



Company Presentation



June 2023

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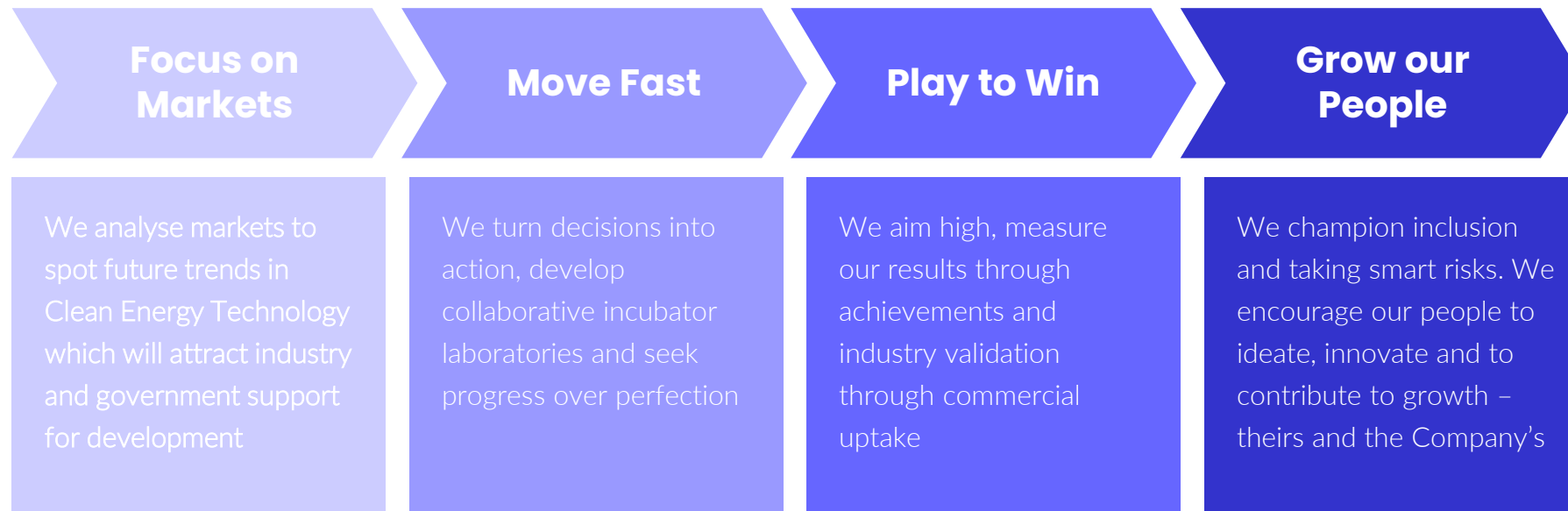
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Building on our strong foundation in nuclear science we have assembled a team of internationally recognised, high calibre scientists and engineers to develop sustainable energy solutions, often through the beneficiation of existing wastes or underutilised resources.

entX's business model is to continue to build the technical, financial and management capability to rapidly and ruthlessly assess, develop and fund multiple parallel technology commercialisation opportunities from incubation to monetisation within our target sectors.



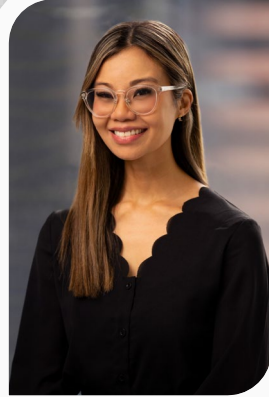
Team – Our people



Mr Bryn Jones
Managing Director



Dr Julian Kelly
Chief Technical
Officer



**Dr Massey
de los Reyes**
Principal Scientist



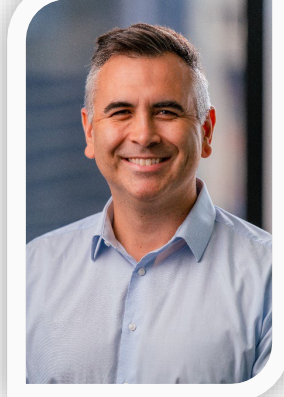
Dr Scott Edwards
General Manager -
Generation
Technologies



