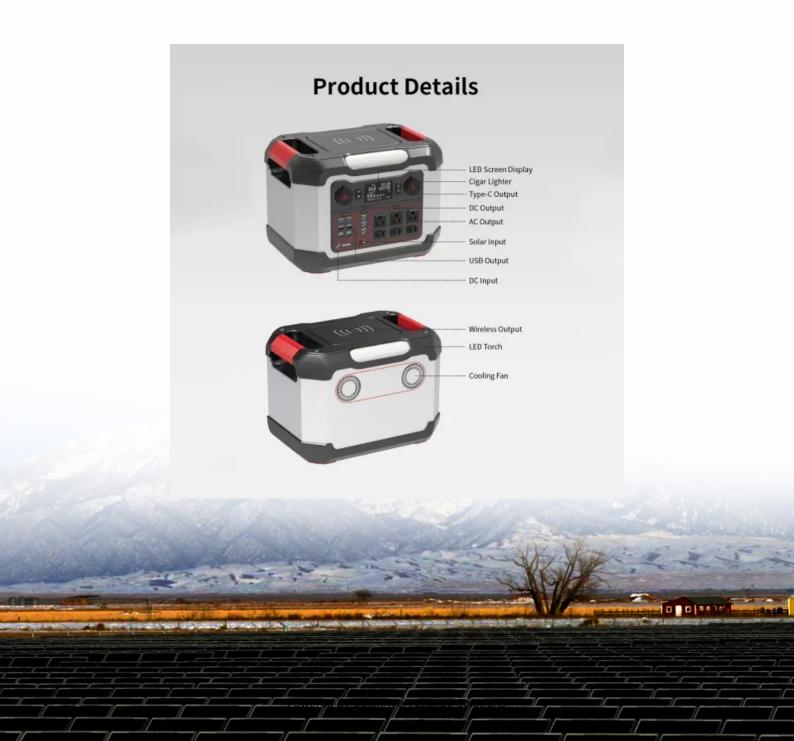


SolarInvert Energy Solutions

How much does the energy storage equipment cost in Port Vila





Overview

How can ports reduce energy costs?

ESSOP has explored two ways in which ports can minimize their energy costs by using energy storage: • Optimising how to use PV solar generation to offset grid electricity. The wholesale price of energy varies every half-hour, and on a time-of-day tariff this variation is passed onto users.

How can port energy systems be integrated?

Integration of port energy systems. Port clustering allows different energy systems (conventional and alternative) to operate independently, resulting in better integration between supply and demand. This allows for an energy trading system where energy surpluses could be traded between suppliers and users within the port community.

What is a shore power facility?

Shore power facilities will generally form part of a wider port energy network including electric power for port assets and back-up power generators. Ports that have a high-power grid connection (or could upgrade their connection at reasonable cost) do have the option of supplying shore power directly from the grid.

Why is energy storage a critical port function?

Ensuring availability of these electrical resources to meet loads which are intermittent and uncertain is becoming a critical port function. It requires investment in multi-vector energy supply chains, energy storage in ports and their associated energy management systems.

How will port energy systems change the industrial ecosystem?

The transition of port energy systems will be accompanied by a corresponding shift in the port industrial ecosystem. Offshore wind power generation. Through the maritime interface, ports can access large coastal oceanic areas,



offering wind generation opportunities.

How do you manage energy at ports?

part of your operations. In this white paper, we've outlined three examples of approaches to managing energy at ports: impacting emissions through shore power connections; supplementing or replacing grid electrical connections with an on-site capability; and more effective knowledge and management of energy usa



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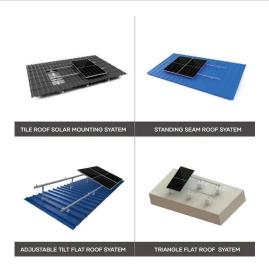
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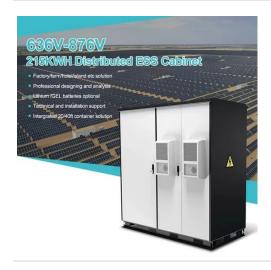
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