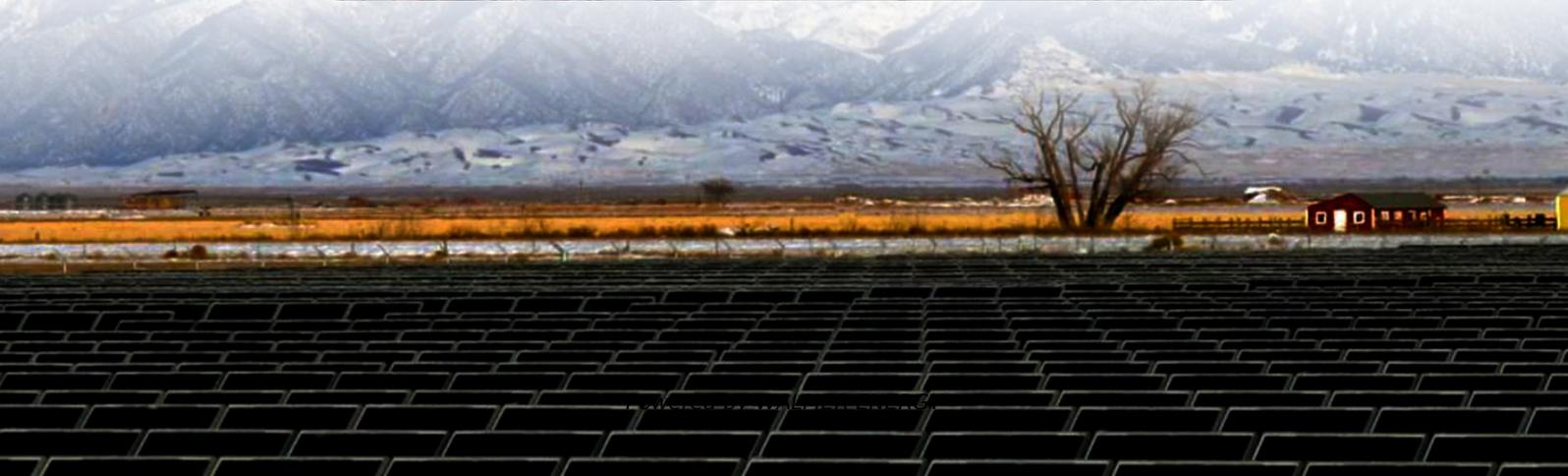
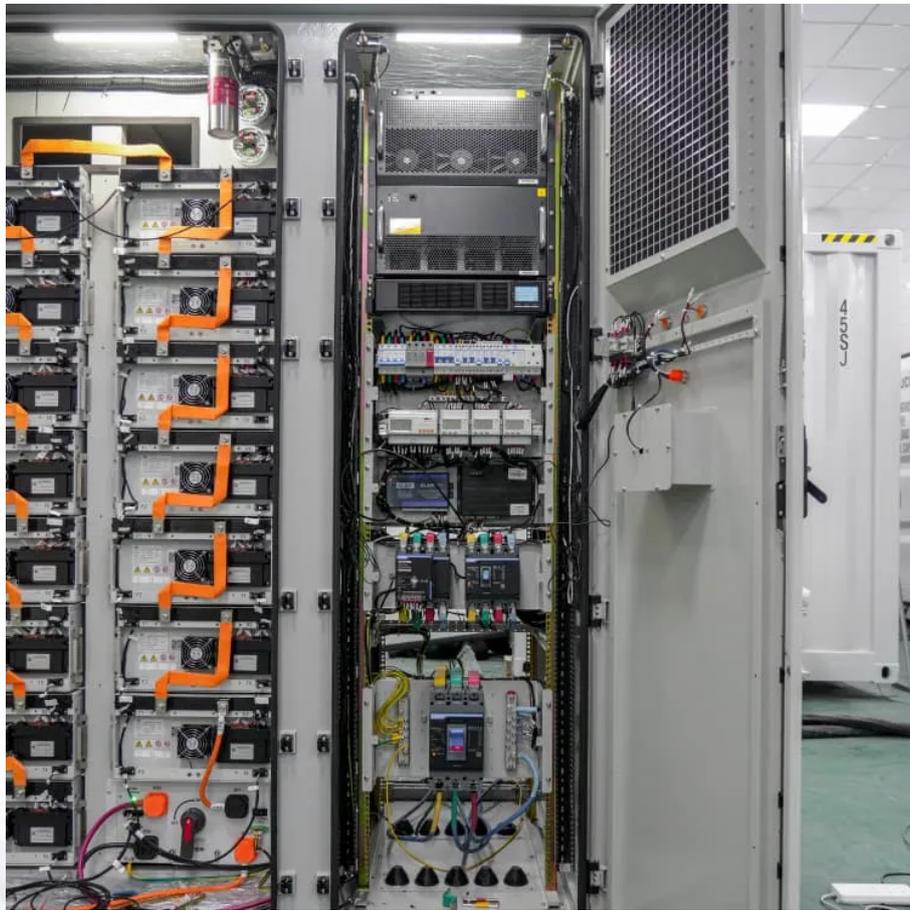


Port Louis imported solar container battery cost performance





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.

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.

Should a port use battery storage?

In many cases, however, battery storage will be beneficial: allowing the port to optimize its procurement of electricity under a time-of-day tariff, to reduce its peak load on the grid connection and to optimise use of on-site renewable generation, notably PV solar.

Are lithium-ion batteries a 'go-to' technology?

Storing energy, particularly in the form of electrical energy which is the form required for shore power and vessel recharging, is expensive. Although lithium-ion batteries are considered to be the 'go-to' technology, there are other types of battery chemistry which could become attractive.



Port Louis imported solar container battery cost performance

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