

Why is internal communication important in energy storage systems?

Efficient internal communication within energy storage systems (ESS) is critical for ensuring stable operation, optimal performance, and safety management.

Why are energy storage systems important?

Energy storage systems are used in a huge range of applications - for example, for providing electricity in the event of grid outages. Energy storage systems have an important role to play in the energy revolution, especially with the increased use of renewable energies. This is because renewables are not available at all times to meet demand.

How does the control center communicate with the PV system?

The control center communicates with the PV system by a Modbus protocol and with the BESS by IEC 61850. The IEC 61850 data structures provided by the BESS were created beforehand by a configuration file. Fig. 5 presents a schematic of this structure. Fig. 5. use case "meeting the supply forecast". 5.1. Constraints on implementation



**Energy storage  
communication bus**

**power**

**station**

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