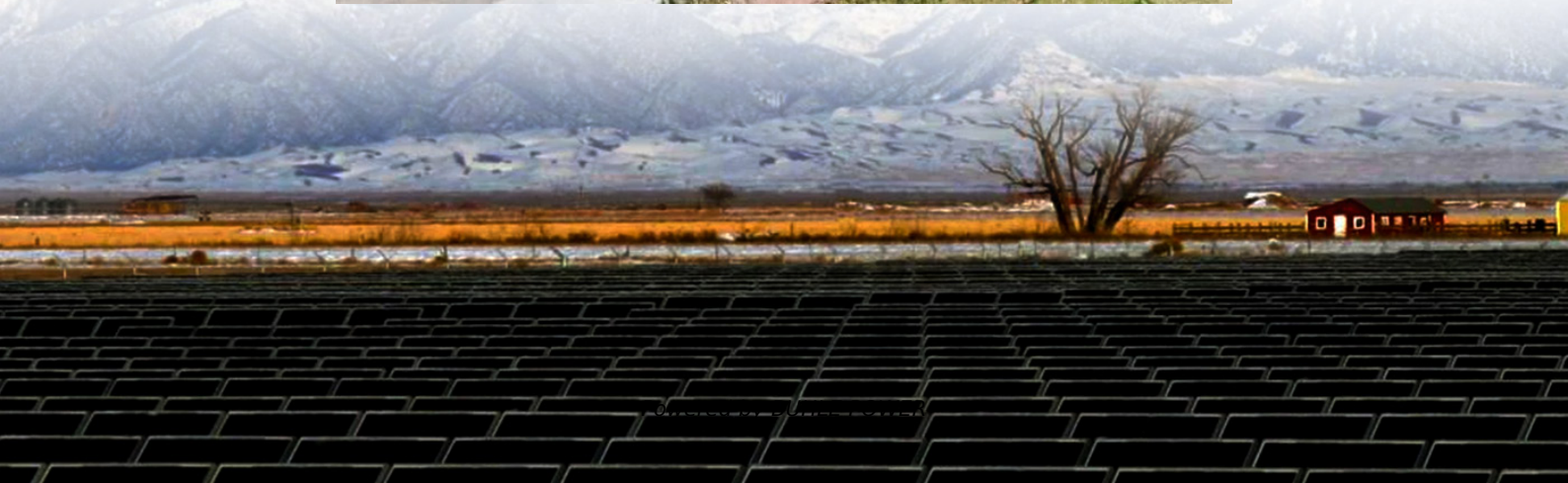


# **DC power distribution solar energy storage cabinet production**





## Overview

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### 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.

### What is DC distribution system?

DC distribution system for demonstrative test ■ EV quick charger (DC input)  
Assuming self-consumption of PV power by customers, the demonstration system uses diode rectifiers to connect to the commercial power system so as to simplify the control in comparison with bi-directional inverter inter-connection and reduce equipment costs.

### Why do we need a DC distribution system?

DC distribution systems have been identified for its stable power supply despite disturbances such as voltage dips and power outages in AC power systems. Moreover, standalone operation mode facilitates BCP measures and disaster control.

### Will DC distribution systems coexist with alternating current systems?

With increasing penetration of DC distribution systems, it is expected that the reduced energy losses with DC power to be a major driver for the use of DC equipment (DC loads). In the future, it is expected that the DC distribution system will coexist with the alternating current (AC) distribution system along with customer needs.



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