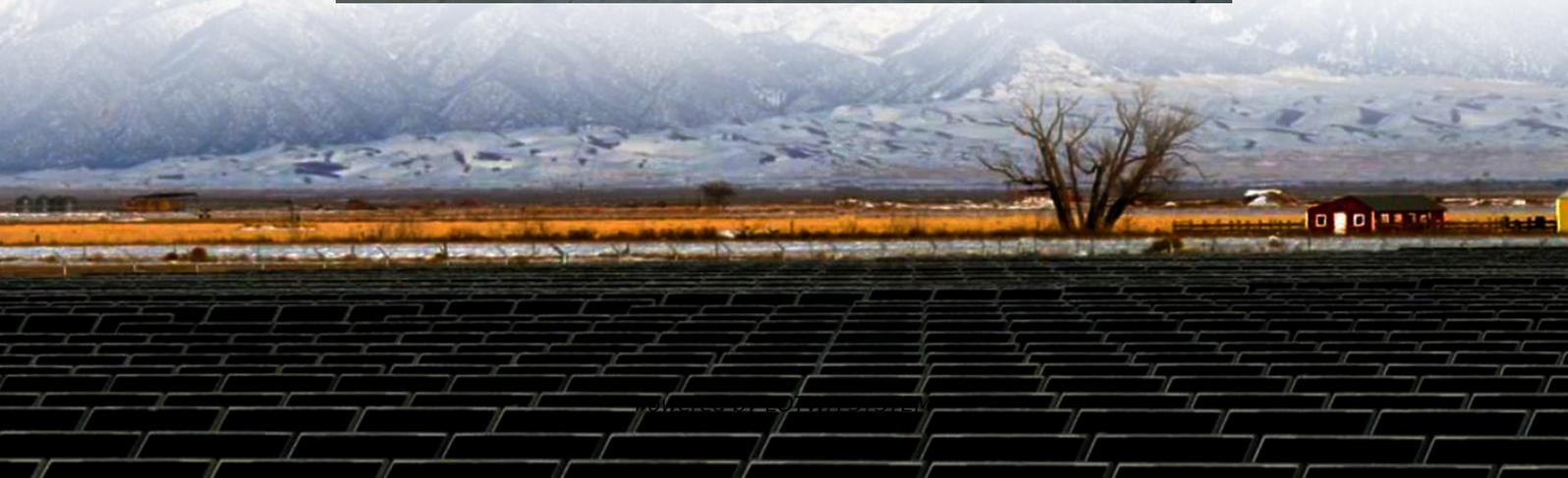
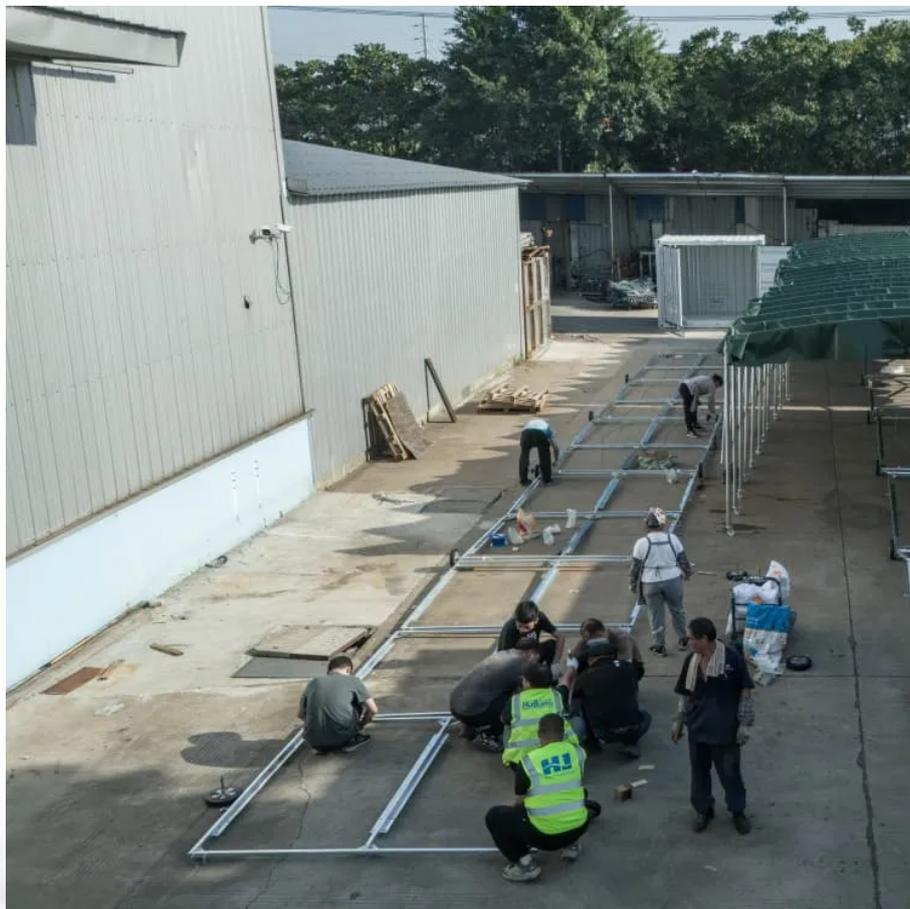


Price of grid-connected energy storage containers for Australian ports





Overview

What is a solar grid connection capacity?

- Grid connection capacity = 100kVA. The figures below show the battery behaviour in summer and winter, to observe the impact of seasonal PV solar variation. Performance of a system with 120kWp of PV solar capacity in Summer, showing the small amount of grid energy needed to supplement the solar power.

How many kWh are in a battery storage container?

Each battery energy storage container unit is composed of 16 165.89 kWh battery cabinets, junction cabinets, power distribution cabinets, as well as battery management system (BMS), and the auxiliary systems of distribution, environmental control, fire protection, illumination, etc. inside the container; the battery container is 40 feet in size.

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.

How can ports reduce the dependence on grid-supplied electricity?

To minimize the dependence on grid-supplied electricity, ports are also investing in renewable generation notably PV solar on warehouse roofing and parking areas. Energy storage is also needed to optimize utilization of in-port generation and avoid curtailment when generation exceeds the available demand.



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