

Gingerah Energy Hub

Renewable Energy Project

Zero Emission Power Generation, Hydrogen / Ammonia, Data Centers

6 December 2024

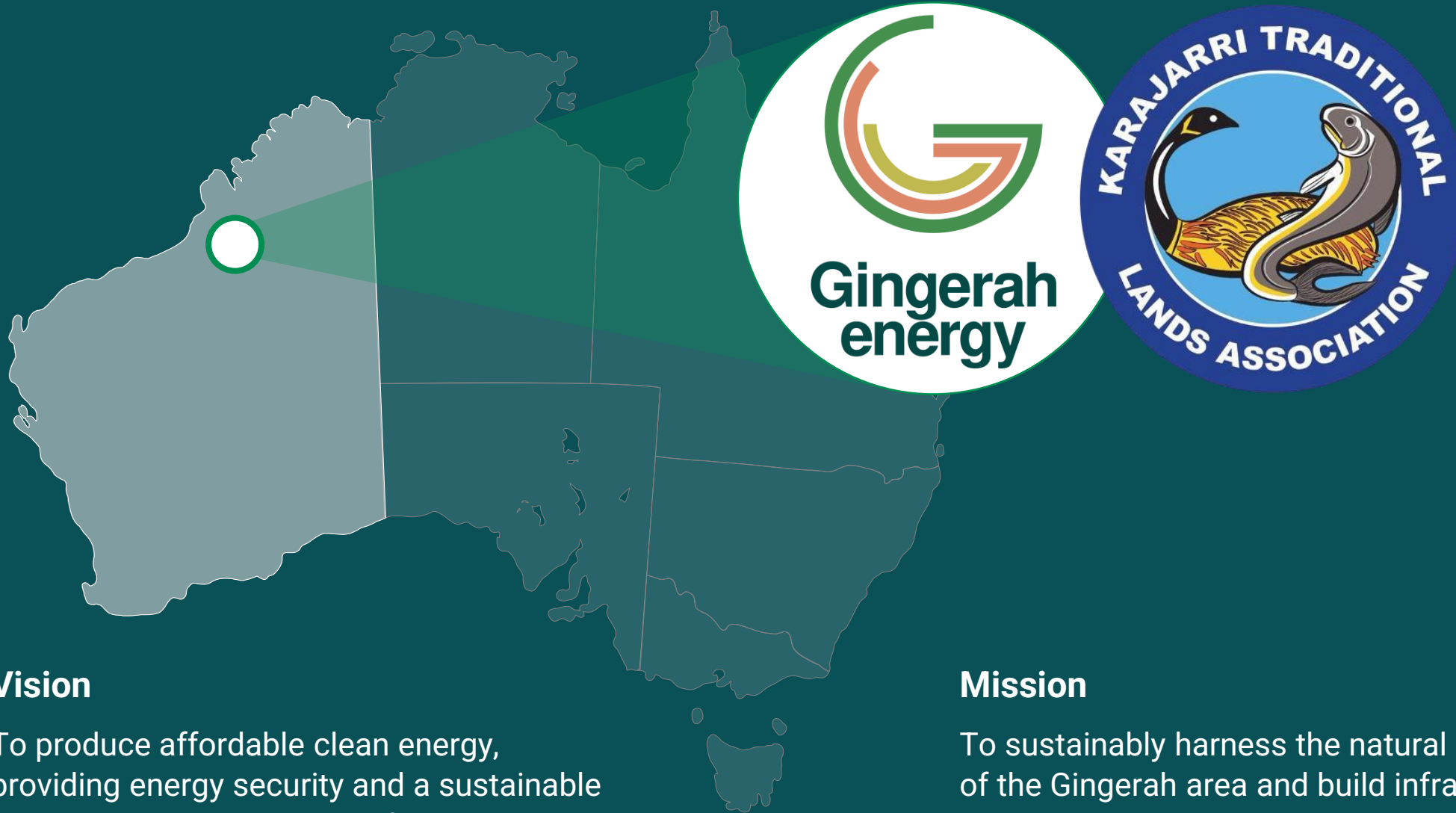
The Future is Now.

Jop van Hattum – CEO Gingerah Energy



**Gingerah
energy**

The Future is Now.