Mr Damien Connor
CFO &
Company Secretary

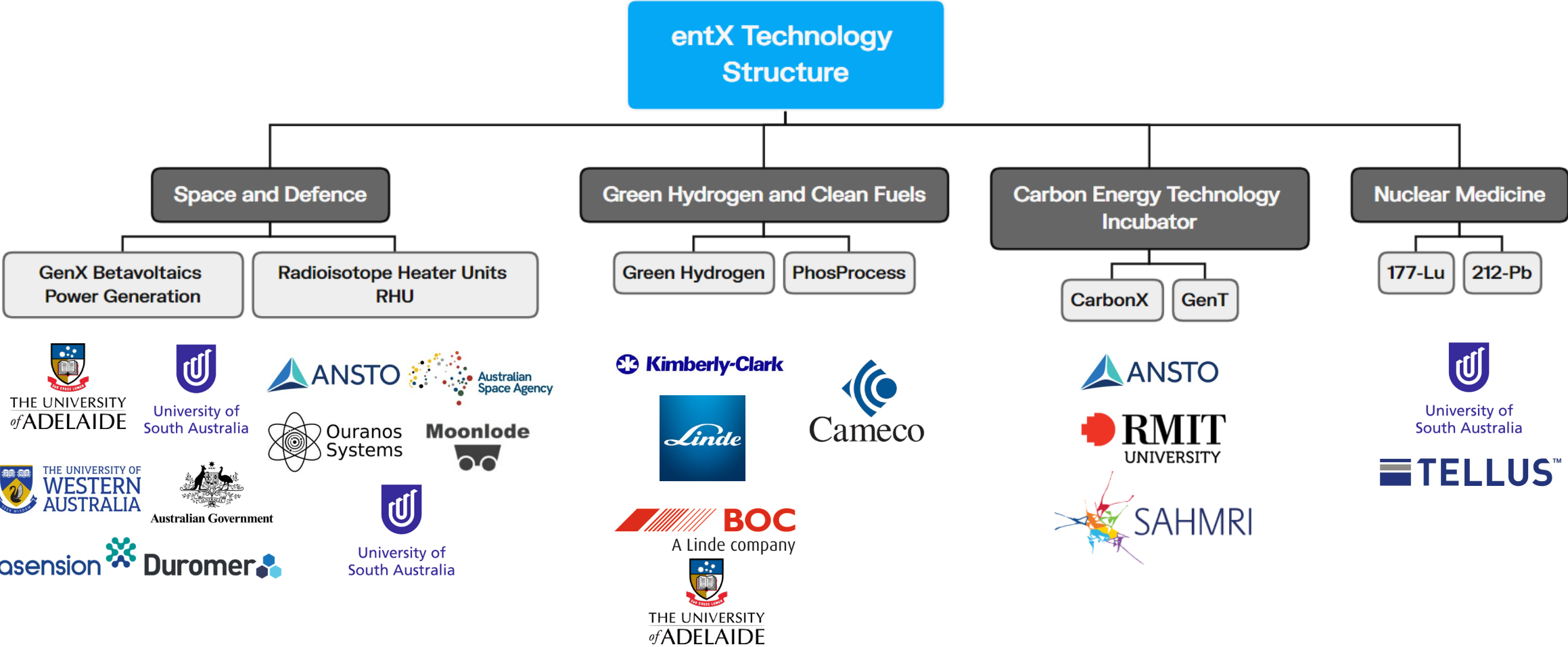


Mr Leigh Whicker
Commercial Manager



Mr Glenn Toogood
General Manager
Hydrogen and Clean
Fuels







Green Hydrogen

- Kimberly-Clark Green Hydrogen Supply
- Western Eyre Green Hydrogen development and storage
- Growth opportunities across H2 salt storage and industrial decarbonisation

Space and Defence

- GenX – Rapid prototyping disruptive technology
- Radioisotope Heater Unit

Medical Isotopes

- Developing secure Australian supply chains for vital and emerging medical isotopes

Carbon Transition Technologies

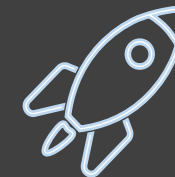
- CarbonX
- GenT
- PhosEnergy Process





Australian industry continue to invest in carbon abatement opportunities in order to meet Australian Governments 43% emission reduction target by 2030.

As space exploration continues to expand, the need for space power systems is forecast to be US \$5 Billion by 2026**



As the world explores for clean energy solutions to power generation, the global market for responsibly sourced Uranium is continuing to grow

IEA (2022), forecast the market for Hydrogen to be US \$ 137 Billion in 2022, growing 6.4% (CAGR), to reach US \$ 225 Billion by 2030

