

## 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

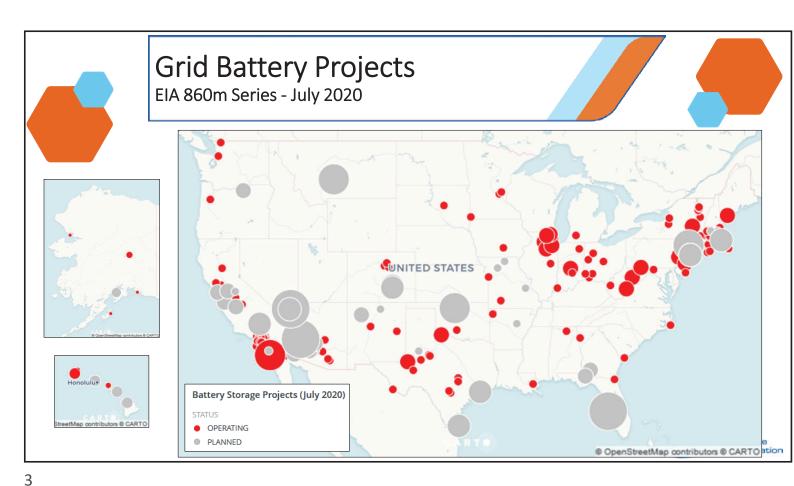
Supplying the precise amount of electricity exactly when and where you need it

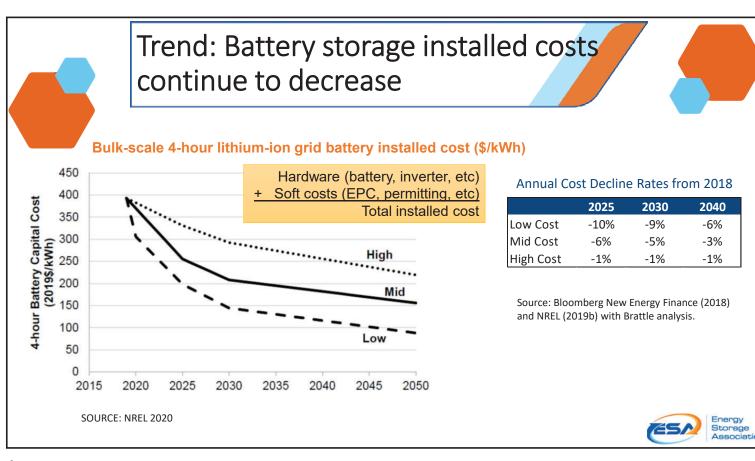


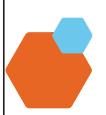
## Optimize the electric grid & enable system transformation

- 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

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 FRCOT 2016:

30 MW, 4

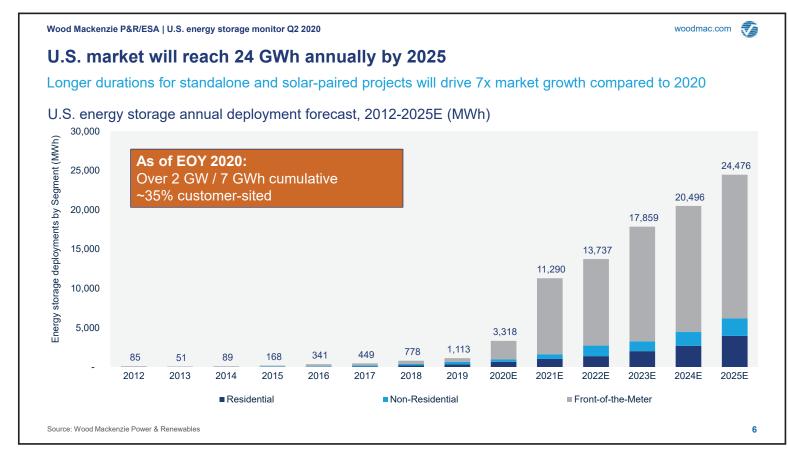
in SDG&E

hour battery

in ERCOT 2008: 1 MW, 15 min battery in PJM 2017: 100 MW, 75 min battery in Australia 2020: 300 MW, 4 hour battery in PG&E



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

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