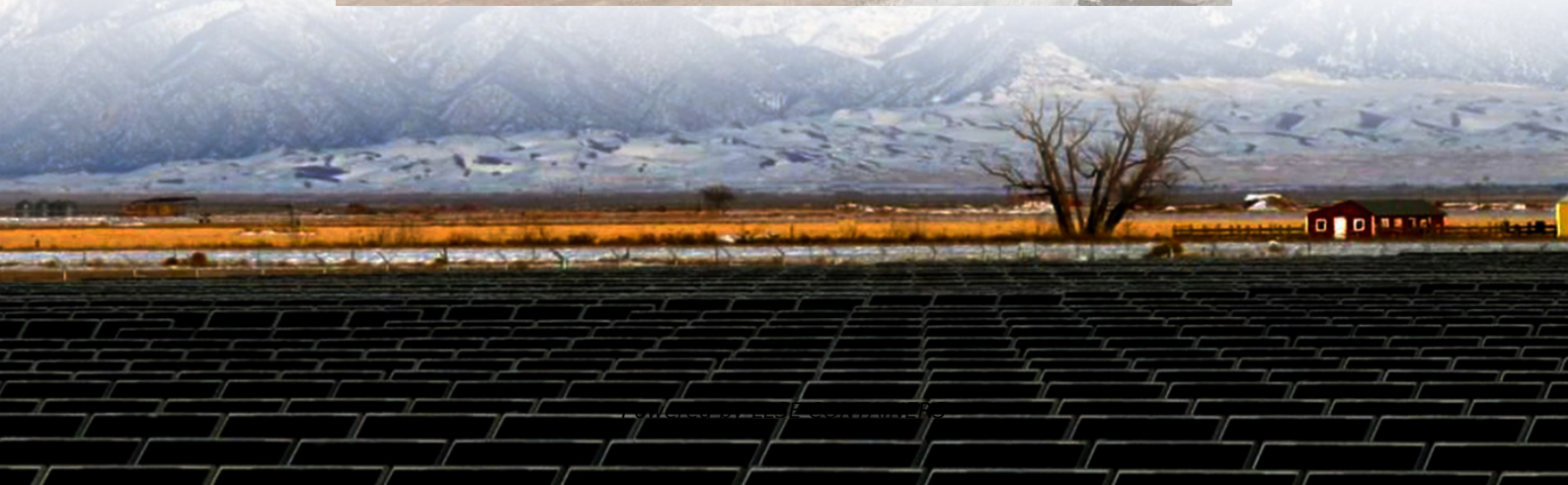


Bulk Procurement of 10MW Mobile Energy Storage Containers for Port Terminals





Overview

What is integrated energy system in a sustainable port?

This study focuses on an integrated energy system that involves wind energy, photovoltaic energy, hydrogen energy and energy storage in the sustainable port. The multiple energy sources are used to generate electricity to support container loading and unloading in vessels.

How can ports achieve sustainability needs?

Shifting from fossil fuels to clean and renewable energy is a promising strategy to achieve sustainability needs. Ports gradually introduces wind energy, photovoltaic energy, and hydrogen energy to generate electricity and support operational demand.

What is a sustainable port?

The sustainable port is free to choose to purchase electricity when generation is insufficient and sell surplus electricity. The complexity of decision-making in the port integrated energy system is heightened by the varying electricity demand from different equipment and the electricity generation from multiple energy sources.

Why does a port need integrated energy for loading and unloading?

Especially when the electricity demand of equipment is uncertain due to the uncertainty in container loads, the port has to rationally arrange the integrated energy to achieve the loading and unloading of containers on vessels.



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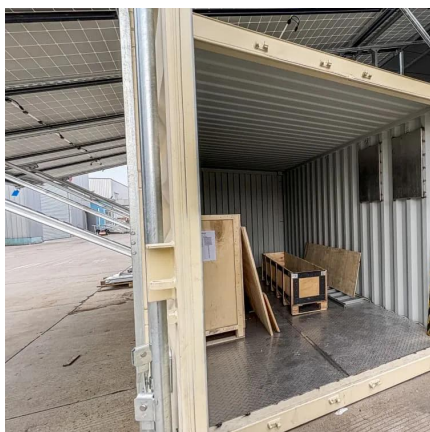
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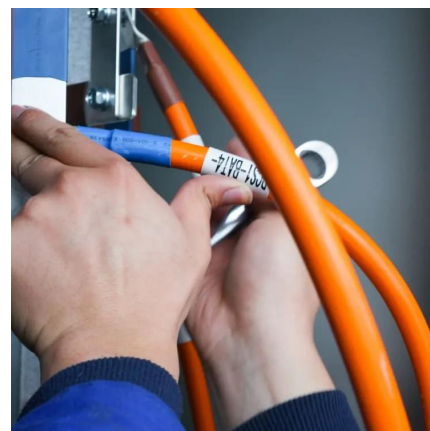
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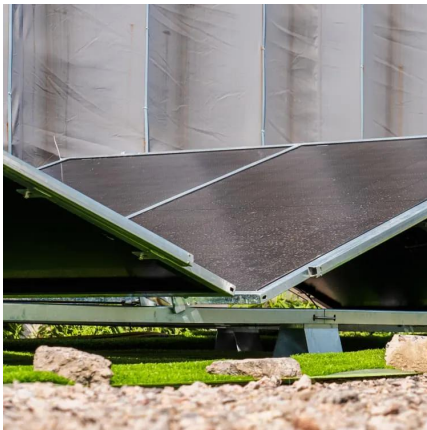
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