

# Price reduction for 30kW mobile energy storage containers used in ports and terminals





## Overview

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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.

Are automated container terminals energy-aware?

Recently, energy-aware studies gain attention in automated container terminals. A predictive control model is provided for balancing the throughput and energy consumption of a single QC with AGVs and ASCs . A hybrid automation representation is used to simulate the discrete-event and continuous-time dynamics.

What is energy-aware planning in ports?

The operational strategies cover methods that focus on energy-aware planning of operations in ports. The energy-aware planning aims to reduce energy consumption of equipment, reduce the processing time of operations, operate the equipment in non-peak hours, and optimize operations considering energy prices. 2.1.

How to reduce the energy consumption of a reefer container?

For example, reducing the idle in operations, energy-aware scheduling of equipment, slight postponement of duty cycles, reduction of simultaneous lifting, and limiting maximum energy use can also bring energy cost reductions. Similar to the equipment, a significant portion of the energy consumption comes from reefer containers in some ports.



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