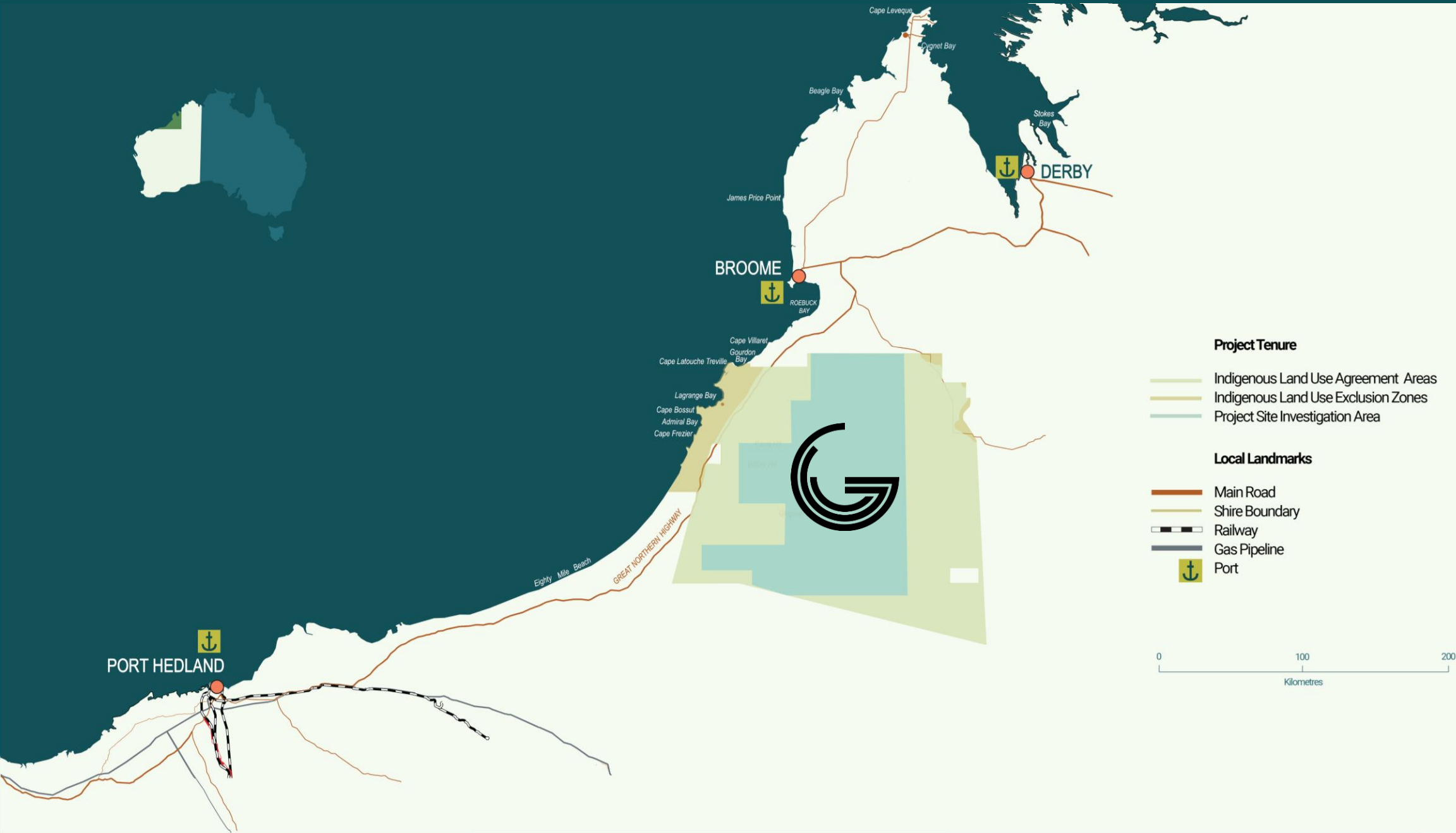
Vision

To produce affordable clean energy, providing energy security and a sustainable economy in the northwest of Australia.

Mission

To sustainably harness the natural energy resources of the Gingerah area and build infrastructure for economic development in the northwest of Australia with traditional owners and the local community.

