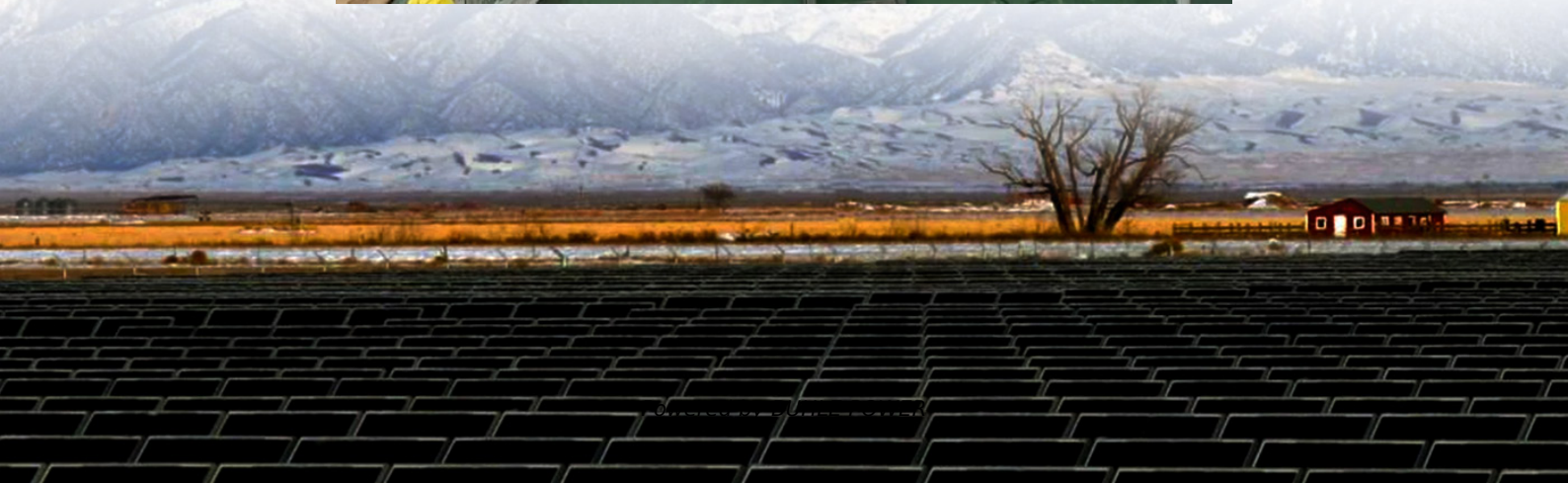


# **Long-life photovoltaic container for power grid distribution stations**





## Overview

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Should energy storage be integrated with large scale PV power plants?

As a solution, the integration of energy storage within large scale PV power plants can help to comply with these challenging grid code requirements 1. Accordingly, ES technologies can be expected to be essential for the interconnection of new large scale PV power plants.

What is energy storage container?

SCU uses standard battery modules, PCS modules, BMS, EMS, and other systems to form standard containers to build large-scale grid-side energy storage projects.

Are energy storage services economically feasible for PV power plants?

Nonetheless, it was also estimated that in 2020 these services could be economically feasible for PV power plants. In contrast, in , the energy storage value of each of these services (firming and time-shift) were studied for a 2.5 MW PV power plant with 4 MW and 3.4 MWh energy storage. In this case, the PV plant is part of a microgrid.

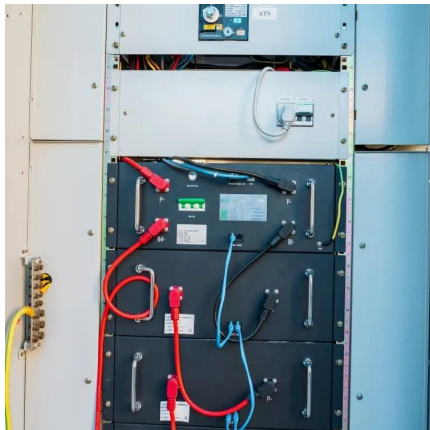
How much energy storage is required for PV power plants?

Knowing this amount of time and the required storage power, the energy storage capability can be easily obtained ( $P \cdot t$ ). To sum up, from PV power plants under-frequency regulation viewpoint, the energy storage should require between 1.5% to 10% of the rated power of the PV plant.



## Long-life photovoltaic container for power grid distribution stations

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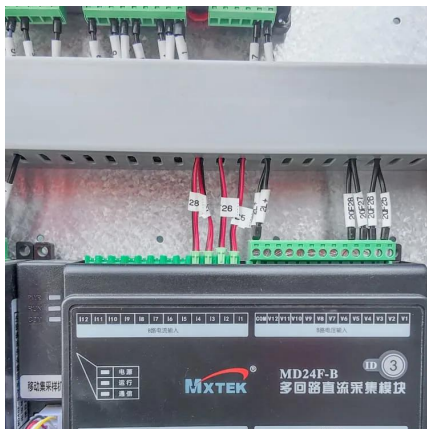
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