

Local portable energy storage power supply





Overview

What is local energy storage?

Local energy storage can be applied to assist with voltage regulation (specifically voltage rise) in the presence of high levels of distributed generation. Energy storage may be used to absorb the active power injected by the local generation, reducing the amount exported into the supply network.

What is energy storage?

Energy storage may be used to absorb the active power injected by the local generation, reducing the amount exported into the supply network. This energy storage may take the form of batteries as well as alternate energy storage such as hot water.

What is local energy storage (CES)?

Local CES refers to shared residential as well as shared energy storage in a localized community. The members have shared goals such as energy independence, resiliency, autonomy as well as energy security and self-govern and own the CES. Shared local energy storage is emerging in the energy landscape.

Is the size of energy storage sufficient for voltage regulation?

Whilst effective in theory, most studies indicate that the size of the energy storage compared to the size of the distributed generation is not sufficient to be able to store enough energy to provide an effective voltage regulation response—typically, the energy storage fills before peak generation (and peak voltage rise).



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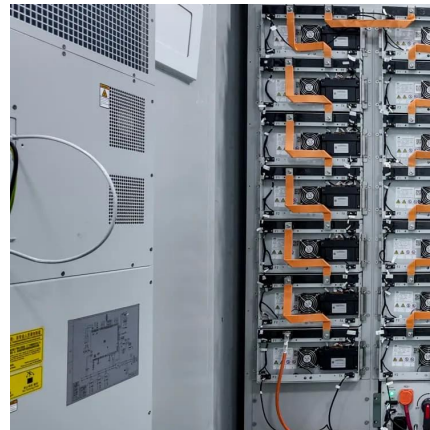


Local Energy Storage

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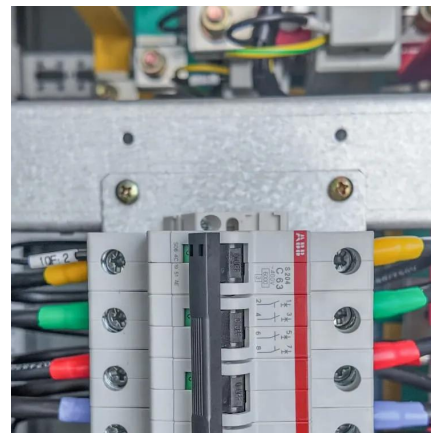


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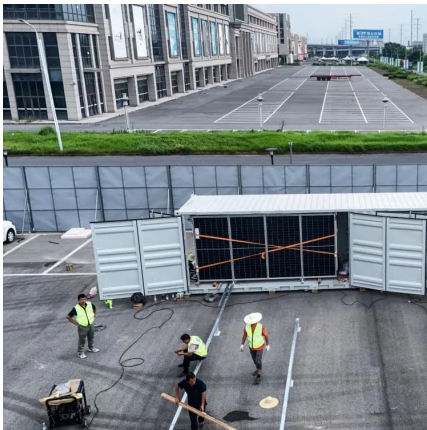
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