

# Recommendations for energy storage equipment in port of spain

How can ports reduce energy costs?

ESSOP has explored two ways in which ports can minimize their energy costs by using energy storage: o  
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.

What is long duration energy storage (LDEs)?

The 2023 NECP proposes a 173% increase (or 85 GW) in renewable capacity by 2030 from current capacities<sup>1</sup>; storage<sup>2</sup> is expected to increase by 487%, or 15 GW from installed capacity. Long Duration Energy Storage (LDES) can ensure renewable energy is utilised in the system while decreasing reliance on CO<sub>2</sub> emitting technologies



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