

FUTURE ENERGY AND ENERGY MATERIALS

FUTURE ENERGY

HEXAGON AND HYDROGEN



The global Hydrogen export market by 2050 is forecast to be A\$300 billion. This is attracting significant attention. On a risk managed shareholder value maximising basis, becoming established in this market is a core to Hexagon’s strategic focus.

Hexagon’s initial focus is on large scale blue Ammonia project development in Australia to meet export market demand. Utilising local feedstock and Carbon Capture and Storage (CCS) to decarbonise the end product.

Hexagon's plan is, to the greatest extent possible, to use Renewable Energy in hydrogen production and over time, transition to green, liquid hydrogen production, once key hydrogen materials handling technology breakthroughs are achieved on a commercial basis.

The Hexagon team is experienced with skills in hydrogen project development and understands how important to project success the following are:

- Access to low-cost feedstock and proven production technologies,
- Access to well established port, gas, electricity and transport infrastructure,
- Access to low cost, quantities of quality water,
- Access to low-cost renewable energy,
- Access to installed Carbon Capture and Storage (CCS) infrastructure and reservoirs.
- The building of end customer relationships and securing offtake agreements

Hexagon’s first hydrogen project is the NT (Pedirka) Project. Since May 2021 the Pre-Feasibility (PFS) for this Project has been substantially progressed leading to a range of commercial, locational and technical project improvement opportunities being identified and progressed.

A pipeline of Australian clean hydrogen projects is being progressed based on critical success factors and applying the Hexagon team’s skills and experience including in Natural gas fed Steam Methane Reformation (SMR) with CCS blue Ammonia.

The Hexagon team’s practical approach, Australian industrial sector and government relationships and international end customer networks underpin the Company’s best possible outcomes being delivered for stakeholders in the emerging Hydrogen market.

FUTURE ENERGY MATERIALS

Hexagon owns a solid future energy materials asset base.

1. McIntosh Project - Nickel-Copper-PGE’s

Hexagon’s McIntosh Project comprises a highly Ni-Cu-PGE prospective 542km² ground holding (17 Exploration Tenements) in the Kimberley in the Northwest of Western Australia (WA), with Panoramic Ltd’s Savannah Nickel Project and processing plant to the North and Future Metals NL’s Panton PGE project to the south of Hexagon’s McIntosh Project ground holdings.

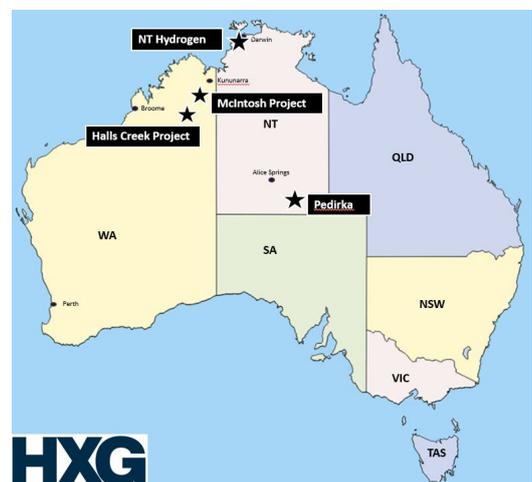
Hexagon’s systematic Ni-Cu-PGE exploration approach over the past two years has modelled and identified multiple drill targets to be drilled during the 2022 field season.

2. McIntosh and Ceylon Project - Graphite

- Hexagon's plan is, to the greatest extent possible, to use Renewable Energy in hydrogen production and over time, transition to green, liquid hydrogen production, once key hydrogen materials handling technology breakthroughs are achieved on a commercial basis.
- In the USA (Alabama) in December 2021 Hexagon completed a development deal (Binding Earn-in-Option) with Canadian Graphite project development company South Star Battery Materials Corporation (TSXV: STS) over the Ceylon Graphite deposit (ground holdings of 500 km²) that Hexagon had secured and invested in assessing, with an agreed ‘on the ground’ program (expenditure) taking place over the next three years by STS.

3. Gold and Base Metals

Hexagon’s holds 430km² of highly prospective Au-Cu ground (13 Exploration Tenements) in the historic gold mining area of Halls Creek in WA, with multiple priority targets identified through geophysical work completed in 2021.



Map showing Hexagons Australian Project Portfolio

FUTURE ENERGY AND ENERGY MATERIALS

Northern Territory (Pedirka) Hydrogen Project Pre Feasibility Study

01 >

Engagement with governments to ensure project continues to be consistent with hydrogen strategies for domestic use and export, and approval processes are within commercial timeframes by NT Government representatives providing services for the NT Environmental Protection Authority (EPA)

02 >

- a) Identify technology partner for gasification process
- b) Determine whether hydrogen or hydrogen derivatives such as ammonia are the best route to market

03 >

- a) Determine coal resource and hydrogen production potential

Drilling program aimed to establish JORC Compliant Resource during Pre-Feasibility
- b) Identify other option/opportunities (technical and commercial comparisons)

04 >

Develop carbon capture and storage (CCS) solutions to ensure production of blue hydrogen end product

05 >

Determine optimal supply chain for transportation of raw material, as appropriate, and end product

06 >

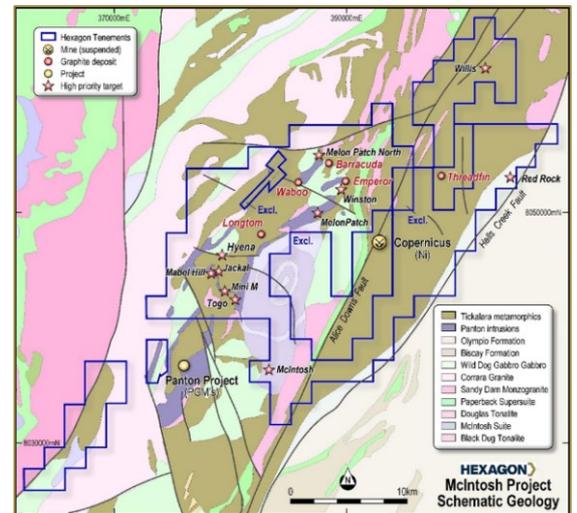
Progress financial modelling and commercial analysis and customer offtake agreements at competitive price of delivery to end markets

McINTOSH NI-CU-PGE PROJECT

The McIntosh Project area has established Ni-Cu-PGE potential through deposits including the + 2 Moz Panton PGE Project and Panoramic Ltd's Copernicus Ni-Cu Deposit and Resources and Savannah and Savannah North Ni-Cu operations.

Through a systematic, wide ranging geological program of work over the past two years (geophysical data collection and review, geochemical work (soil sampling), on the ground mapping and resource model development) several high priority targets, including Melon Patch North, Mabel Hill, Jackal and Hyena have been identified with a drilling program planned for the 2022 field season.

Extensive graphite deposit development work has also taken place at McIntosh.



HALLS CREEK AU- CU PROJECT

High-grade gold targets and base metal prospects

Halls Creek is a historic gold mining area.

Hexagon's Golden Crown South prospect has Au in soil anomalies over a length of 1.4 km. This prospect is associated with similar fault structures to the nearby historically gold producing Golden Crown and Butcher Creek Gold Mine.

The results below have been recorded on Hexagon held ground at Halls Creek.

HISTORIC SURFACE SAMPLING INCLUDES:

Lady Helen	Townsite	Granite	Bent Ridge
56g/t Au from trench sample and 36.5 g/t Au from rock chip sample	26.1g/t Au	11.5 g/t Au	1.38 g/t Au

