



Majuro school energy storage

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Majuro Cooperative School undertook an innovative Solar project in 2021 with 4 outcomes:

- 1) Supply and installation of a 5.6kW Solar system to power 4x 18,000BTU Solar Hybrid Air Conditioner units for Classrooms at Pre-K, Kindergarten, Grade 1, and Grade 2.
- 2) Supply and installation of a Solar Water Desalination unit with a capacity of 125L per day, sufficient for around 65 students per day.
- 3) Supply and installation of a Solar water pumping solution to provide a reliable source of water for restrooms even in cases of power outages.
- 4) Retrofitting classroom lighting to LED ceiling lights.

The photos below are of this project

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Majuro Cooperative School received a United Nations Development Program grant to implement a solar project aimed at solving several of the school's needs, including reducing its power bill.

"With aims of cost-cutting we are proceeding with converting the first elementary block completely to solar power with MEC lines as a backup," said Majuro Cooperative middle and high school Principal Kenneth Fernando. "All four classrooms including lights, outlets, fans and air conditioners will be powered by the solar system. In addition to the classrooms, the restroom pumps will also be powered by solar to have continued facility services during power outages."

The project is being implemented in three stages. Staff and board members got together earlier this month to break ground for the launch of phase one.

Part of the phase one system is a desalination system which can produce clean drinking water, said Fernando. "Our staff will have access to water foregoing the need to purchase water," he said. "This will also assist in times of drought so we are certain our staff will still have access to clean water just outside their apartments." The desalination unit will also provide water for the high school classroom water dispensers and Coop sports events held at the gymnasium.



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Web: <https://kary.com.pl/contact-us/>

Email: energystorage2000@gmail.com

WhatsApp: 8613816583346

