

Thermal energy storage brazil

ISO CTEEP claimed it as the first large-scale battery energy storage system ...

A 30MW battery energy storage system has been inaugurated by transmission ...

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Australian startup MGA Thermal has bagged around US\$1 million in government funding for a 5MWh thermal energy storage project while Israel-based Brenmiller Energy has inaugurated a 1MWh unit in Brazil.

Brenmiller and Fortlev, a Brazilian manufacturer of water tanks, pipes, and water connections, have inaugurated the bGen thermal energy storage unit at the latter's production facility in Anápolis, Brazil.

The bGen system will allow Fortlev to use renewable biomass instead of natural gas to heat the air it uses to manufacture plastic water tanks, reducing fuel costs by 75% and lowering greenhouse gas emissions by 800 metric tons a year.

The company said it is the first thermal energy storage system powered by renewables to be put into commercial operation in South America, and the first anywhere to generate hot air for manufacturing plastic products using renewable power.

Although the project with Fortlev does not appear to do so, the bGen system is designed to charge by harvesting waste heat from a factory's chimney system using an insulated ducting system. The storage system comprises a modular rock-based design with a thermal capacity of between 1 and 1,000MWh for each unit.

It can also discharge electricity using a steam turbine system with a startup time of five minutes-plus.

Avi Brenmiller, chairman and CEO of Brenmiller Energy said: "Our bGen technology enables these companies to start using renewable energy resources and waste heat to efficiently produce clean steam, hot water, and hot air on-demand, allowing them to decarbonize their thermal process - and in some cases, like Fortlev, reduce their fuel costs while doing so."

In a piece of concurrent news, Australia-based company MGA Thermal has been awarded AU\$1.27 million (US\$0.9 million) from the Federal Australian Renewable Energy Agency (ARENA) to fund its pilot thermal energy storage solution.

The money will help fund the creation and installation of a 500kW/5MWh storage prototype to demonstrate the generation of steam from stored thermal energy, which is expected to cost a total of AU\$2.85 million. The



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company expects it to produce performance data and a tangible demonstration of the technology for potential customers.

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