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Australia's largest hybrid renewable microgrid takes top honours in international awards

Global distributed energy producer EDL's Agnew Hybrid Renewable Project in Western Australia has edged out competition from around the world to be named *Engineering Solution of the Year* at the 2020 Global Energy Awards.

The ground-breaking 56MW microgrid at Gold Fields' Agnew gold mine incorporating wind, solar and thermal generation and battery storage has recently chalked up wins at the 2020 Asian Power Awards (*Innovative Power Technology of the Year – Australia*) and 2020 Australian Engineering Excellence Awards (*WA Division*).

EDL CEO James Harman said the company was honoured to be recognised for its innovative approach to delivering reliable, renewable energy for remote, off-grid industrial operations

"Congratulations must also go to our customer, Gold Fields—their vision to be a leader in sustainable gold mining inspired EDL and our suppliers to explore the boundaries of existing technologies, resulting in this remarkable hybrid renewable energy system," said Mr Harman.

"The microgrid has surpassed EDL's target of providing Gold Fields with energy that is more than 50% from renewable sources, with 99.99% reliability—a 50% renewable energy fraction abates 46,400 tonnes of carbon dioxide per year, equivalent to taking 12,700 cars off the road each year."

Gold Fields Australia Executive Vice-President Stuart Mathews says the Agnew hybrid renewable microgrid reflects the company's strategic objective to strengthen energy security, optimise energy costs and reduce its carbon footprint through innovation and the adoption of new technologies.

"This is a significant project for Gold Fields, EDL, and the broader mining industry, and we are honoured to see this recognised by this award. We are proud 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."

The Agnew Hybrid Renewable Project's demonstrated success in facilitating high renewable energy penetration without compromising reliability or quality, while reducing the remote mine's exposure to fossil fuel prices and supply interruptions, paves the way for the global mining sector to transition to renewable energy.

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About EDL

A leading global producer of sustainable distributed energy, EDL owns and operates a portfolio of 98 power stations in Australia, North America and Europe. From innovative renewable operations to clean and remote energy expertise, EDL delivers solutions to a diverse range of customers the world over.

About Gold Fields

Gold Fields Limited is a globally diversified gold producer with nine operating mines (including our Asanko JV) and projects in Australia, Chile, Ghana, Peru, and South Africa, with total attributable annual gold-equivalent production of approximately 2 million ounces. It has attributable gold Mineral Reserves of around 48.1 million ounces and gold Mineral Resources of around 96.6 million ounces. Attributable copper Mineral Reserves total 691 million pounds and Mineral Resources 4,816 million pounds. Gold Fields has a primary listing on the Johannesburg Stock Exchange (JSE) Limited, with secondary listings on the New York Stock Exchange (NYSE) and the Swiss Exchange (SIX).

The Agnew gold mine is an underground operation located 23km west of the town of Leinster in the northern Goldfields region of Western Australia. Gold Fields also owns and operates the St Ives and Granny Smith mines in Western Australia. Gold Fields is also the manager and operator of the Gruyere gold mine in Western Australia, which is a 50:50 joint venture with Gold Road Resources.

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