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# MEDIA RELEASE

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## **Pacific Energy delivers Australia's largest off-grid hybrid power system to Tropicana gold mine**

Pacific Energy has successfully completed a significant renewable energy expansion of its power system at Tropicana gold mine in Western Australia. The hybrid power system, delivered under a new 10-year build-own-operate agreement, commenced commercial operations on February 7, 2025.

The project, which adds 61MW of renewable energy to Pacific Energy's existing 54MW gas-fired power station, brings the total capacity to 115MW, making it Australia's largest off-grid hybrid system to power a mine.

Tropicana is owned by AngloGold Ashanti Australia Ltd (70% and manager) and Regis Resources Ltd (30%) and is located 330 kilometres northeast of Kalgoorlie in Western Australia.

The renewables expansion incorporates four 6MW wind turbines, a 24MW solar farm and a 13MW grid-forming battery energy storage system (BESS).

The integration of Pacific Energy's cutting-edge intelligent control solution, BESS and virtual synchronous machine technologies means assets can work in harmony to stabilise the 115MW system. This approach replaces legacy solutions like thermal-powered spinning reserve and synchronous condenser units, resulting in a state-of-the-art, technically advanced power system.

This combination of technologies also enables ultra-responsive hydrocarbons-off functionality, which can power Tropicana's mining operations using 100% solar, wind and BESS for extended periods of time.

The new facility is expected to reduce Tropicana's diesel and gas consumption for power generation by 96% and 50% respectively, slashing carbon emissions by an average of 65,000 tonnes per annum over the life of the agreement.

Pacific Energy's new wind-solar-battery facility will support AngloGold Ashanti's strategy to reduce its global net carbon emissions from energy use by 30% by 2030, as part of its roadmap to achieve net zero carbon emissions by 2050. It is the first of its kind to be implemented within the AngloGold Ashanti group.

Pacific Energy's Chief Executive, Jamie Cullen, said the system was already outperforming targets.

"The new assets have already generated over 38,000 megawatt hours of renewable energy, and that's mostly while we were still bringing the equipment online," Mr Cullen said.

"We're also on track to displace an average of more than 1,100 terajoules of gas with solar and wind generated power every year, and we expect to almost entirely displace diesel, which is now there purely for emergencies," he said.

"In real-world terms, these fuel reductions will reduce Tropicana's power generation emissions by upwards of 45%, which is equivalent to taking more than 14,000 cars off the road."

Mr Cullen said that despite encountering some significant challenges, including severe flooding during the construction phase, the project was delivered safely, on time and on budget.

“Our Tropicana project involved more than 200,000 onsite labour hours, so it’s only through careful planning and our team’s collective commitment to safety best-practices that we’ve delivered this in a live mining operation with zero lost time injuries and zero medically treated injuries. It’s something Pacific Energy and AngloGold Ashanti can be really proud of,” Mr Cullen said.

“AngloGold Ashanti trusted Pacific Energy to deliver an outcome that’s aligned with their net zero strategy and their commercial and operational goals. We’re really proud to have achieved exactly what we committed to back in 2023, and to have integrated cutting-edge technologies that will continue to support their decarbonisation pathway for years to come.”

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[Watch our Tropicana project video here](#)

Images (please credit Pacific Energy):





## About Pacific Energy

Pacific Energy is an Australian market leader in the provision of sustainable distributed energy, operating for over four decades, with owned-and-operated assets at 46 sites nationally and 923MW of contracted capacity under management.

A trusted partner at the forefront of the clean energy transition, Pacific Energy is uniquely positioned to offer clients a complete in-house experience that delivers renewable and traditional power generation solutions from design, manufacturing and construction through to commissioning and operations and maintenance.

With unrivalled capability across all energy technologies, Pacific Energy has demonstrated experience integrating solar, wind, green hydrogen and battery energy storage into new and existing remote power systems, with an end goal to maximise efficiencies and minimise emissions.

Pacific Energy is headquartered in Perth, Western Australia and has operations in Kalgoorlie, Victoria, Queensland, the ACT, South Australia and the Northern Territory. It is owned by QIC, a globally diversified investment manager with more than A\$100 billion in funds under management.

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