

Phillip Island Battery

The foundations for a significant transition to clean locally generated energy.

The plans for the Phillip Island Community Energy Storage System (PICES) will offer greater reliability in electricity supply for the Island, especially during peak holiday periods and provide a new world of renewable energy opportunities.

The PICES will be a permanent installation on the island and will mainly address the need for peak supply during summer and improve the resilience of supply in summer while also being available at other times for other network, market, or community services. This can lead to an improvement in the consistency and reliability of the electricity on the Island. We also plan for this battery to enable new technologies and trials and increase the solar capacity on the island.

Working with the community

Under the current proposal, AusNet Services and Mondo are working with community groups Totally Renewable Phillip Island (TRPI) and the Energy Innovation Cooperative (EI Coop) to understand how a community battery will create value for the residents of Phillip Island.

In June 2018 Totally Renewable Phillip Island (TRPI) was formed during a public forum attended by more than 200 people. At that gathering, a unanimous decision was made to set a target for 100% renewable energy and to be net-zero carbon by 2030. Mondo was also pleased to contribute to that gathering. Since that time, the member groups have worked hard to action that ambition with many renewable and carbon focused activities related to soil carbon, storage, active transport, waste minimisation and efficiency.

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“Mondo is excited to be supporting the design of the future of energy for the residents of Phillip Island and believes in the value of distributed energy resources to support the creation of new energy eco-systems for customers and communities alike.”

JODIE HALLAM General Manager,
Energy Services, Mondo



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ADVERTISED PLAN

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Phillip Island's first battery energy storage system.

The plans for the Phillip Island Community Energy Storage System (PICESSE) will offer greater reliability in electricity supply for the Island, especially during peak holiday periods and provide a new world of renewable energy opportunities.

AusNet and Mondo are focused on innovative new technologies to provide network reliability and resiliency for communities. Mondo won the right to deliver this innovative solution for AusNet through a competitive tender process.

It is anticipated the PICESSE 10MWh Lithium-Ion Phosphate battery will form the foundation for a future energy ecosystem of locally generated electricity and support the 100% renewable energy targets and zero-carbon plans for both the Bass Coast Shire Council and the community.

What type of battery

The planned battery will be a 10 Mega Watt-hour (MWh) lithium iron phosphate (LFP) battery energy storage system. This technology is becoming an increasingly popular choice for energy storage systems which place an emphasis on cycle life and cell stability.

Working with local Council

Bass Coast Shire Council (Council) is an important partner in the development of the battery and is participating in the planning process for the PICESSE. Further, discussions are underway to secure the proposed battery site on the northeast corner of the land recently purchased by Council along Gap Road and some 500 meters from Wimbleton Heights.

Who's providing the battery

Hitachi ABB Power Grids will be providing the battery energy storage equipment for the PICESSE. Hitachi ABB Power Grids are an experienced equipment supplier that has been providing battery storage solutions in Australia for over 30 years/since 1990, with over 500 MW and 200 sites installed globally.

Mondo with TEC-C as a delivery partner will manage the delivery/implementation of the battery solution.

TEC-C are experienced in the safe and timely delivery of High Voltage renewable projects with previous experience with batteries, university microgrids, and solar farms.

So, what's happening next?

Responsibility for the planning approvals for the battery falls to the State. The application has been submitted to the Department of Environment, Water, Land and Planning and includes studies and reports that examine:

- Ecological and visual impacts,
- Specific Cultural Heritage,
- Fire and bushfire plans,
- Site groundwater movements,
- Acoustic (noise) considerations,
- Geo-technical studies.

Where will the battery be located?

Currently it is proposed the battery will be installed about 500 meters along Gap Road heading from Phillip Island Road. This land is a newly purchased property owned by Council and the subject of ongoing Master Planning process.

How long will the battery last?

It is anticipated the battery will provide services to the community of Phillip Island for 10 to 15 years and will help balance the fluctuating power demand on the Island and support an increase in the uptake of renewable energy. Delivery timelines suggest the battery will be energised in the 3rd quarter of 2022 and require a period of testing to ensure it is responding well to requests for network services.

Will the battery provide power to the Island when the supply from the National Energy Market network experiences an outage?

The battery will not provide power to the network when an outage occurs. Instead, the battery will provide short term performance improvements to the electricity supply. This service is particularly important during peak holiday periods, especially when there is hot weather.

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