

# Energy storage for renewable energy south ossetia

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The standalone battery energy storage system (BESS) will have a 150 MW / 300 MWh capacity and will support energy security and reliability as renewable energy supply increases, pacing South Australia's ongoing energy transition. The order was booked in September 2024.

The project will be built with Wartsila's Quantum High Energy storage technology, recognised for its advanced safety features and enhanced energy density. The system will support essential grid services, including frequency control ancillary services, fast frequency response, and energy arbitrage to enhance grid flexibility and stability. It will also use the GEMS Digital Energy Platform, which conducts intelligent power control and optimised energy management operations.

This project follows Wartsila's first successful BESS deployment in South Australia in 2023 and becomes the company's fifth energy storage project in Australia, demonstrating Wartsila's growing footprint in the country. Construction of Bungama BESS stage 1 is expected to start in October 2024, with a targeted commercial operation date in the first quarter of 2026. Wartsila will provide a long-term service agreement for the project.

Amp Energy, headquartered in Canada, is expanding Wartsila's customer base. "We are thrilled to work with Amp Energy on this critical project," says Andrew Tang, Vice President of Energy Storage and Optimisation at Wartsila Energy. "This collaboration further demonstrates our commitment to advancing the region's transition to a cleaner, more resilient energy grid, and supporting South Australia's vision to achieve 100% renewable energy by 2027."

"Across our multi-gigawatt portfolio in Australia, Bungama BESS stage 1 is the first of our energy storage projects to reach this important milestone. We are pleased to partner with Wartsila on this project and value the company's strong local track record of delivering high-performance energy storage solutions, proven reliability, and expertise in supporting customers throughout the delivery phase and into operations," says Daniel Kim, President of Australia at Amp Energy."

Wartsila has extensive experience in the Australian market and has partnered with local contractors for efficiency and strong results. Bungama BESS stage 1 will be executed in close collaboration with Balance of Plant (BOP) contractor Enerven and will be the fourth project where Wartsila has partnered with Enerven.

"South Australia is where it all began for Enerven, and this project is a tremendous opportunity to showcase our capabilities locally alongside strong partners that share our dedication to the growth of BESS in the region. With five battery projects now under construction across the country, Enerven is establishing itself as a key contributor to the growth of Australia's energy storage market," says Enerven CEO Richard Amato.

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Wartsilä in brief Wartsilä is a global leader in innovative technologies and lifecycle solutions for the marine and energy markets. We emphasise innovation in sustainable technology and services to help our customers continuously improve environmental and economic performance. Our dedicated and passionate team of 17,800 professionals in more than 280 locations in 79 countries shape the decarbonisation transformation of our industries across the globe. In 2023, Wartsilä's net sales totalled EUR 6.0 billion. Wartsilä is listed on Nasdaq Helsinki.

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Coupling energy storage with renewable energy provides stability services and emergency back-up power if a shortfall in energy is predicted. This helps overcome intermittent power generation (i.e. solar power is only generated when the sun shines), and can provide energy when it is needed.

The Government of South Australia supports energy storage projects through programs and funding. The \$50 million Grid Scale Storage Fund and South Australia's Virtual Power Plant are key components of the South Australian government's energy policy.

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