Gingerah Energy Hub: Project Location & Scale

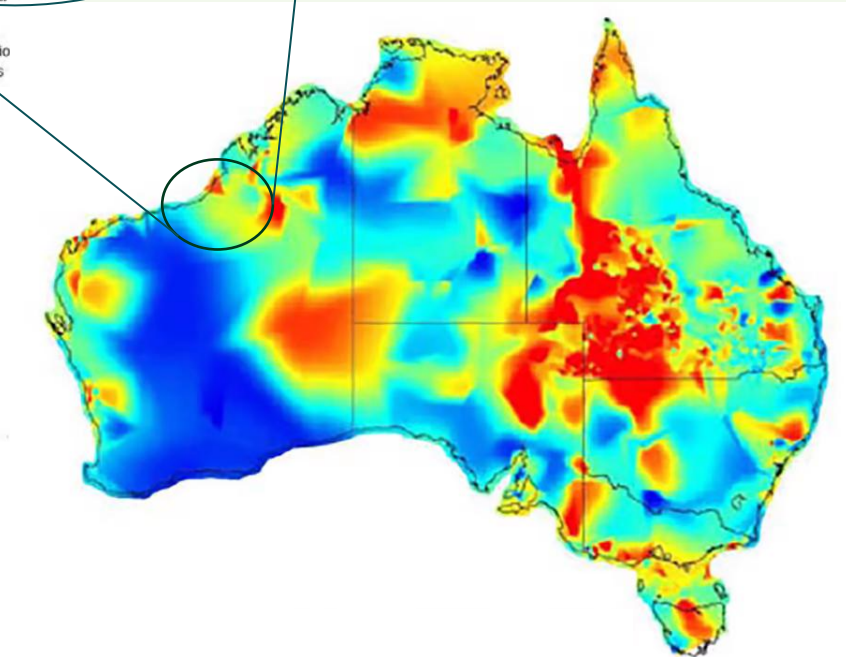
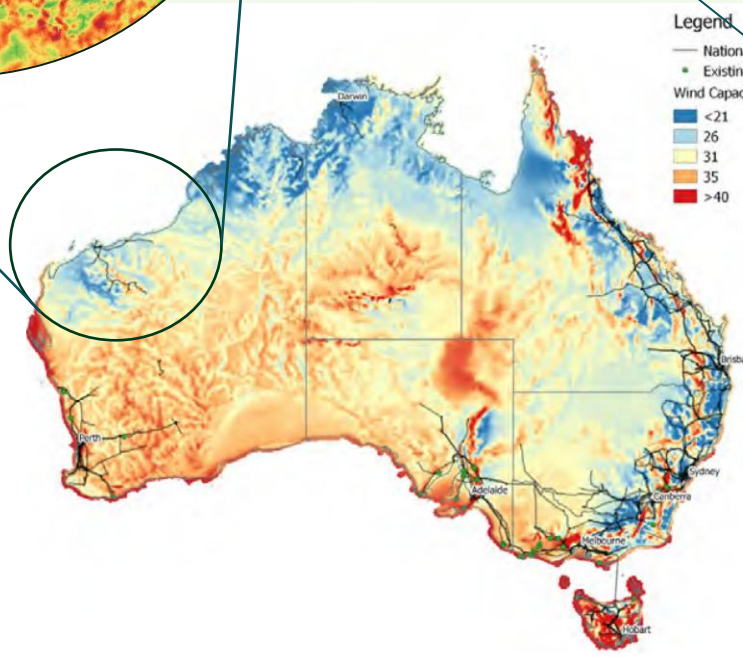
