



Energy storage for microgrids vanuatu

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Vanuatu is a Western Tropical Pacific archipelago of 83# islands (60# inhabited) across ~1300km, located ~1800km ENE of Australia. Population is ~327,000. Port Vila is the capital located on the island of Efate.

Less than 20% of the rural households and ~60% of urban households are connected to an electrical grid which means ~200,000-250,000 people may have energy challenges.

In 2020, up to ~75% of the electricity was supplied by imported diesel at high tariffs. More affordable electricity from indigenous sources would support economic development.

Vanuatu formed along the converging Australian and Pacific Plates. A fractured, volcanic island arc over 1200km long, it has multiple active volcanoes and many other volcanic structures, some with existing heat flows demonstrated by hot springs. A map of known Geothermal areas is shown below:

The proposed Vanuatu Geothermal Project will have several project phases including some of the activities listed below (but not limited to this selection):

- o Aerial surveys (i.e., LIDAR, visual, thermal)
- o Geological field survey updates
- o Geophysical field surveys updates
- o Surface surveys (topography, drilling location and flowline route surveys)
- o Appraisal Wells (shallow boreholes/slim hole wells, production/injection testing)
- o ESIA updates (exploration, drilling, construction and installation of power generation facilities and transmission line facilities)
- o Front End Engineering Design (FEED)

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