

Palau renewable energy storage

IRENA, working with the government, has developed Republic of Palau: ...

The project will install a total of 15 megawatt hour battery energy storage system (BESS), which will enable the grid to increase the utilization of outputs from the solar photovoltaic power plant and provide grid services to Koror-Babeldaob grid to equip Palau Public Utilities Corporation (PPUC) with tools to optimize the use of renewable energy. Protection systems will also be upgraded to reduce the frequent blackouts of the grid system, especially with the expected increase of outputs from the solar photovoltaic power plant. The project also includes a pilot vehicle-to-grid project, as a future option for further optimization of renewable energy generation.

Energy / Energy utility services

PPUC plans to install a BESS in its grid system to achieve this goal. Reducing curtailment is critical to optimizing PPUC's operational efficiency because of the take-or-pay arrangements in the power purchase agreement. In addition to BESS, the government plans to make better use of IPP-1 generation capacity with an introduction of vehicle-to-grid (V2G) solutions. As a small island nation with limited demand for equipment necessary for V2G, a public sector pilot initiative is needed to test and showcase the effectiveness of V2G solutions.

Greenhouse gas emission from Palau's energy sector is reduced.

Renewable energy utilization increased.

Battery energy storage systems and energy management system installed.

Grid protection system upgraded.

Vehicle-to-grid concept piloted.

Capacity building support provided.

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