H2



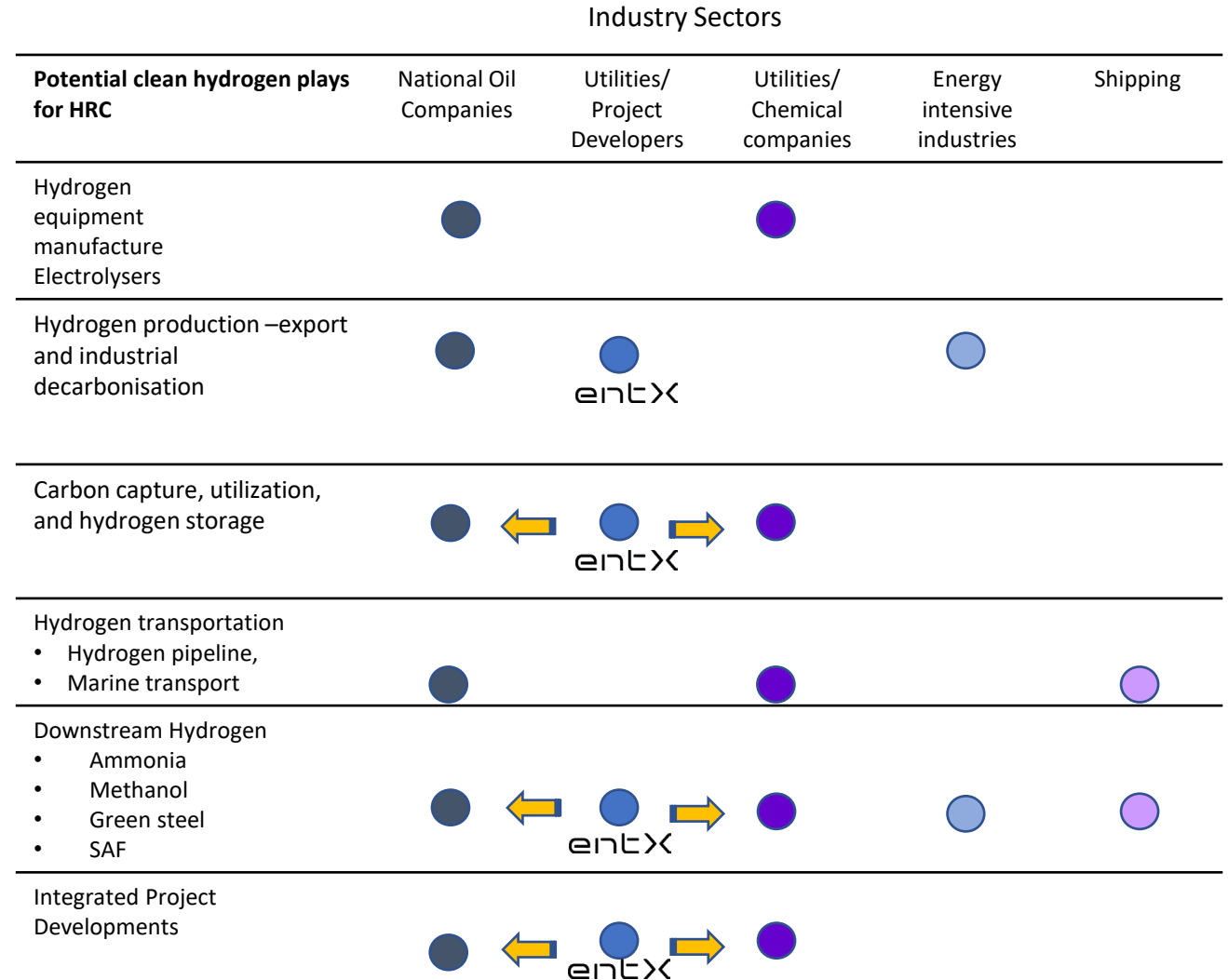
Recent geopolitical developments and pandemic events has placed the development of sovereign nuclear medicine supply chains as a national priority.



Green Hydrogen

Hydrogen Strategy

- Develop projects for secure industrial offtake customers looking to decarbonize operations
 - KCA is the foundation project in this strategy with multiple additional targets being developed across a range of sectors
- Develop gigawatt scale hydrogen development concepts such as Western Eyre Green Hydrogen at locations where large-scale underground storage is viable
 - Assess co-investment opportunities across other industry sectors
- Develop downstream customer base/demand for hydrogen and associated products (Ammonia/Methanol/SAF) to enhance project marketability



→ Co-investment opportunity

Source: McKinsey&Company, 2022 (adapted)

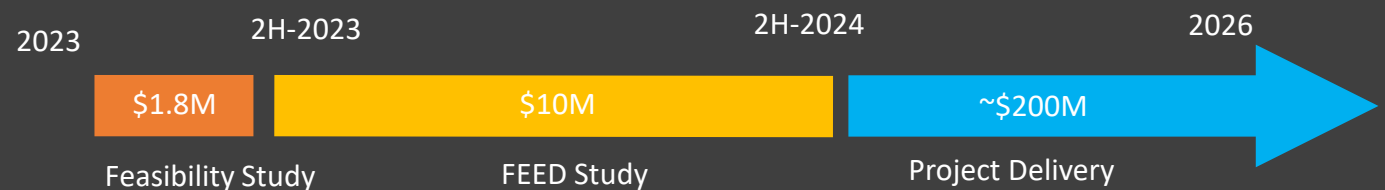


Kimberly-Clark Tissue Mill, Millicent, SA

The entX Green Hydrogen business is built on key differentiators: Industrial offtake partners to reduce commercial risk and commercial scale storage to enable efficient downstream commercial development.

- MOU in place with Kimberly-Clark Australia (KCA), to investigate partial replacement of their existing energy supply input with Green Hydrogen. This replacement, combined with other electrification initiatives, will assist the KCA in meeting its target of net zero carbon emissions by 2030
- Feasibility Study commencement – April 2023 (WGA and Linde Engineering)
- The project is targeting first commercial hydrogen production in 2026

Project Highlights – Near term cashflow; Potential for secure, long term hydrogen offtake; Opportunity for expansion through development of a hydrogen transport hub.



