

# Price reduction for 10kW energy storage containers used in ports





## 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.

What energy storage technologies can a seaport use?

Thanks to the rich energy sources, ports, especially large seaport integrated energy systems, can apply various energy storage technologies such as electric energy storage, thermal energy storage, natural gas storage, and hydrogen storage.

What is a new energy container truck?

New energy container trucks are one of the main equipment connecting the port and the storage yard. The truck transports cargo between the port and the yard while consuming a certain amount of energy, realizing the coupling between logistics and energy.

What is a green low-carbon port?

Under the background of 'carbon peak, carbon neutrality', port energy conservation and emission reduction are imminent. The structure of a green low-carbon port is complex, where the interaction and coupling between heterogeneous energy sources and between the energy system and logistics system are close.



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