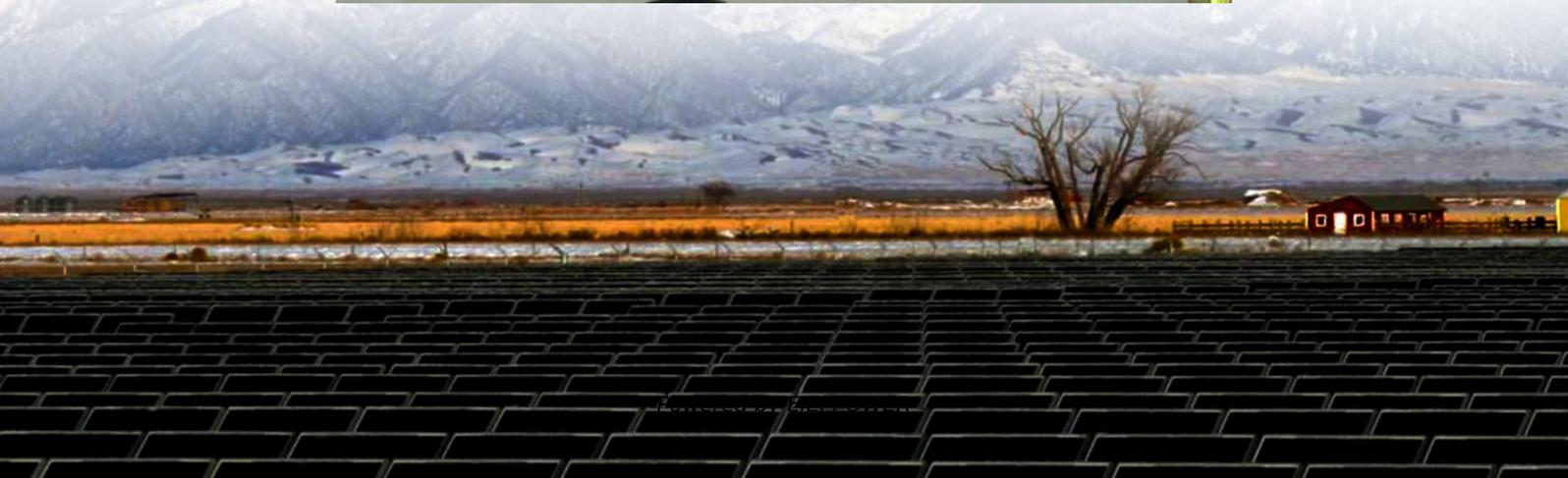
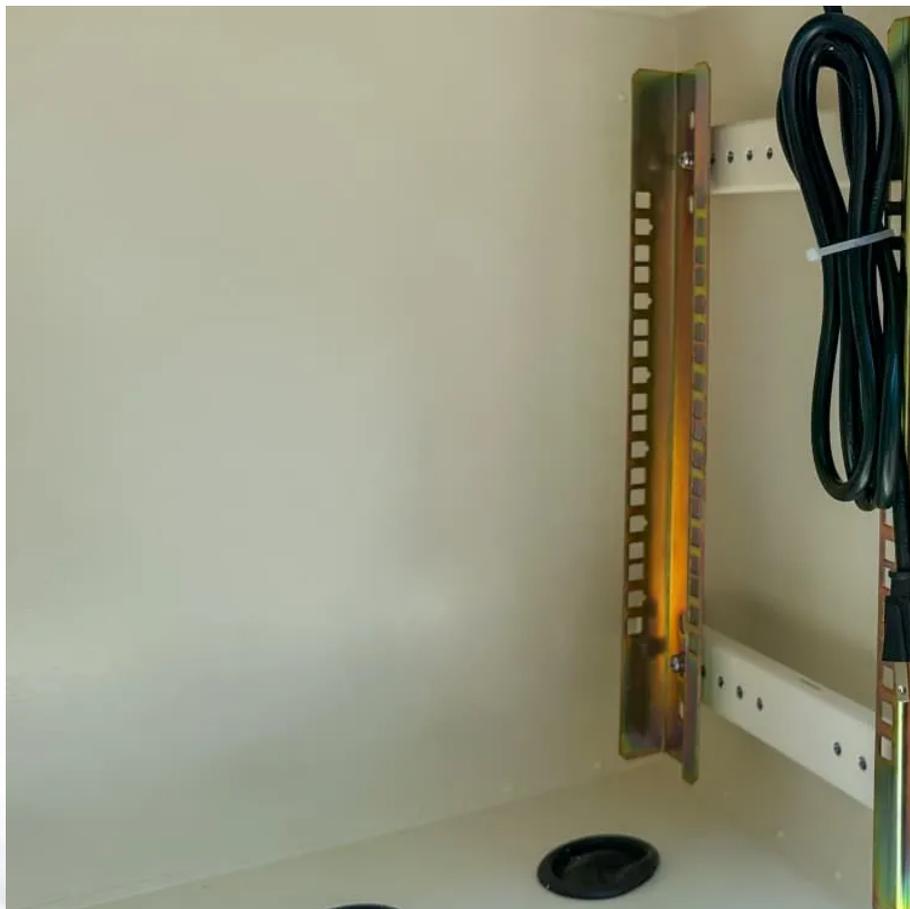


# **How to connect the outdoor communication power supply of BESS house**





## Overview

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How do you connect a Bess to a power supply?

Connect the BESS from utility supply mains. With small required charging current of BESS, the remaining supply can be used for other relatively steady loads. Place the BESS as close as possible to the instantaneous load equipment (e.g. tower crane) to minimise the length of outgoing large cable to reduce cost.

Should a battery energy storage system be installed for customer self-use?

Remarks: If a Battery Energy Storage System (BESS) will be installed for customer self-use, it should be ensured the BESS does not have capability to export power to or back energize the distribution network connected in parallel with the main grid.

How to maintain a Besses battery?

Maintain the battery level above 50% for continuous operation and avoid falling below 10% for optimal lifespan of BESS, by adjusting the input charging current. 24/7 continuous charging as input current is small. The incoming cable shall be sized based on maximum allowable input current to the BESS. Connect the BESS from utility supply mains.

Where should a Bess be placed?

Place the BESS as close as possible to the instantaneous load equipment (e.g. tower crane) to minimise the length of outgoing large cable to reduce cost. Rather, longer incoming cable could be acceptable because of much smaller current and lower cost, providing higher wiring flexibility.



## How to connect the outdoor communication power supply of BESS house



### [General Guideline on BESS adoption for construction sites](#)

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