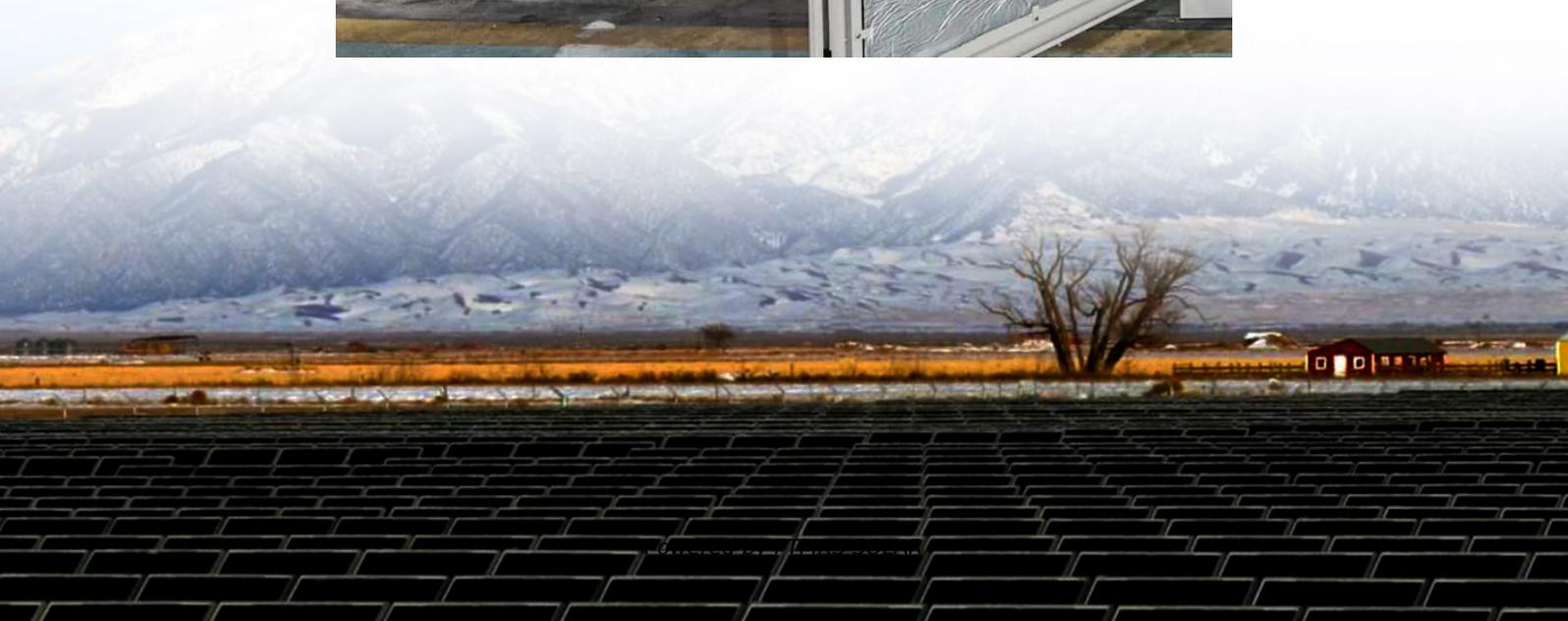
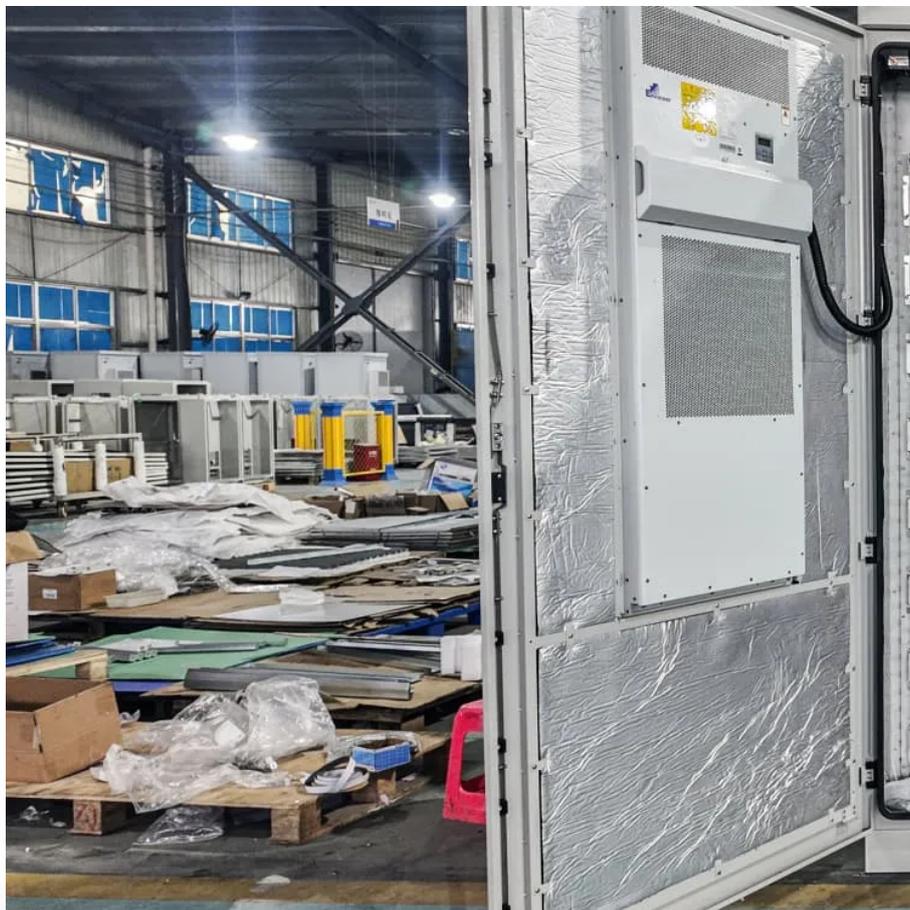


Nordic Sunshine Energy Storage Power Supply





Overview

What challenges does the Nordic power sector face?

The Nordic power sector, a global clean energy leader, faces new challenges as it enters the next phase of energy transition. Discover how the region is navigating rising electricity demand, complex risks and emerging technologies while striving to meet ambitious climate goals and ensure energy security.

Will the Nordics have a fully decarbonised electricity system by 2030?

The Nordics are expected to have a fully decarbonised electricity system by 2030. However, the energy transition is entering a new phase due to the penetration of renewables, price volatility and the increased need for flexibility and storage. Also, electrification is no longer limited to light-duty transport or residential heat pumps.

What is the future of Energy Management in Nordic countries?

Smart grids and digitalisation: The four Nordic countries have smart meter penetration exceeding 90%, enabling more efficient energy management and consumer integration. Virtual power plants (VPPs) are emerging to aggregate flexible loads such as EVs, heat pumps and industrial assets into dispatchable blocks, enhancing grid management.

Will Nordic energy demand double by 2050?

Renewable energy generation: Nordic power demand is projected to double by 2050, with onshore and offshore wind and solar becoming the dominant growth technologies. This structural transformation will require significant investments in capacity expansion and system integration.



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