EQACC SOLAR

40kWh of collapsible containers for port terminals

Overview

How to electrify container handling equipment?

For electrification of container handling equipment and other port equipment, it is important to not only look at the investment costs and total costs of ownership, but it is also important to regard the electricity grid capacity within port areas. If this is not possible, contact with the electricity network operator is necessary on forehand.

How can ABB help a container terminal?

ABB has the knowledge, products and systems for helping terminal operators to build cost-efficient and reliable infrastructure that allows the terminal’s operational targets to be met. Terminal electrification solution content Electrical infrastructure is the backbone of a modern container terminal.

Can a container terminal switch to a full electric operation?

Based on a case study WSP (2023), a container terminal with 80% of its equipment operating on diesel can reduce over 30% of its GHG emissions if it switches to a full electric operation.

Why did NREL work with a container port?

NREL also collaborated with a container port, Port of Honolulu, that provided data for an electric ship-to-shore crane, personnel vehicles, and reach stackers. The container port also provided crucial operational data of the port, including container throughput and shift hours. NREL calculated the hourly energy consumption for each equipment type.

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Good Practices

Description Electrical power is essential in the shift to a more modern, efficient and sustainable shipping industry. More recently, port electrification has involved container ...

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Port electrification solutions

Solutions for container terminal electrification Cost-efficient and reliable electrification of container terminals from design to project execution - with ABB's domain expertise on container ...

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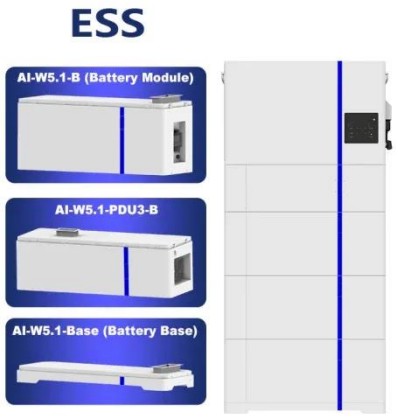

BSI-Container-40FT-500KW-2150kWh

The BSI-Container-40FT-500KW-2150kWh system is a robust and scalable industrial-grade energy storage solution designed to meet the demanding requirements of large-scale facilities. ...

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Compact Container Systems' "

SeaFold 40' " Collapsible ...

About Compact Container Systems COMPACT CONTAINER SYSTEMS, LLC ("CCS"): Founded in 2009 to develop innovative solutions to supply chain problems in the ...

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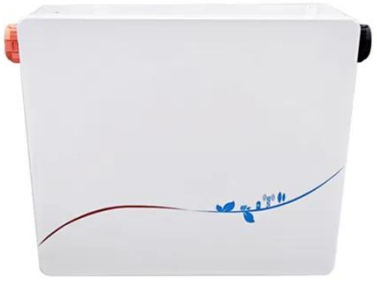

ENERGY STORAGE FOR PORT ELECTRIFICATION

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 ...

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Electrification for container terminals

Conclusion and Looking Ahead We select these four challenges of electrification for container terminals in this blog to highlight what we often hear from ports and terminals. To address ...

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FOUR QUESTIONS WHEN CONSIDERING AN ELECTRIC ...

For instance, terminals can pilot a single electric container handler or trial electric alternatives for some of their lower-

capacity equipment before transitioning additional units. ...

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Revolutionize Logistics with Collapsible Shipping Containers

Collapsible containers streamline logistics by minimizing the volume of empty containers transported. For example, Compact Container Systems claims that their SeaFold ...

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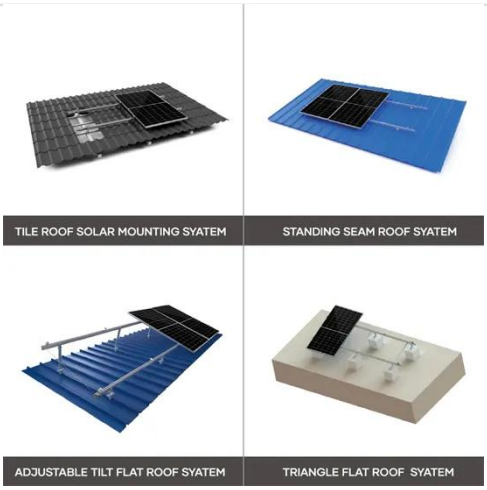

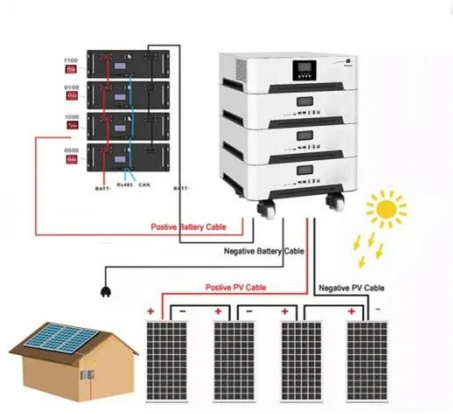

Electrification Analysis: Container Ports' Cargo Handling ...

Finally, we scaled the overall kWh/TEU for all equipment based on annual container throughput for the top-25 U.S. container ports to estimate the annual energy ...

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Greening container terminals: An innovative and cost ...

This research addresses the critical necessity for energy-efficient solutions in port operations. The primary objective of this paper is to introduce and assess the viability of an ...

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