Mt Winter EPA155 which will increase the Prospective Resource numbers.
- The Mt Winter-1 well was drilled in 1982 to a depth of 2,650m TD but did not penetrate the subsalt Heavitree Formation hydrogen, helium & natural gas reservoir target. All three previously drilled wells have penetrated the Heavitree and have encountered high concentrations of helium (9%) & hydrogen (11%)
- The program has been lodged to seek approval and re-enter and/or side track the existing well to develop the hydrogen, helium and natural gas as well as investigate two other targets.
- Reprocessed Seismic and Resource Upgrade completed in July 2025 resulting in 37.8% increase helium and hydrogen
- CLC Meeting successfully completed to seek approval for the granting of the application of EPA155 with the ALRA under negotiation to be completed shortly





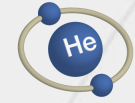
# IDEAL OPERATING LANDSCAPE

- Both sites were previously drilled – locations and road access remain useable
- Gas pipelines from the Amadeus to Port Darwin and Eastern markets
- Gas pipeline servicing East Coast
- Roads & rail to Darwin, roads to Western ports
- Darwin Helium refinery access by road (currently under maintenance)
- Domestic gas market under-supplied in the Eastern states due to large LNG exports
- Northern Territory Government investment incentives
- Government AU\$110 billion, 10-year infrastructure plan – with a proportion for gas



# PATHWAY TO DRILLING & PRODUCTION

- Applications for drilling approval, EIS2 survey, well design and Well Mgmt Plan and other clearances for revised area have been lodged. WMP Approval received.
- Processing additional seismic and recently completed AEM-PTP surveys, revised modeling and resource scale
- Re-enter & deepen EP513 Hussar (to TD 3,200m) for Helium, Hydrogen & Natural Gas
- CLC meeting completed for the approval of EPA155, currently negotiating ALRA Agreement and granting of the permit by the Minister
- Aztech Well Construction working on well design to implement, manage and co-ordinate well re-entry
- Completion of the Sale and Purchase agreement to acquire 100% working interest in EPA155
- Scoping Study Completed confirming viability and potential at Hussar
- Additional re-entry targets under negotiation
- Reprocessing Mt Winter Seismic completed and resource upgrade at Mt Winter completed.



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Containerised Helium Transportation

