



Lithium battery for off grid

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Describe an off-grid solar setup, and someone 20 years ago would imagine a remote cabin in the woods, with lead-acid batteries and diesel generators used as backup power. But in the 2020s, off-grid homes might be closer than you think -- like, right next door. Many neighborhoods, either because of their geography or restrictions on the existing grid, are flipping the script and using the grid solely as emergency backup.

“The newest thing is grid defection,” said David Norman, director of solar product and business development at lead-acid and lithium battery provider Discover Battery.

For example, in Hawaii, where utility prices average more than 30-cents/kWh and no new solar can be added to the grid, people are taking their power into their own hands. Often called total self-consumption or zero-export power, Hawaiian households are essentially working as off-grid homes with the grid as a backup.

In California where “public safety power shutoff” events have limited utility power for the last few years, homeowners are planning ahead for extended outages. In the best-case scenario, homes should now be designed to function off-grid for at least a month, while the other 11 months they can use the grid.

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