Green Hydrogen

Western Eyre, SA Green Hydrogen Storage

The Company has Identified and secured a rare opportunity in the development of giga-scale hydrogen projects – **with the potential for large-scale underground salt cavern hydrogen storage.**

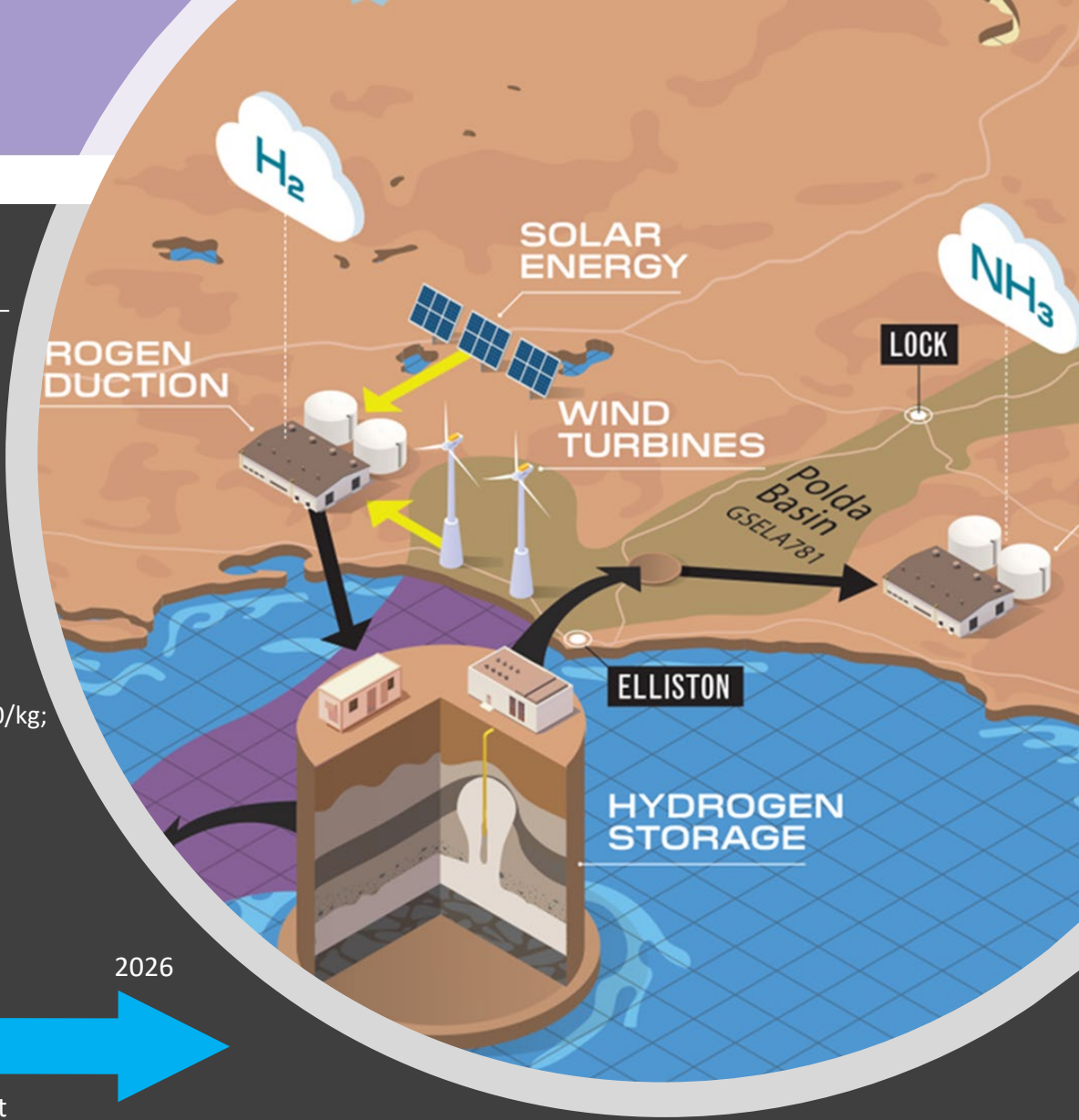
entX holds gas storage exploration tenure over the entire onshore area of the Polda Basin, located on the Western Eyre Peninsula of South Australia recognised as:

- A tier one location for wind energy
- High potential solar power region
- Access to deep water port – export infrastructure and domestic supply markets
- Access to regional population centers and agricultural communities

Exploration and definition of salt caverns within entX’s tenure is expected to commence Q2 2023.

