



Agnew Hybrid Renewable Power Station

EDL owns and operates the Agnew Hybrid Renewable Power Station, a ground-breaking energy solution for Gold Fields' Agnew Gold Mine in Western Australia.

The power station will provide the mine with more than 50% renewable energy over the long term, without compromising power quality or reliability.

At a glance

Site name

Agnew Hybrid Renewable Power Station

Owner/operator

EDL

Location

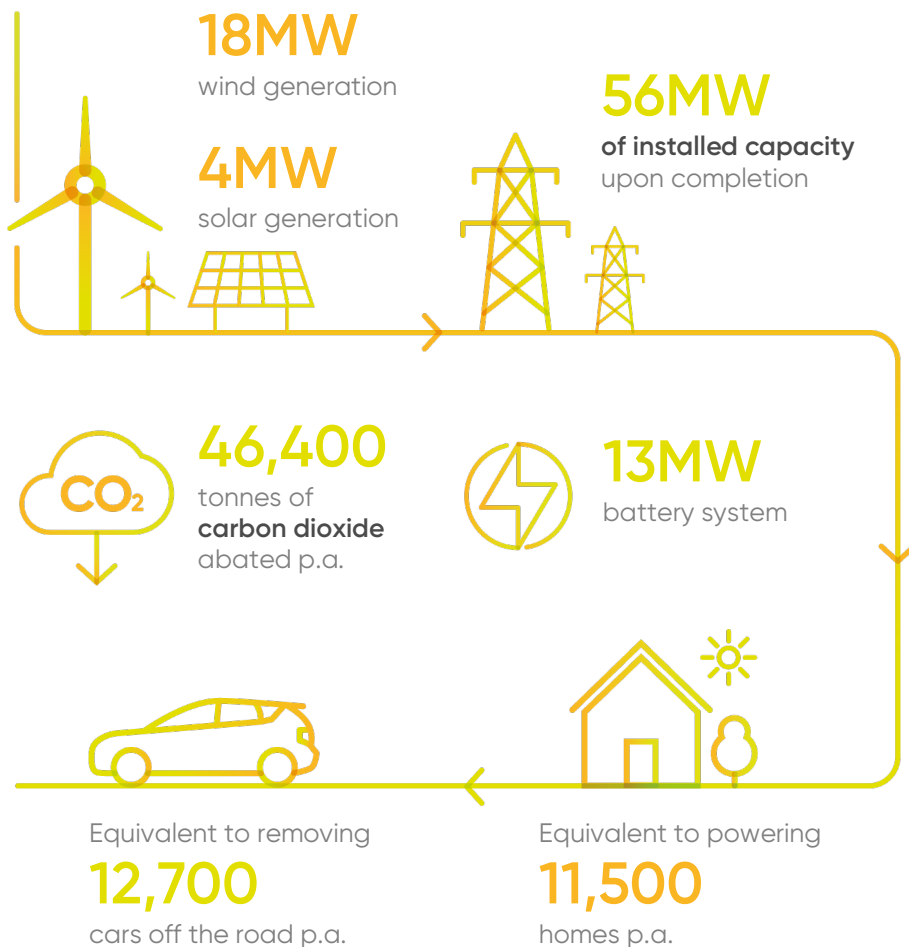
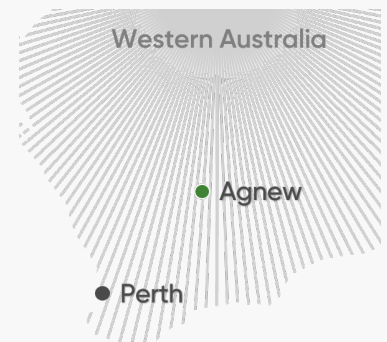
Leinster, Western Australia, Australia

Installed generation capacity:

56MW

Primary fuel

Hybrid



About the hybrid renewable power station

EDL delivered this innovative project under a 10-year agreement with Gold Fields. The Australian Renewable Energy Agency (ARENA) provided the project with \$13.5 million in funding under ARENA's Advancing Renewables Program.

"We are proud to be able to showcase this project with EDL as an outstanding example of the capacity of the hybrid renewable energy model to meet the dynamic power requirements of remote mining operations."

"This is a very clear demonstration of our commitment to reducing our carbon footprint whilst strengthening our security of supply, and paves the way for the industry as a whole to implement renewable solutions."

– **Gold Fields Executive Vice President Australasia Stuart Mathews**

Completed in 2020, the Agnew Hybrid Renewable Power Station is Australia's largest hybrid renewable energy microgrid and the first to utilise wind generation at a mine site.

The project comprises four key components controlled by an advanced microgrid system:

- five 110m wind turbines, each with a rotor diameter of 140m, delivering 18MW
- a 10,710-panel solar farm generating 4MW
- a 13MW/4MWh battery system
- off-grid 21MW gas/diesel engine power plant.

In favourable weather conditions, the power station has delivered up to 70% of the mine's power requirements with renewable energy.



The Agnew Hybrid Renewable Power Station comprises wind, solar, gas and diesel generation and battery storage.

Project suppliers



EDL owns and operates a global portfolio of power stations in Australia, North America and Europe.

We are committed to energy diversity and providing innovative, sustainable solutions to meet and exceed customer needs.



Renewables



LNG/CNG



Waste coal mine gas



Landfill gas



Remote energy



Renewable natural gas

A world of new energy

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