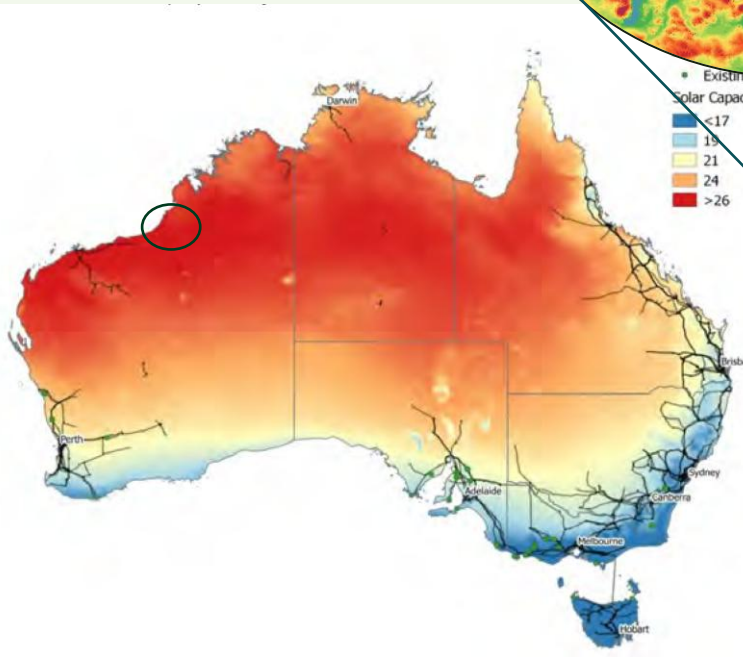
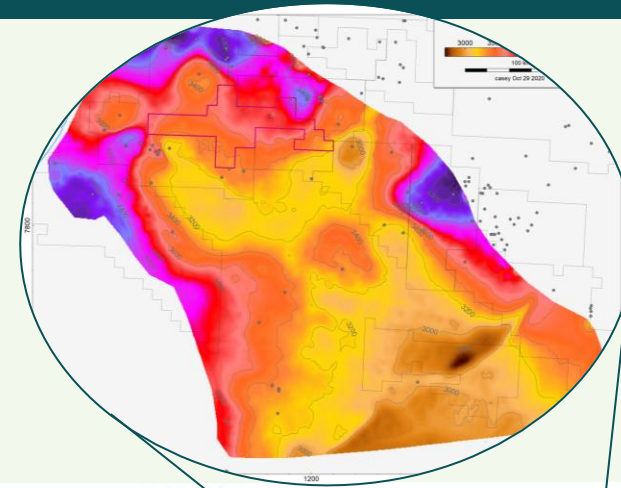
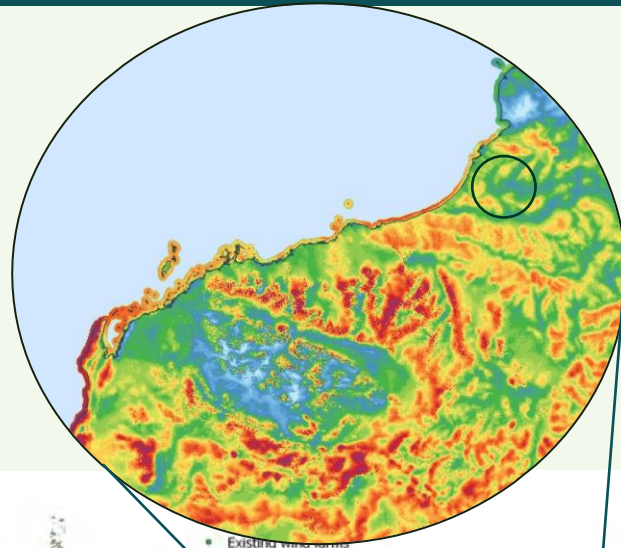