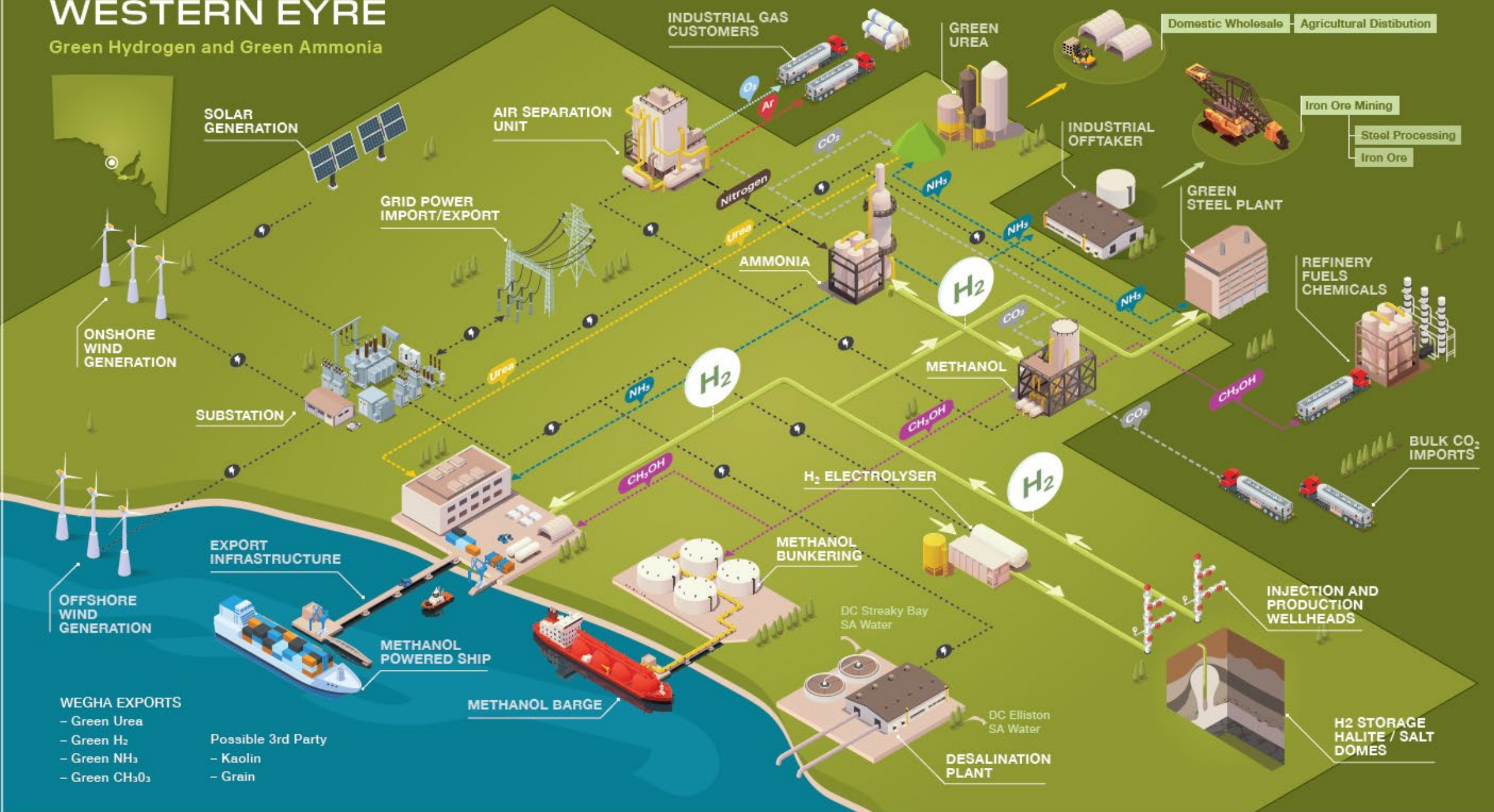
BloombergNEF reports levelised cost of hydrogen storage: engineered tanks US\$2.30; depleted gas field US\$1.90/kg; rock cavern \$0.71/kg; salt cavern \$0.23/kg

Project Highlights: Infrastructure-scale hydrogen generation enabled by large-scale, cost-effective storage capability; Potential multi-user product offtake from export commodity products to grid-firming

