

Rio Tinto to drive development of Australia's largest solar farm at Gladstone

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Rio Tinto will drive development of Australia's largest solar power project near Gladstone, after agreeing to buy all electricity from the 1.1GW¹ Upper Calliope Solar Farm to provide renewable power to Rio Tinto's Gladstone operations.

The agreement will bring more renewable power into one of Australia's most important industrial hubs and marks another step towards Rio Tinto's climate goal of halving its global Scope 1 & 2 carbon emissions this decade². If combined with more renewable power and suitable firming, transmission and industrial policy, it could also provide the core of a solution to repower Rio Tinto's three Gladstone production assets - the Boyne aluminium smelter, the Yarwun alumina refinery and the Queensland Alumina refinery.

Under a new power purchase agreement (PPA) signed with European Energy Australia, Rio Tinto will buy all power generated from the Upper Calliope solar farm for 25 years. The plant will be built and operated by European Energy, at a site about 50 kilometres south-west of Gladstone, pending development and grid connection approvals.

Once approved and developed, Upper Calliope would have the potential to lower Rio Tinto's operating carbon emissions by 1.8 million tonnes per year.

Rio Tinto Chief Executive Jakob Stausholm said "This agreement is a first important step in our work to repower our Gladstone operations and illustrates our commitment to keeping sustainably powered industry in Central Queensland.

"The task remains challenging, but we have a pathway to provide the competitive, firming power our Gladstone plants need and we are continuing to work hard with all stakeholders, including the Queensland and Australian governments, on getting there.

"Competitive capacity, firming, and transmission, are critical to developing a modern energy system that can ensure more large-scale renewables development in Queensland and help guarantee the future of Australian industry."

Once approved, construction of the Upper Calliope plant is targeted to start in 2025 or 2026 and, when complete, it will provide enough electricity to meet about 5% of Queensland's current demand. The plant, which is expected to take two years to construct, will cover 2400 hectares, employ 1000 people during construction and support 100 direct and indirect jobs when operating.

European Energy CEO Erik Andersen said "European Energy is proud to be a strategic partner in this project with Rio Tinto. Our commitment to providing renewable and reliable energy aligns perfectly with Rio Tinto's ambitious climate goals. The Upper Calliope Solar Farm is not just a solar power project; it's a testament to our shared vision for a greener future.

"By supplying renewable energy to one of Australia's key industrial hubs, we are setting a new standard for industrial energy consumption. This project underlines our dedication to driving the transition towards renewable energy in Australia and demonstrates the potential of solar power in transforming the energy landscape of the region. We look forward to continuing our collaboration with Rio Tinto and other stakeholders to create a sustainable and energy-efficient future for Australia."

Upper Calliope is the first successful applicant in a formal [Request for Proposals](#) made by Rio Tinto for renewable power and firming projects in Central and Southern Queensland.

Rio Tinto continues to assess other proposals, solutions and partnerships to help competitively meet the energy needs of its three production assets in the Gladstone region. These assets require more than 1GW of reliable power to operate, which equates to over 4GW of quality wind or solar power with firming. Potential further electrification of plant processes could increase their electricity demand in the future.

¹ 1.1GWac or 1.3GWp

² From 2018 levels

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This announcement is authorised for release to the market by Andy Hodges, Rio Tinto's Group Company Secretary.

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