Project Agreement Area



30,000 km²

World Class Renewable Energy Resources

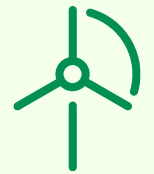


Solar

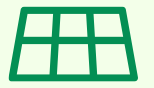
Wind

Geothermal

Gingerah Energy Hub Markets



Wind



Solar PV



Concentrated Solar



Geothermal

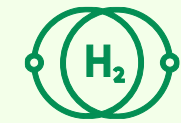


Data Centers



Power Supply

Green Iron/Steel



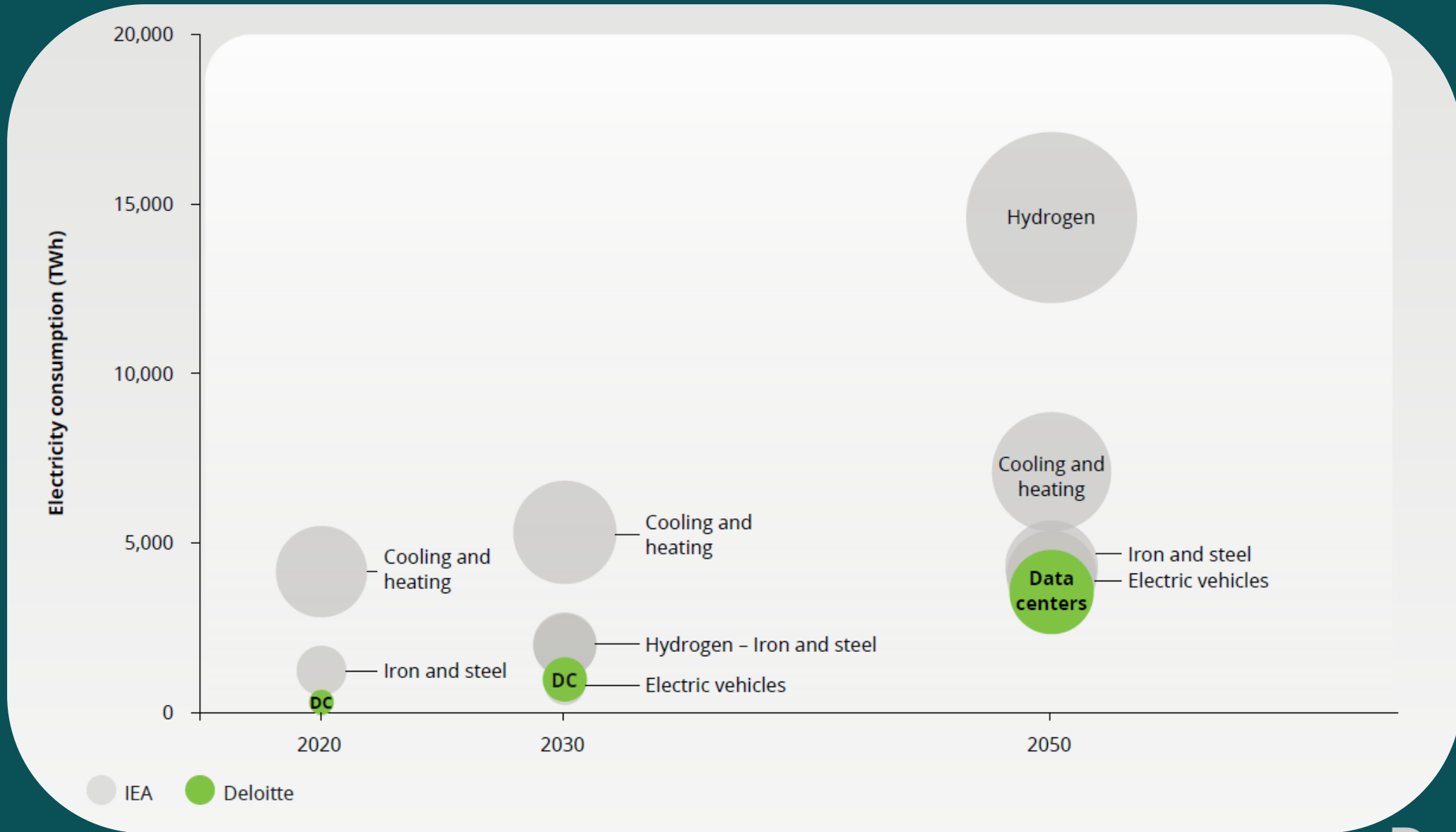
Green Hydrogen



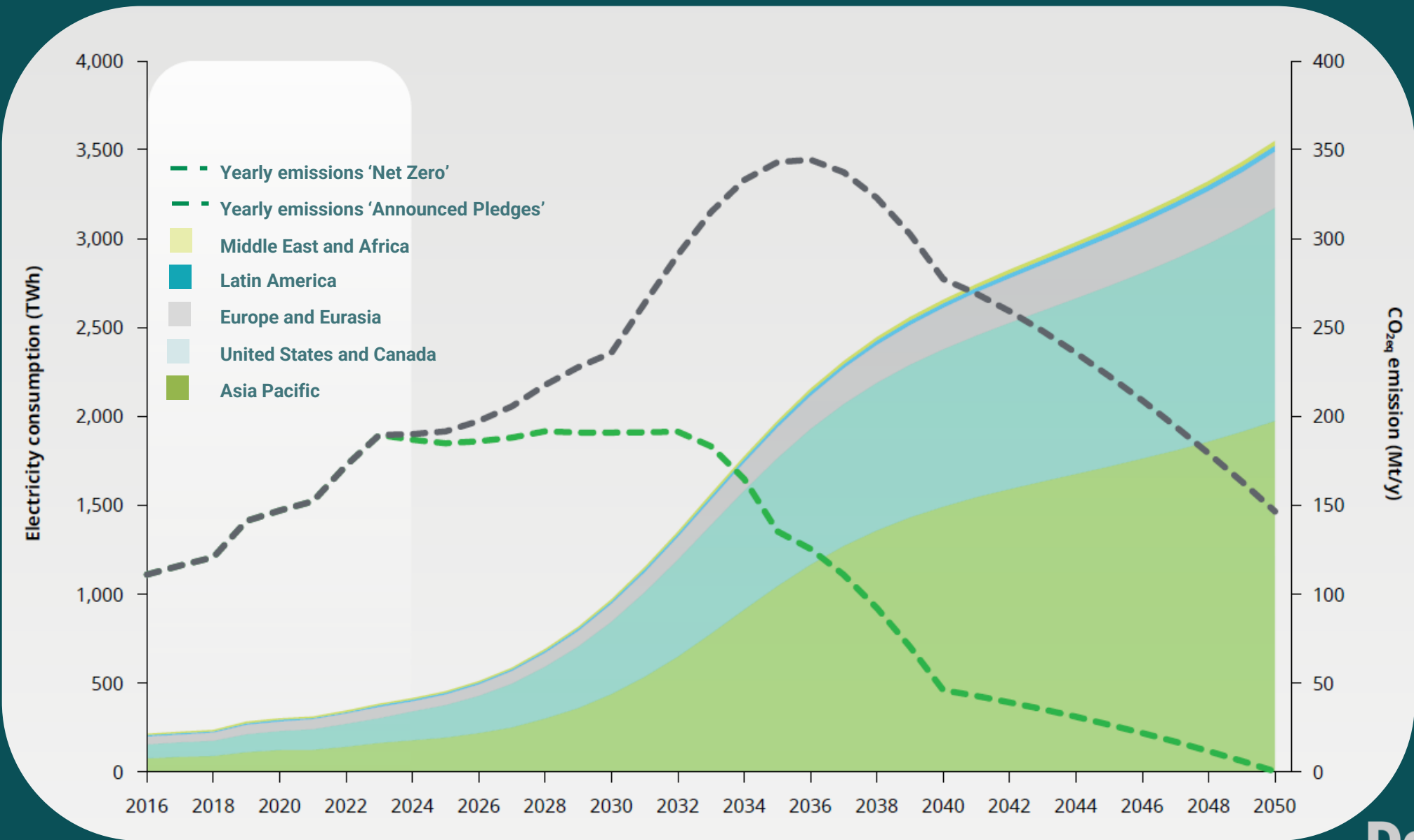
Green Ammonia



Forecast Energy Consumption in Key Applications



