

DC Installation Solution for Photovoltaic Containers in Japan





Overview

Is photovoltaic power generation possible in Japan?

In Japan, we are steadily approaching the establishment of a society where photovoltaic power generation is introduced on a mass scale, but various issues have emerged in order to realize such a society. This project will develop technologies to solve these issues.

Which country has a plug-in PV system?

Germany is currently the global frontrunner in plug-in PV. Systems under 800 W AC (2,000 W DC) can be installed without grid operator approval, provided the system is registered with the Federal Network Agency (MaStR, simple online registration). Reverse current into the grid is allowed, though usually not remunerated.

What is a DC-coupled Solar System?

DC-Coupled system ties the PV array and battery storage system together on the DC-side of the inverter, requiring all assets to be appropriately and similarly sized in order for optimized energy storage and power flow. Mid to large-scale solar is a non-reversible trend in the energy mix of the U.S. and world.

Does Hokkaido Electric Power Company require a stable supply of solar power?

As stipulated in its "Technical Requirements for Measures to Mitigate Output Fluctuations of Photovoltaic Power Generation Equipment", Hokkaido Electric Power Company requires solar power generation companies to provide a stable supply of electric power in order to minimize the impact on the grid.



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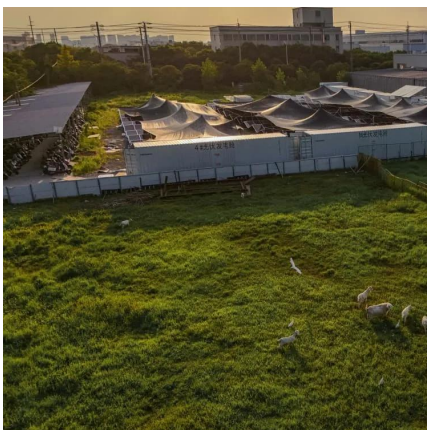


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