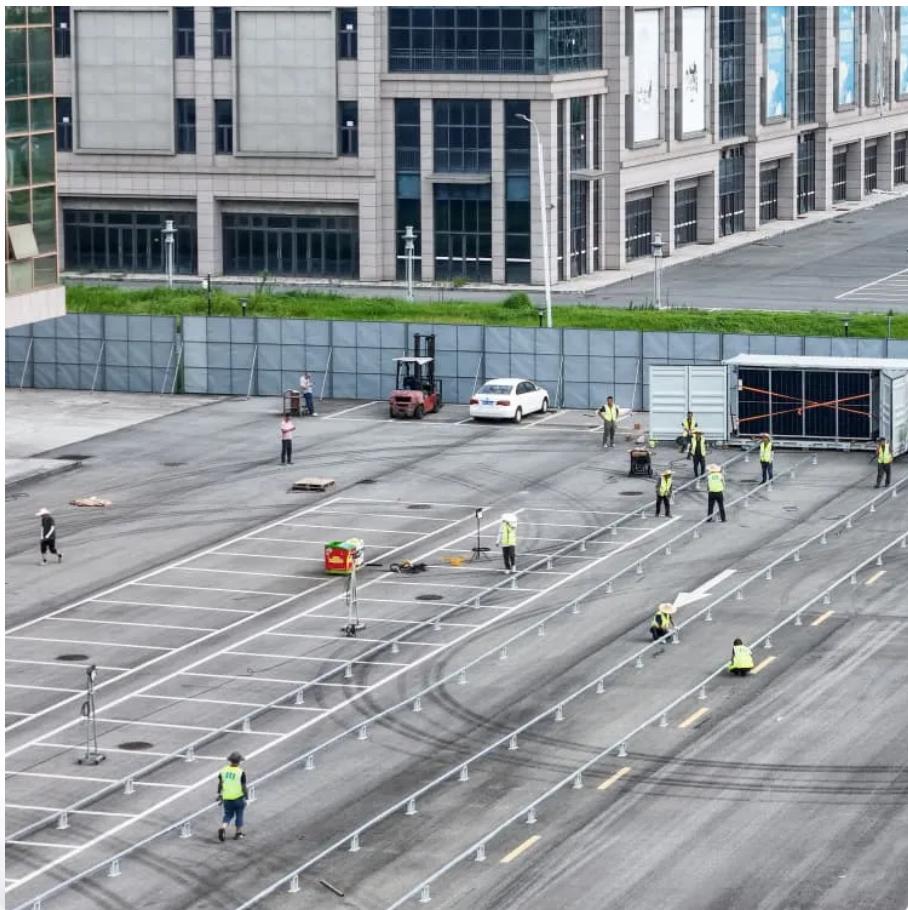




LLSE CONTAINERS

# Payment Method for 30kWh Energy Storage Containers at Port Terminals





## Overview

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How will the next generation ports use smart energy management systems?

The next generation ports will use automation, electrification and smart energy management systems. In this sense, roles of autonomous and/or electrified vehicles in smart grid should be further discussed for port operations. An intelligent energy planning system can be established by considering stochastic energy demand and supply. 5.4.

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.

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.

What is the energy supply for port operations?

The energy supply for port operations can be from fossil fuels, clean fuels including renewable sources. The energy can also be obtained from the grid in the form of electricity or it can be generated within the port. In this section, renewable energy and other clean fuels are assessed as the energy supply for ports. 4.2.1. Renewable energy



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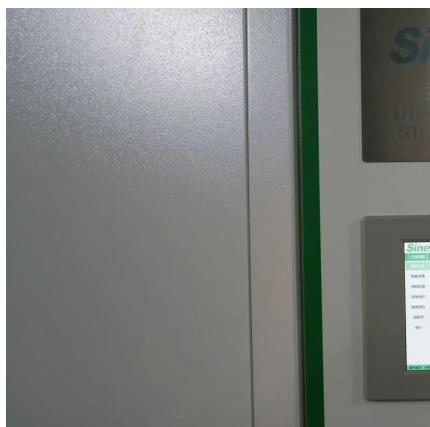


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