

FERC Action on Energy Storage: Where We've Come From, Where We're Going

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www.energystorage.org

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Energy storage is flexibility

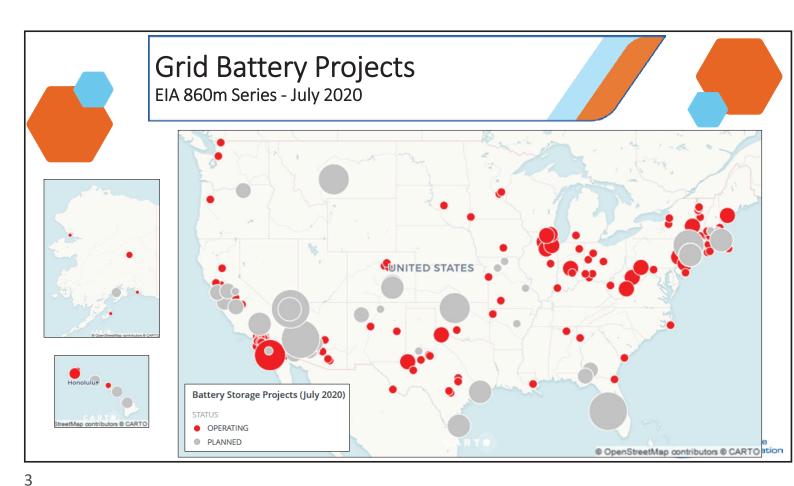
Supplying the precise amount of electricity exactly when and where you need it

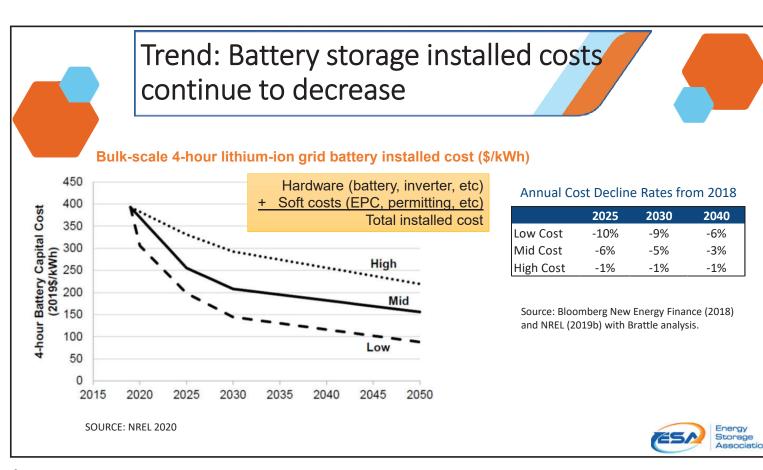


Optimize the electric grid & enable system transformation

- 1. Efficiency // save households & businesses money
- 2. Resilience // make service more disruption-proof
- **3.** Adaptability // integrate diverse, changing resource mix









Sizes and durations rising

Shift from primarily providing ancillary services to increasingly providing capacity / resource adequacy

2008:

1 MW, 15 min

battery in PJM

All battery storage installed 2003-2017: 800 MW / 1200 MWh

Single PG&E battery online in 2020: 300 MW / 1200 MWh

DER storage aggregations Will follow (largest today ~20 MW)

2012: 36 MW, 40 min battery in ERCOT

2016: 30 MW, 4 hour battery in SDG&E

2017: 100 MW, 75 min battery in Australia

300 MW, 4 hour battery in PG&E

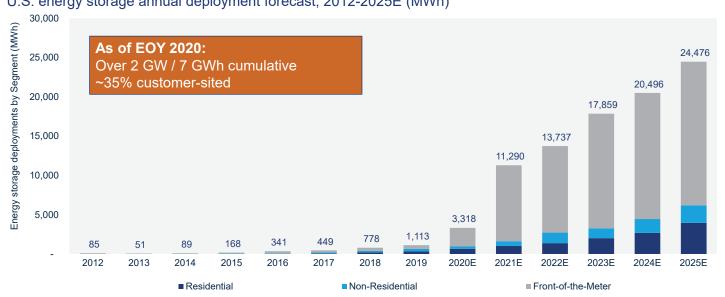
woodmac.com

Wood Mackenzie P&R/ESA | U.S. energy storage monitor Q2 2020

U.S. market will reach 24 GWh annually by 2025

Longer durations for standalone and solar-paired projects will drive 7x market growth compared to 2020

U.S. energy storage annual deployment forecast, 2012-2025E (MWh)



Source: Wood Mackenzie Power & Renewables

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<u>Answer Bar: Navigating a Renewable Energy Project</u>

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