PV + ESS AC COUPLED SITE COMMUNICATION PROTOCOL

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Implementing a communication network at a photovoltaic power generation facility with collocated energy storage.

POI

The POI (point of interconnection) is most commonly the point at which the energy output of the power generation facility is monitored by the utility company who accepts the production of the plant.

TO

THE

GRID

The energy meter is a high-quality

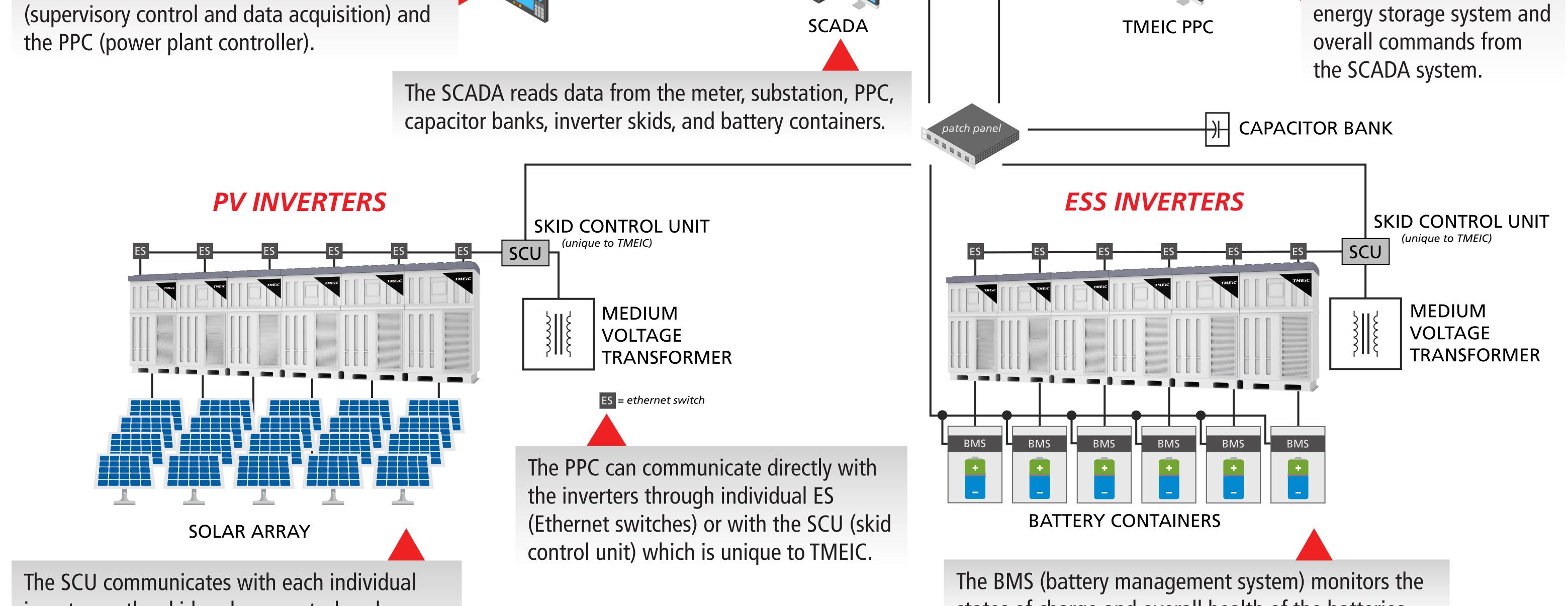
measurement device that is read by the SCADA

Potential use cases for the implementation of an energy storage system collocated with a photovoltaic field include:

- Power smoothing
- Frequency shifting
- Power shifting

The PPC reads from and writes commands to the inverter skids and battery container to provide a local energy management system at the power plant.

The PPC will charge and discharge the batteries in coordination with the inverters and BMS based on the use case of the



SUBSTATION GSU

generator step-up transformer

inverter on the skid and can control each inverter independently, so if one inverter has a fault, the other inverters on that skid will continue to operate. states of charge and overall health of the batteries.

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SCAN FOR MORE INFORMATION

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