

Virtual power plant using 20kW US battery cabinet

Our deep dive analysis of the VPP market for energy storage. The energy storage revolution isn't coming--it's here, and battery-based virtual power plants are its most powerful catalyst.

Beyond this, Vermont's Green Mountain Power has been able to use its long-running battery storage VPP to cut costs for its ratepayers. IEEFA has written about this program previously ...

Virtual power plants (VPPs) are one of 2025's most useful money-saving energy trends. By networking thousands of home batteries (and sometimes smart thermostats and EV chargers), ...

An electric grid operator, like this one in California, can dispatch energy from a virtual power plant to the grid to help meet energy demand.

Analysis suggests that a VPP made up of residential thermostats, water heaters, EV chargers, and behind-the-meter batteries could provide peaking capacity at roughly half the net cost to a utility of ...

Advances in battery technology and AI software are driving virtual power plants to scale, enhancing grid stability and reducing energy costs.

Back in San Jose, I asked Weldon how he explains a virtual power plant to neighbors. His two-story house has solar panels on the roof, two Tesla Powerwall batteries inside and two EVs in...

Smart thermostats, EV chargers, rooftop solar panels, and home batteries are becoming critical to the grid. Known as distributed energy resources (DERs), these small devices can generate, ...

Find information on what a virtual power plant (VPP) is and how you can join Tesla VPP programs as a Powerwall owner. A virtual power plant (VPP) is a network of distributed energy sources such as ...

Learn how virtual power plants work, how home batteries support the grid, and how connected energy systems help create a cleaner, more reliable future.

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