Energy Demand of Data Centers by Region



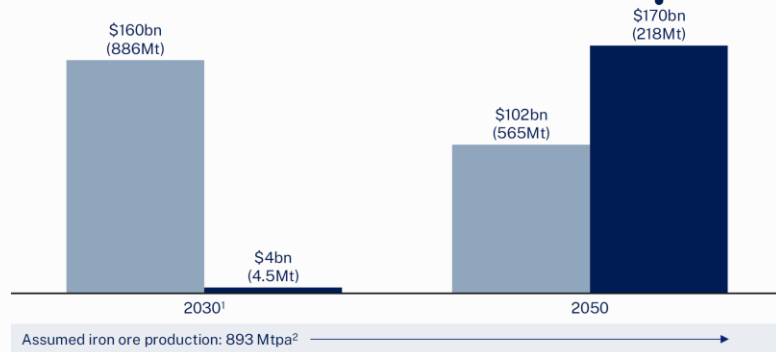
Green Iron Potential in WA

Indicative value of Western Australia iron exports

\$bn and Million tonnes (Mt) of product, by product type, 2030 and 2050

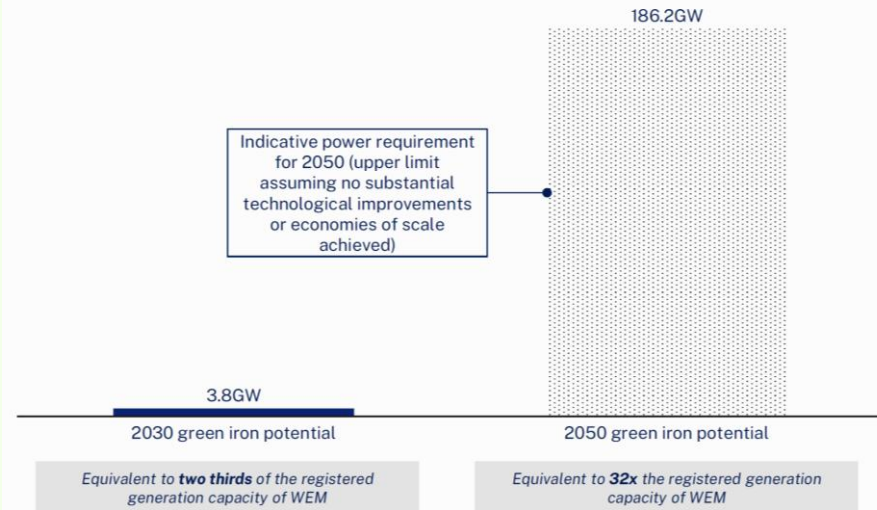
■ Iron ore ■ Green iron

With a new green iron industry, the total value of WA's iron exports could increase by **\$108 billion (66%)** between 2030 and 2050, driven by higher prices of green iron. Under this