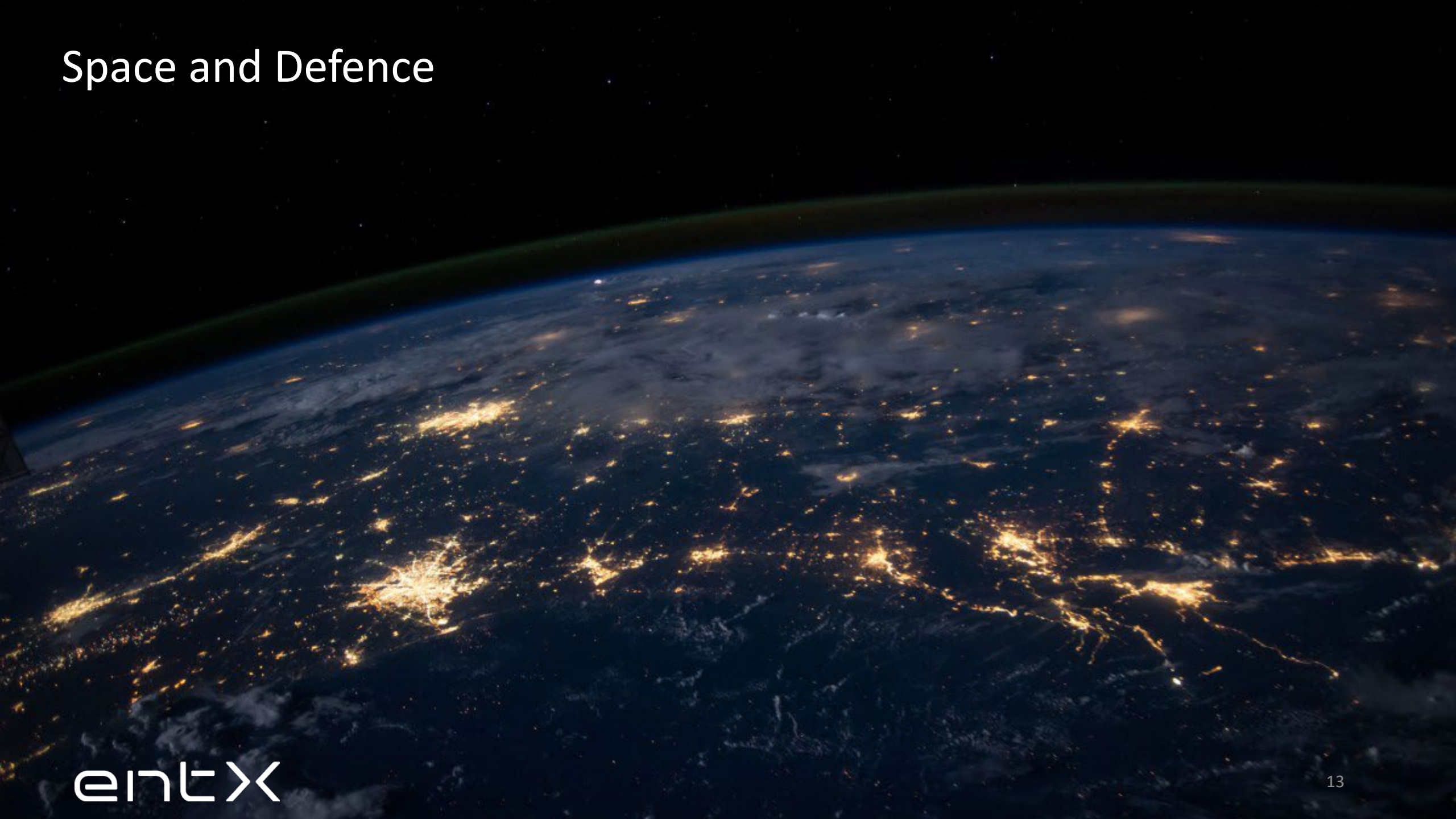


WESTERN EYRE

Green Hydrogen and Green Ammonia



Space and Defence



GenX Energy Units uniquely combine metals, semiconductors and beta-radiation into smart structures that produce constant DC power over very long time frames.

Development is currently being driven on parallel paths:

- Awarded a CRC-P for a total project value of \$6.2 million to develop the GenX product suite.
- Contracted by the Australian Government and other industry partners to undertake accelerated prototyping of a particular incarnation of the GenX technology.

Project Highlights: Patent-pending, third party validated technology; Carried to commercial prototype development with minimal entX cash contribution; Maintain 100% IP ownership through decision to commercialise.

