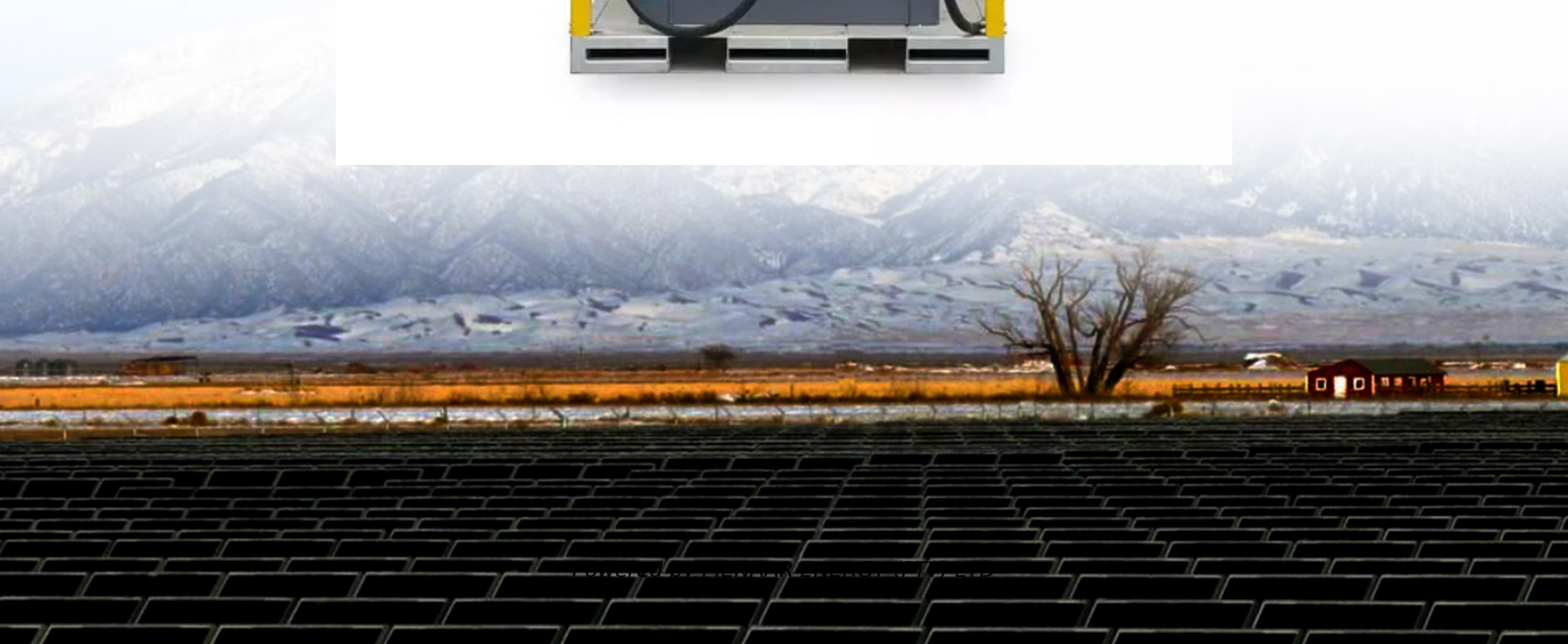


PIENAAR ENERGY (PTY) LTD

Price Reduction for Solar-Powered Container DC Transfer in Ports



Overview

In January and February 2020, container shipping companies were charging around US\$1,650 for 40-foot containers from Asia to Europe and around US\$3,000 to the West coast of the US, according to George Griffiths, global pricing specialist at S&P Global Platts. Phase 2 (2016–18): 5,000+ LEDs, high-efficiency chillers across bridges and terminals. ^7 Key Metrics: Phase 2 saves \$1.35 M/yr; \$27 M total over 20 yr; 3,000 t CO₂/yr; no upfront cost via ESCO performance contracts. ^7 Stakeholders & Funding: Port Authority of NY & NJ; Constellation Energy; state. While significant supply additions are upcoming, it is unclear if this will lead to a dramatic reduction in freight costs. What is clear, however, is prices will never come down to the triple digit level seen in early 2020, while a number of regulatory and geopolitical decisions could compound the. The Port Newark Container Terminal in New Jersey is now one of the few shipping hubs in the world to use on-site solar power to cut its own emissions (cropped; courtesy of Standard Solar). Support CleanTechnica's work through a Substack subscription or on Stripe. Dry and liquid bulk operations have been running on electrified equipment for decades, and the same applies to the naval defense sector with regards to providing vessels with shore power. Solar photovoltaic (PV) panels and Battery Energy Storage Systems (BESS) are a great opportunity to achieve decarbonization goals, as well as overall ESG goals for. Reduce energy waste and operational costs by delivering the right amount of power at the right time. This requires robust cybersecurity measures and, most importantly, a collaborative agreement among all stakeholders—from shipping lines to port authorities—to share data securely.

Price Reduction for Solar-Powered Container DC Transfer in Ports



1.Port Newark Solar Microgrid (Newark, New Jersey, USA; ...

Technology: High-voltage (6.6 kV/11 kV) shore power at 25 berths, enabling auxiliary engines off for container and cruise ships. ^4 Key Metrics: Up to 95 % reduction in NOx, SOx, PM per call; regional ...

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The Port Newark Container Terminal in New Jersey is now one of the few shipping hubs in the world to use on-site solar power to cut its own emissions (cropped; courtesy of Standard Solar).

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Cost of 100kW Solar-Powered Container Terminals at US Ports

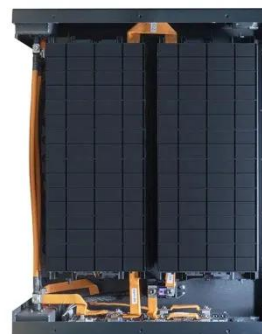
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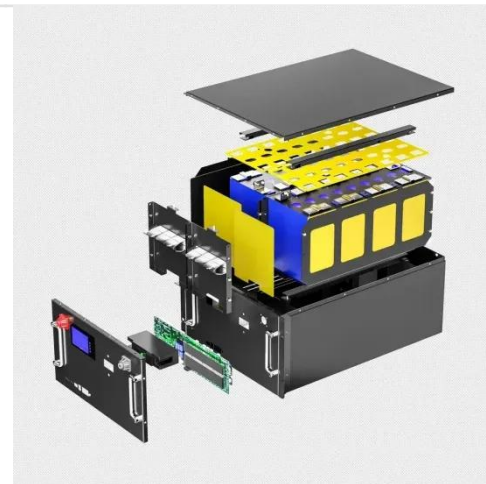
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