scenario, iron ore exports would decline as ores are used in green iron production but remain a key feature of the WA economy.



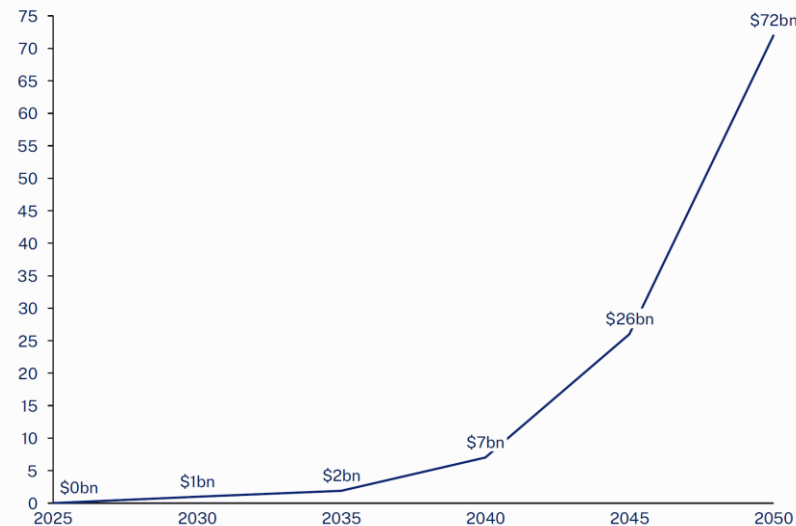
Estimated additional power required to meet Western Australia's green iron potential

Gigawatts (GW), two-step hydrogen-based DRI-ESF production process, by year



Economic activity (GVA) of a potential WA green iron industry

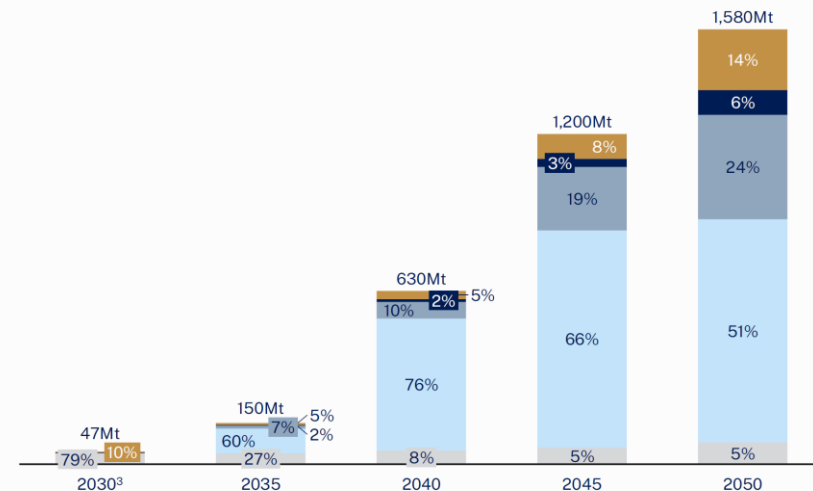
\$bn, forecast annual economic activity (GVA) in 2024 dollars, 2025 to 2050