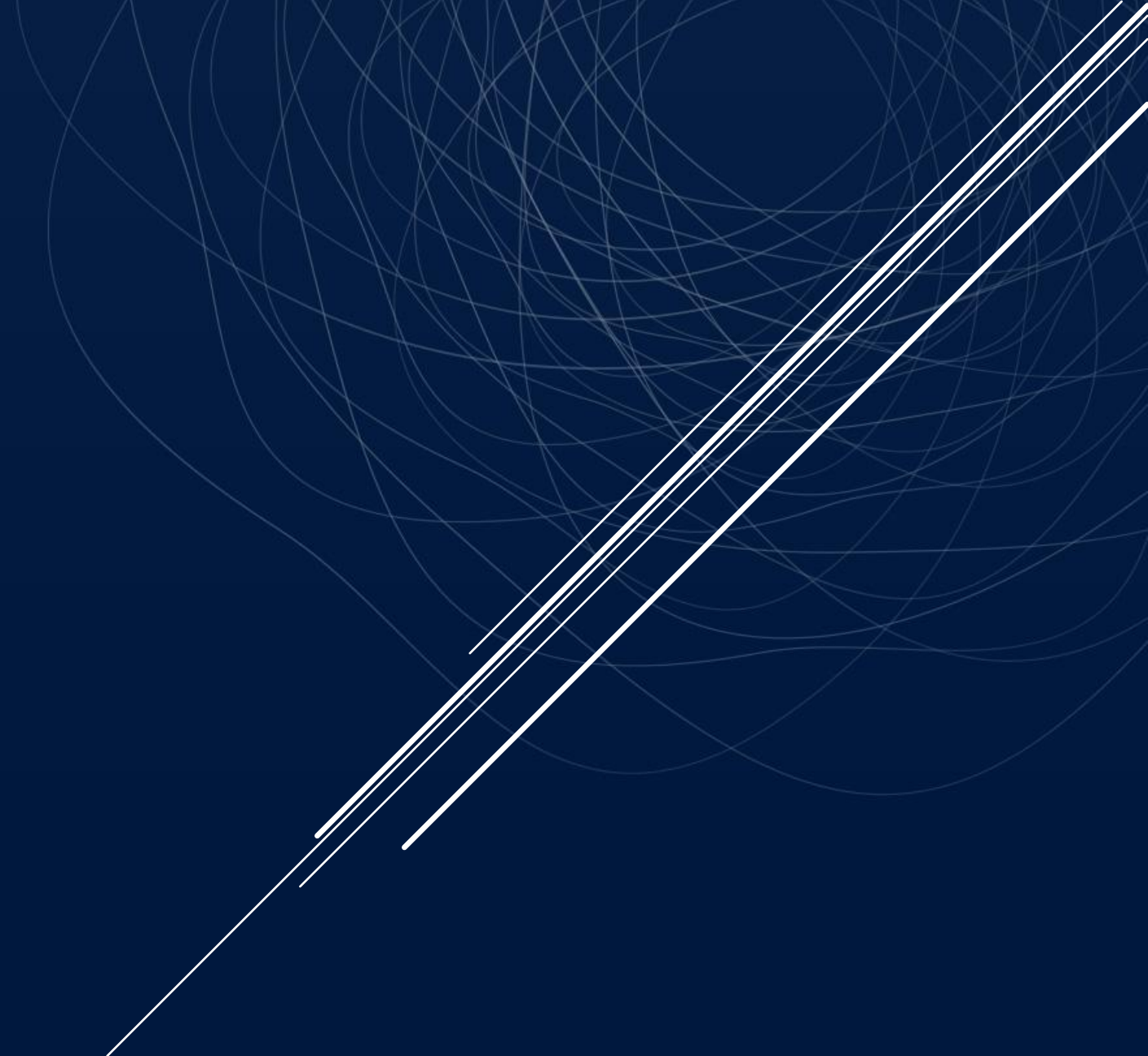
# COMMERCIALISATION STRATEGY

- Recovery of Hydrogen/Helium requires a separation plant (provided by offtake) as the gas comes to surface with impurities including Helium Hydrogen
- Refinery in Darwin provides a field plant for the cryogenic recovery of raw Hydrogen/Helium which can receive trucked raw Helium from the off-taker
- The Company has executed extension of the off-take MOU agreement with Harlequin Energy for Hydrogen/Helium purification by way of pressure swing absorption recovery into high purity products, utilising the Hydrogen as an alternative to the natural gas to power the plant
- The products may be stored on-site bunker facilities or solution mined salt caverns (following a recently completed Salt Cavern study commissioned by Georgina)
- Helium is a non-combustible, non-toxic product and can be trucked to the Darwin plant for refining and Hydrogen can be easily converted to ammonia, for economical safe long-distance transport & export
- Hussar (Stage One) is to be commercialized, EPA155 (Subject to granting) will be developed and additional targets identified and prioritised
- Georgina intends to supply from the wellhead under Off-Take agreement to mitigate infrastructure costs which has been confirmed and verified by the Scoping Study





# LEADERSHIP & VALUATION



# HIGHLY EXPERIENCED BOARD & MANAGEMENT



## **Anthony Hamilton, *Chief Executive Officer***

Mr Hamilton is a Fellow of the Institute of Directors in London and is an Accountant by profession with over 35 years of extensive executive experience in investment advisory, oil & gas, exploration and production of gold, diamonds, base metals and property development.

Mr Hamilton is also accredited with developing Zimbabwe and North Americas first commercial diamond mines with hands on expertise to develop assets from discovery to production.

## **John Heugh, *Executive Technical Director***

Mr Heugh holds a BSc in geology from the University of Texas, Austin. He has over 50 years extensive experience in oil and gas exploration geology, and in helium exploration.

Mr Heugh was the founding Director of Central Petroleum Ltd., the biggest acreage holder in Australia of prime petroleum exploration, as well as Founding Director and Executive Vice-Chairman of PetroAfrique Oil & Gas Ltd, and Founding Director and Executive Chairman of Gryphon Mining & Energy Melanesia Pty Ltd.

## **Peter Bradley, *Non-Executive Chairman***

Peter Bradley is a corporate lawyer with over 35 years' experience advising corporate transactions including capital raising and mergers & acquisitions on private and public markets.

He has advised start-ups to some of the world's largest listed companies. He has practised extensively in both Europe and Asia, both as a partner in City firms and in-house.

## **Mark Wallace, *Executive Finance Director***

Mr Wallace holds a Bachelor of Economics and Accounting, is a Chartered Accountant and has over 25 years' expertise in the global financial markets. He has held positions with Standard Chartered Capital Markets, Cantor Fitzgerald and Credit Lyonnais in London and NatWest Capital Markets in Sydney.

Mr Wallace has significant experience and expertise in funding for the development of production and operational assets across numerous commodities and extensive knowledge of off-take markets.

## **Roy Pitchford, *Non-Executive Director***

Mr Pitchford was previously Non-Executive Chairman of MMM Plc. He brings over 30 years' executive and managerial expertise, having previously been CEO of Vast Resources Plc listed on the LSE and of formerly AIM quoted African Minerals Limited, African Platinum plc and Zimbabwe Platinum Mines Ltd (listed on the ASX). Mr Pitchford is a qualified Chartered Accountant (CA (Z)).

## **Bob Liddle OAM, *Native Title & Indigenous Affairs Consultant***

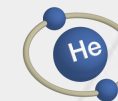
Mr Liddle has over 50 years of relevant experience in Australian indigenous and corporate relationship building and one of Australia's most experienced exponents. He has consulted for Central Petroleum, Santos, CRA limited, Western Mining Corporation, BHP Gold and Hexagon Energy, plus others. He has also consulted to the US Government agencies on American Indian relationships.

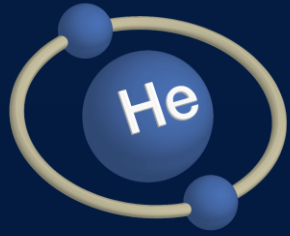
## **Sam Quinn, *Company Secretary***

Mr Quinn is a corporate lawyer with over fifteen years' worth of experience in the natural resources sector, in both legal counsel and management positions. He is a principal of Silvertree Partners, a London-based specialist corporate services provider for the natural resources industry and holds various other Non-Executive directorships and company secretarial roles for listed and unlisted natural resources companies.

Capital Structure	Shares
Issued Share Capital (as at 9 April 2025)	103,594,511
Milestone Performance Shares:	
– Drilling at Hussar	15,000,000
– Drilling Mt Winter	<u>10,000,000</u>
Total Milestone Performance Shares	25,000,000
Total Warrants in issue	13,929,850
Fully Diluted Share Capital	142,524,361







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Anthony Hamilton

Mark Wallace

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