2023

2024

2025

\$4.7M

~\$8M

Commercial
Prototyping

Commercial Development

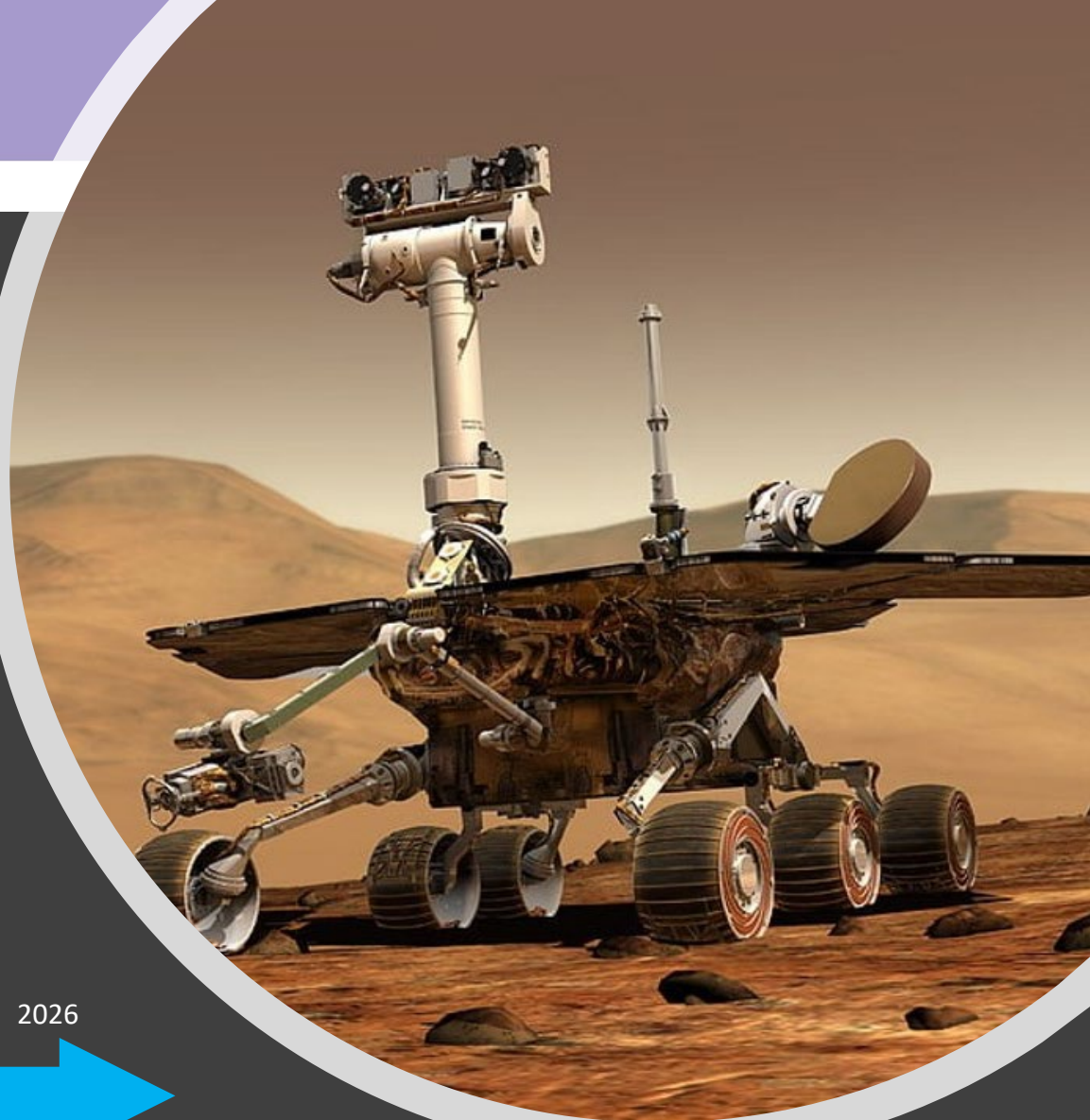
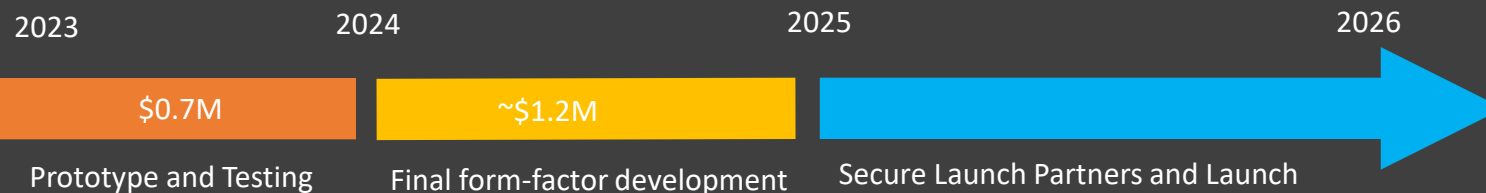
Production

Radioisotope Heat Units (RHUs)

entX Radioisotope Heat Units (RHUs)

- RHUs have been used in the global space industry for many years to provide internal heat to keep electronics warm in extreme environments such as lunar night and deep space.
- entX has developed an Australian supply chain for RHUs with improved cost, safety, permitting and accessibility outcomes for short to medium term space missions .
- A prototype RHU is scheduled for completion mid 2023.

Project Highlights: Secure IP for RHU core material and form-factor development; Prototype unit will enable commercial data-sheet development; commercial supply agreements targeted 2025.





Medical Isotopes

Carbon Transition
Technologies

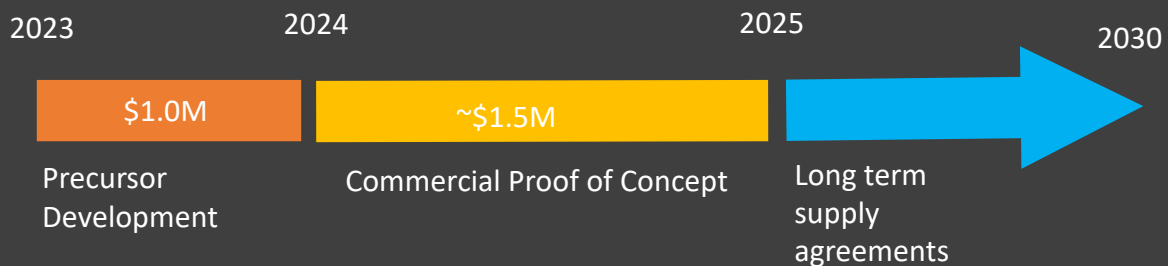
Medical Isotope Production

entX is developing processes and technologies to feed the exponential growth of the Theragnostic and Targeted Alpha Therapy cancer treatment markets.

