

Why is energy storage important?

Energy storage is essential for creating a cleaner, more efficient, and resilient electric grid. Additionally, these projects will provide meaningful benefits to Disadvantaged Communities and Low-to-Moderate Income New Yorkers. Energy storage is essential to a resilient grid and clean energy system.

How will energy storage impact New York?

Storage will increase the resilience and efficiency of New York's grid, which will be 100% carbon-free electricity by 2040. Additionally, energy storage can stabilize supply during peak electric usage and help keep critical systems online during an outage. All of this while creating an industry that could employ at least 30,000 New Yorkers by 2030.

What resources are available for energy storage?

The following resources provide information on a broad range of storage technologies. General Battery Storage, ARPA-E's Duration Addition to electricity Storage (DAYS), HydroWIRES (Water Innovation for a Resilient Electricity System) Initiative

How does energy storage affect energy prices?

As energy storage is added to the grid, the high July and December prices are reduced but prices in neighbouring months increase. In the 20 TWh scenario, average marginal prices for July, August, November, December and January range from 52 to 100 \$/MWh while other months average 35 \$/MWh or less.

Should energy storage be included in the electric grid?

Integrating storage in the electric grid, especially in areas with high energy demand, will allow clean energy to be available when and where it is most needed. As New York continues to invest and build a cleaner grid, energy storage will allow us to use existing resources more efficiently and phase out the dirtiest power plants.

Is energy storage 99% short-duration?

Excluding Alberta, which holds 300 GW of 18-h storage, the baseline's energy storage is 99% short-duration energy storage (under 10 h duration). Throughout this paper, we reference the marginal price of electricity.

Recorded live at the Hub during Intersolar & Energy Storage North America 2025, these conversations spotlight cutting-edge solutions for grid resilience, energy storage, and distributed energy. Paul Walker of Progress ...

Today's energy storage technologies are not sufficiently scaled or affordable enough to meet energy demand that fluctuates throughout the day and night. Long-duration energy storage (LDES) is a cost-effective option to



