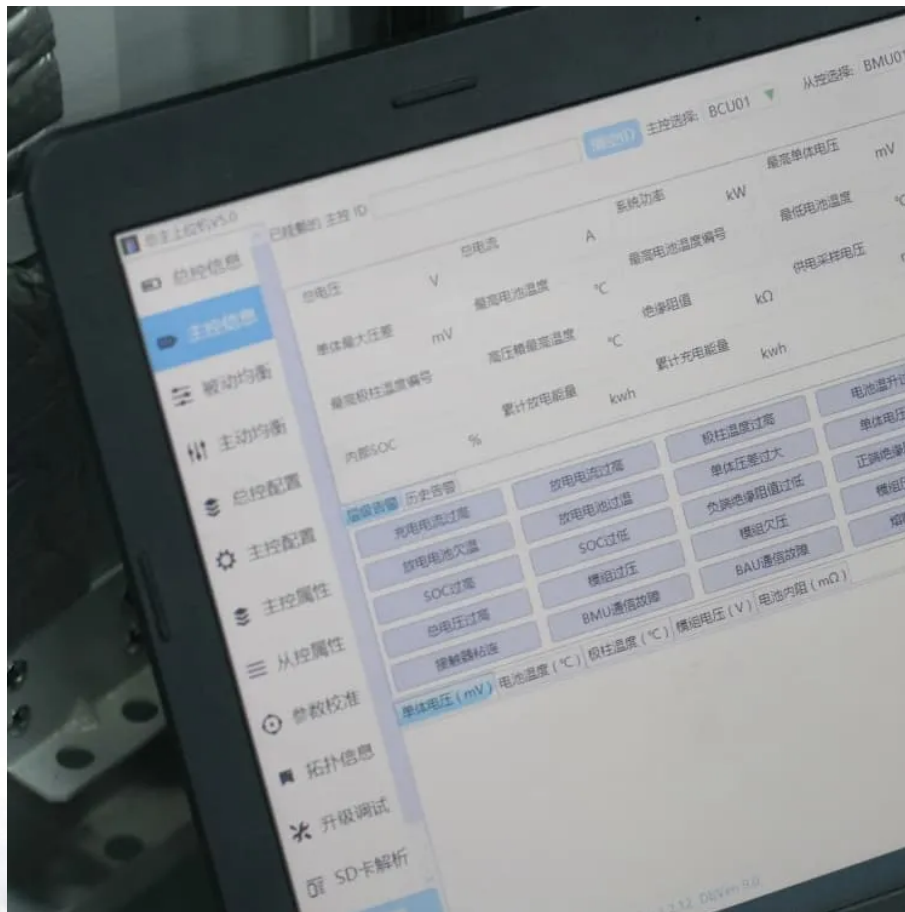


Energy storage station operation and maintenance plan





Overview

How do you decide if an energy storage system should be replaced?

Determine criteria to decide whether to repair or replace a component; criteria to decide whether to “cannibalize” a string of modules to source replacement modules or to order new parts; and criteria to decide if an energy storage system with declining energy storage capacity should be replaced.

Do energy storage products need periodic maintenance?

The requirements for periodic maintenance for energy storage products should be identified by the OEM (IEEE 2010). In settings where predictive analytics maintenance is economical, guidance should also be available from the manufacturer that identifies methodologies for assessing when a product may be approaching a failure mode.

What should NREL consider when testing energy storage systems?

Photo by Owen Roberts, NREL Considerations for energy storage system testing include the following. If cost-justified by a large purchase, consider qualification testing of battery systems. Include test conditions in specifications for battery O&M diagnostics and testing.

What is demand charge management in a PV plus storage system?

For example, demand charge management through a PV plus storage system dictates the strategy for when to discharge the battery and when to charge it. In these situations, the control algorithm will be more complicated and likely call for some degree of forecasting and monitoring PV power, load profiles, and demand charges.



Energy storage station operation and maintenance plan



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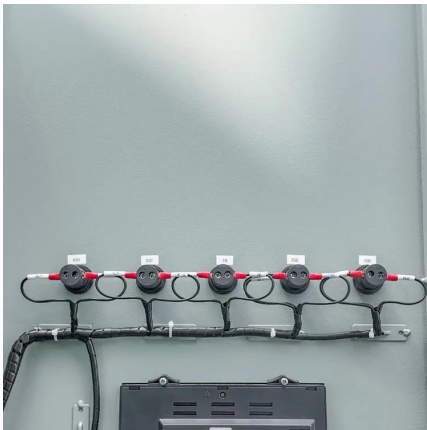
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