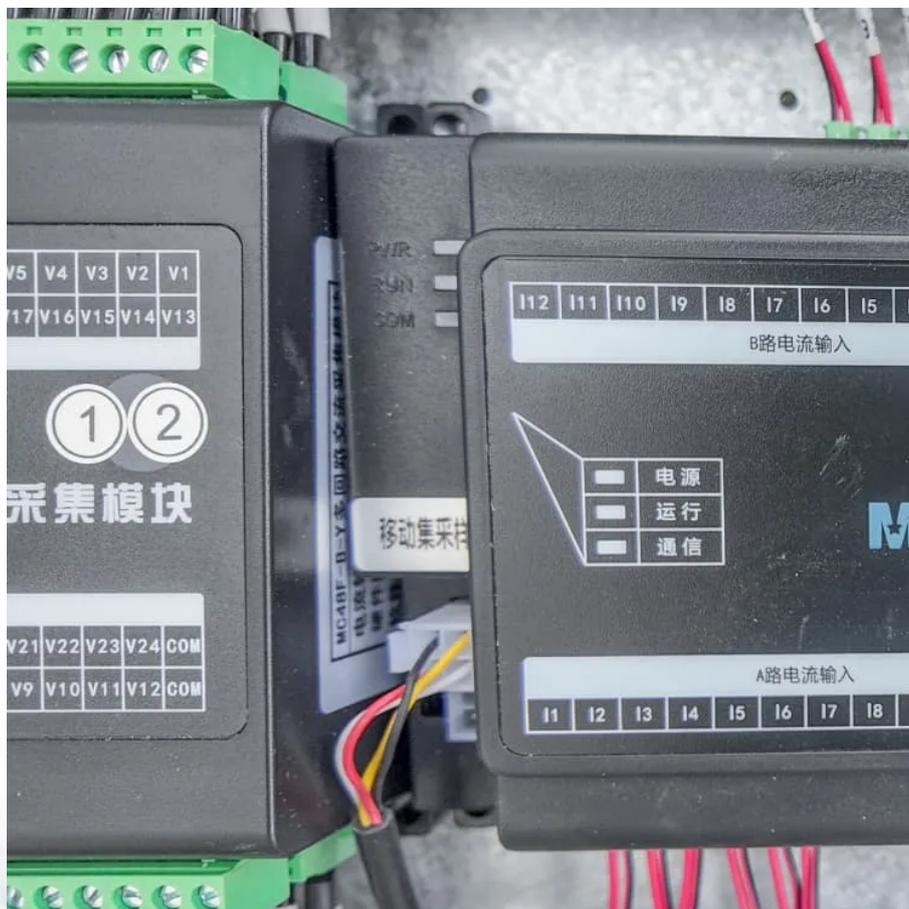


Off-grid cost of containerized photovoltaic systems for islands in the United States





Overview

Is hybridizing diesel-based power supply generation a viable solution for off-grid electrification?

The project demonstrated that hybridizing diesel-based power supply generation in small islands in the Philippines is a viable solution for off-grid electrification. With the Philippines having 7,641 islands, numerous smaller islands are beyond the reach of electricity grids. The project yielded multiple benefits.

Is the private sector interested in off-grid electrification?

While the country's electrification status reached 91.1% as of June 2023, around 6.13 million households remain unserved, of which 1.29 million are in off-grid areas. The Malalison project affirms that there is private sector interest in off-grid electrification.

How many kilowatts does a Malalison island solar power plant produce?

The Malalison Island solar photovoltaic hybrid power plant consists of a 50-kilowatt photovoltaic system with 273-kilowatt-hour lithium-ion batteries and a 54-kilowatt diesel back-up generator designed to produce 200 kilowatts power, around the clock. Photo credit: Courtesy of the Energy Sector Office, ADB.

How has energy access changed life on the island?

Daily life is now easier and more comfortable on the island as better energy access has lifted living standards and livelihoods. With electricity always available, households can run appliances for longer periods, reducing household chores.



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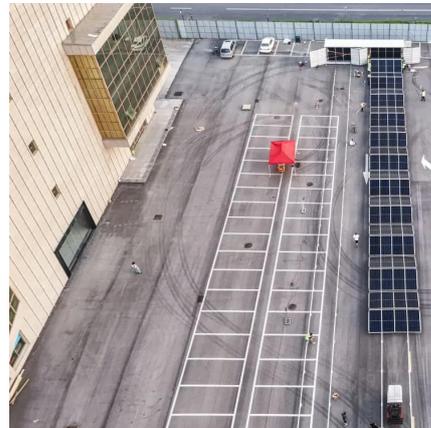


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