

Entura identifies 250 MW as optimal capacity for Kidston pumped storage

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The completed technical feasibility study for the [Kidston pumped storage project](#) revealed that 250 MW is the optimal size for this facility in terms of capacity, with six hours of continuous generation.

This arrangement would provide a total of 1,500 MWh of energy storage capacity, says power and water consulting firm Entura, which completed the study for plant developer Genex Power Limited.

The study concluded that all of the key risks identified at the pre-feasibility stage, as well as any additional risks identified during the study, have been appropriately mitigated or addressed through detailed design augmentation and optimization undertaken by Entura and project partner HydroChina, a press release says.

“Following a thorough investigation, a preferred configuration has been determined and the project is now fully designed from a technical feasibility perspective, including the

civil works program and detailed mechanical equipment specifications,” says Michael Addison, managing director of Genex.

A number of project size options, from [200 MW to 450 MW](#), were investigated during the technical feasibility study, Entura says.

The next phase of the project development process involves undertaking formal competitive tendering processes. There is a critical need for large-scale energy storage at an affordable cost in Australia, a press release says, to balance the penetration of large-scale renewables into the country’s National Electricity Market.

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