



Energy storage installed capacity in 2018

What is the worldwide electricity storage operating capacity?

Worldwide Electricity Storage Operating Capacity by Technology and by Country, 2020 Source: DOE Global Energy Storage Database (Sandia 2020), as of February 2020. Worldwide electricity storage operating capacity totals 159,000 MW, or about 6,400 MW if pumped hydro storage is excluded. The DOE data is current as of February 2020 (Sandia 2020).

How much storage power does a utility use?

In 2018, utilities reported 234 MW of existing small-scale storage power capacity in the United States.

What is the energy capacity of large-scale battery storage in the US?

At the end of 2018, 869 megawatts (MW) of power capacity, representing 1,236 megawatt-hours (MWh) of energy capacity, of large-scale battery storage was in operation in the United States.

What is the average power capacity of a battery storage installation?

Large-scale battery storage installations in CAISO have an average power capacity of 5 MW and an average duration of 4 hours, as shown in Figure 4. Installations in PJM, however, tend to be power-oriented with larger capacities and shorter durations to serve frequency regulation applications.

Where is the largest battery storage capacity installed?

As shown in Figure 1, about 90% of large-scale battery storage capacity in the United States is installed in the regions covered by five of the seven organized independent system operators (ISOs) or regional transmission organizations (RTOs) and the non-contiguous states of Alaska and Hawaii (AK/HI).

What is the largest energy storage technology in the world?

Pumped hydro makes up 152 GW or 96% of worldwide energy storage capacity operating today. Of the remaining 4% of capacity, the largest technology shares are molten salt (33%) and lithium-ion batteries (25%). Flywheels and Compressed Air Energy Storage also make up a large part of the market.

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