

## ContainerPower Energy Solutions

# British island solar power generation for home use



## Overview

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How does Peter Island generate electricity?

The outer islands already use renewable resources to produce energy. Peter Island generates 70% of its electricity from two Wind Energy Solutions hybrid turbines rated at 250 kilowatts (kW) each, backed-up by diesel generators. Cooper Island generates more than 75% of its electric needs from solar PV and uses solar water heating.

Does Cooper Island use solar energy?

Cooper Island generates more than 75% of its electric needs from solar PV and uses solar water heating. Virgin Limited Edition has proposed building a resort on Moskito Island with enough renewable energy generation to make the site carbon-neutral.

Does the BVI have solar energy?

Based on renewable energy resources for proximate island nations, the BVI is estimated to have developable solar and wind resources, although no specific values have been published. In September 2014, BVIEC held a solicitation for companies to develop roughly 2 MW of solar photovoltaic.

Could distributed energy resources boost the deployment of renewables on islands?

Distributed energy resources – or small-scale energy resources that are usually situated near sites of electricity use, such as rooftop solar – could play an important role in boosting the deployment of renewables on islands, increasing the security, resilience and affordability of power systems while accelerating decarbonisation.

Why do small islands need a new energy infrastructure?

Islands – including those that make up the group known as Small Island Developing States (SIDS) – also need to upgrade their energy infrastructure so

that it is resilient to higher temperatures, more frequent natural disasters and flooding related to rising sea levels.

How much does electricity cost in the BVI?

The 2015 electricity rates for BVI are of \$0.16 to \$0.24 per kilowatt-hour (kWh), lower than the Caribbean regional average of \$0.33/kWh. Like many island nations, the BVI is almost 100% reliant on imported fossil fuels for electricity generation, leaving it vulnerable to global oil price fluctuations that directly impact the cost of electricity.

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