177-Lu Supply Chain – development underway at UniSA, PoC completed aiming at commercial demo end 2023.

212-Pb Supply Chain – Joint Development Agreement with Tellus Holdings Ltd to source up-stream components from waste material.

The Company intends to generate commercial quantities of these medical isotope precursors in 2024.



Clean Energy Technology Incubator

The PhosEnergy Process

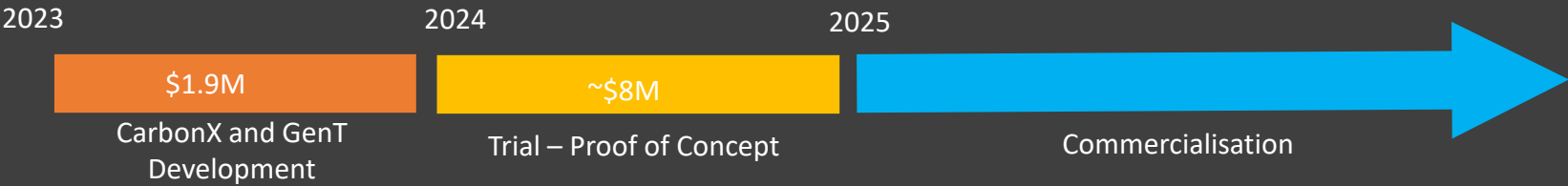
The Company's foundation technology is the PhosEnergy Process (the "Process"), a patented technology developed to recover uranium from phosphate fertiliser production. PhosEnergy and global uranium company Cameco Corporation ('Cameco') are jointly considering commercialisation opportunities for the PhosEnergy Process via a registered Colorado company called Urtek LLC ('Urtek'), which is beneficially owned 74.21% by Cameco and 25.79% by PhosEnergy.

CarbonX Process

The CarbonX Process is a ground-breaking technology, which has the potential to profitably convert CO2 to methanol and other commercial products. Until now, the conversion of CO2 into useable chemicals has been technically possible but commercially challenging, with existing technologies hampered by the large amount of energy input required. The Company's CarbonX Process offers the opportunity of a low-cost solution to deliver a range of commercially viable products, including methanol and other C1 and C2 carbon compounds.

GenT

GenT is a thermovoltaic (TV) technology which utilises the GenX electrode system in combination with selected semiconductors - converting infrared radiation (waste heat) to electrical energy. With almost unlimited application in the field of thermal energy recovery, GenT is readily adaptable and has significant potential for large scale commercial deployment, greatly assisting new and existing industrial facilities to recover waste heat as electricity, whilst abating their existing carbon footprint.

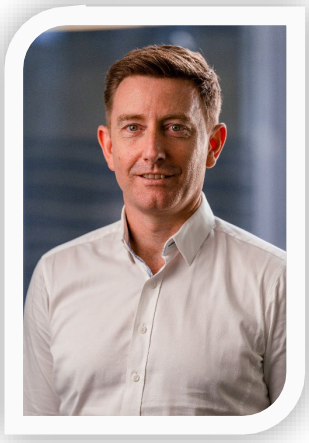


Corporate Info

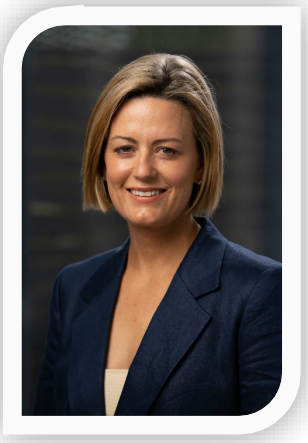




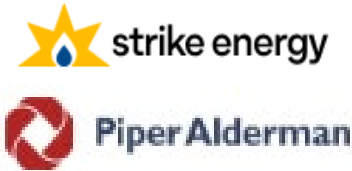
Mr Anthony Kiernan
Chairman



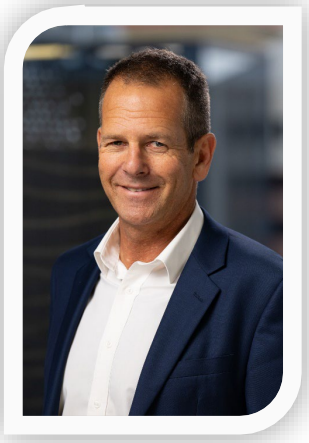
Mr Bryn Jones
Managing Director



Ms Lucy Gauvin
Non-Executive Director

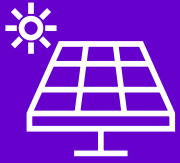


Mr Tim Goyder
Non-Executive Director



Mr Tim Wise
Non-Executive Director





Suite of proprietary clean energy technologies and projects providing a step change in the way energy is resourced



Commercial partnership strategy provides multiple opportunities to demonstrate and generate near-term value



Pipeline of new 'disruptive' technologies and projects progressing IP to commercialisation, providing future value generation opportunities



Large addressable markets with demand for clean energy substitutes growing



Globally experienced execution team and board to deliver growth plan