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Dubbed ARMONIA, the microgrid will consist of a 45MWh energy storage system, 35MW of solar energy generation and diesel generators to give the Palau grid system an overall installed power of more than 100MW. Construction should begin by the end of 2018, with commissioning taking place before the end of 2019.

Many island nations such as Palau are reliant upon diesel-powered electricity, but this new 100 MW microgrid will incorporate renewable energy and energy storage to create a smart and integrated...

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A \$53.2 million minigrid was commissioned on Niuafu'ou, Tonga's northernmost island, to provide clean, reliable power 24 hours a day. In Micronesia, Yap island seeks bids on a 79 kW solar plus storage minigrid system.

We'll be studying how to bring mini-grid power to Walung and how to use renewables to improve the main

grid on Kosrae, as well as support their state and national goals for the use for renewable energy. Finally, in Chuuk, we expect to be developing entirely off-grid microgrid solutions for many of these small islands.

The system, known as "Armonia", will include existing diesel generation alongside up to 35MW of solar, for which land has already been secured, and up to 45MWh of battery storage. On completion the Palau grid will then have an installed power capacity of 100MW and renewables will account for more than 45% of the country's demand.

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Battery Storage applications served with the purpose of peak shaving, solar energy smoothing, frequency regulation, and back-up emergency power for the island locations. The Micronesian government sought out PV and BESS for a grid-tied solution to support (PCU) Micronesia's power supplier.

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