

A-Core Container

Home Microgrid Energy Storage



Overview

A solar microgrid combines solar panels, battery storage, and smart energy management systems to create a localized energy network that can function in tandem with, or independently from, the main utility grid. Why is energy storage important for microgrids?

Energy storage enables microgrids to respond to variability or loss of generation sources. A variety of considerations need to be factored into selecting and integrating the right energy storage system into your microgrid. Getting it wrong is an expensive and dangerous mistake.

Should a microgrid be connected to the grid?

“Microgrid homes must still be connected to the grid, but because they generate energy, their demand is roughly half that of a typical home,” says Damon Rand, founder of Cepro Energy, which has built two microgrids since 2020 for new housing developments in Bristol and Bridport, serving a total of 87 homes.

Could microgrid homes save the world?

By reducing reliance on large-scale electricity grids, microgrid homes promise cheaper power, a more secure electricity supply and a faster shift to cleaner energy, helping to cut the roughly one-fifth of global CO2 emissions generated by residential buildings. In the UK, they could unlock much-needed housebuilding, too.

How does a microgrid work?

The electrical grid exists to supply our electricity demand, ensuring the two are balanced and connecting electrical supply to electrical demand with the transmission and distribution system. In practice, a microgrid works in the exact same way, just for a smaller geographic area, like a couple of buildings or a local community.

Should you buy a microgrid?

Stephanie Clarke, director at Savills, who specialises in country houses in Scotland, says: “Buyers may not know much [about microgrids] at first, but when they understand how solar, batteries, heat pumps and so on in a home can reduce heating and other bills it becomes a selling point.”.

What are the benefits of a microgrid?

In fact, one of the major benefits of a microgrid is that it can extend beyond a single house or building and create a tiny electricity-isolated island within a community.

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Contact Us

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