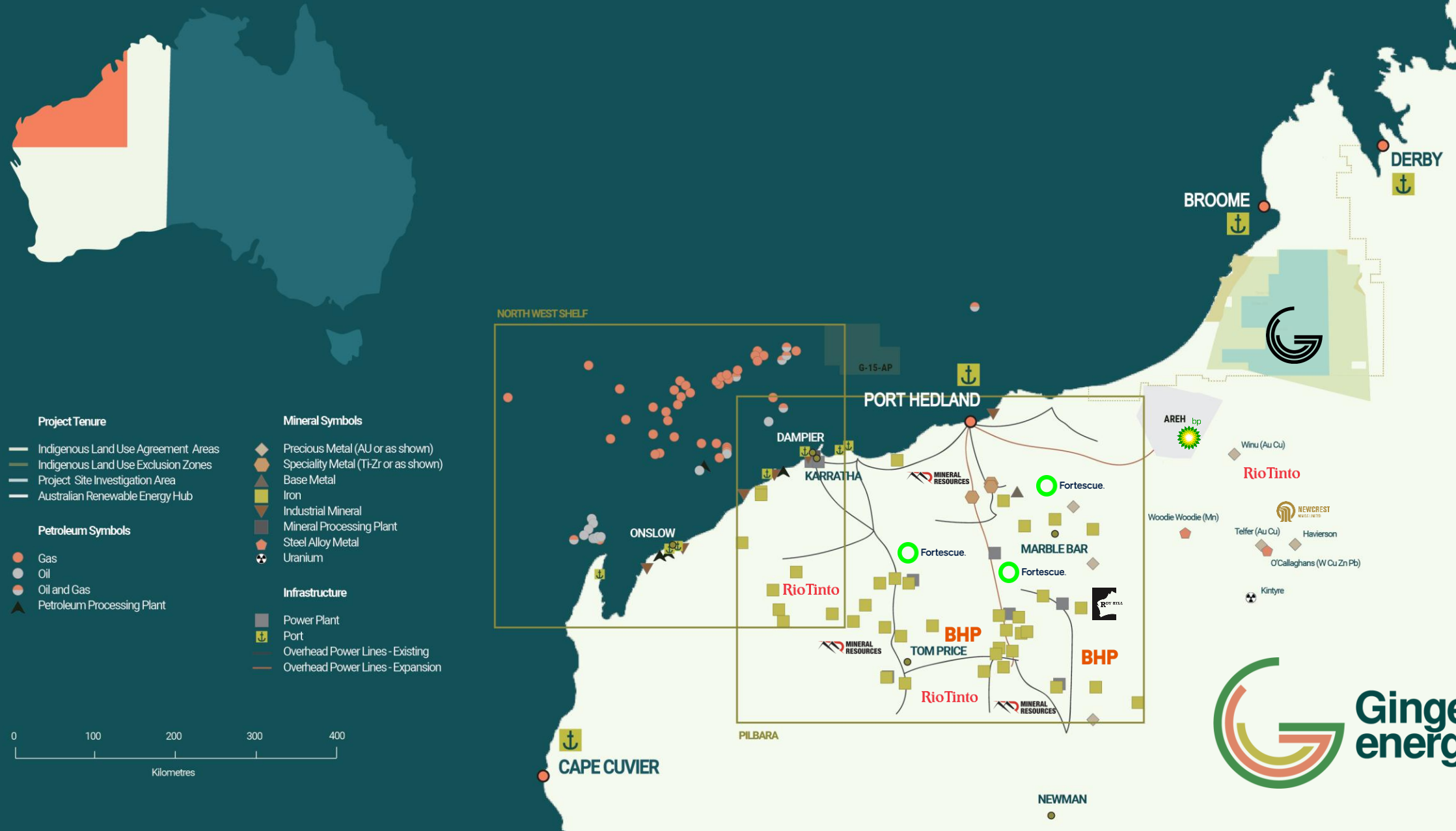
Forecast green iron production by most cost-competitive countries¹

Millions of tonnes (Mt), production for Australia, India and China, 2030-2050

■ WA ■ Rest of Australia ■ India ■ China ■ Other²



Proximity to Port Hedland and the Pilbara





The Future is Now.

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