## State Drivers for Long Duration Energy Storage

Todd Olinsky-Paul Clean Energy States Alliance



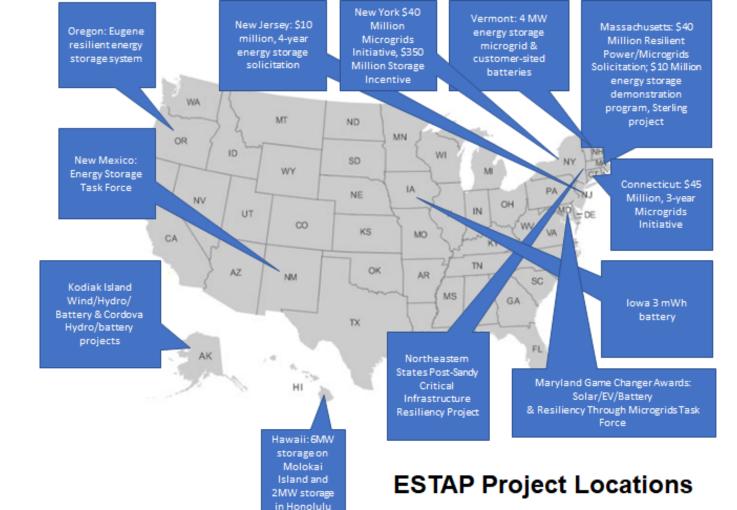




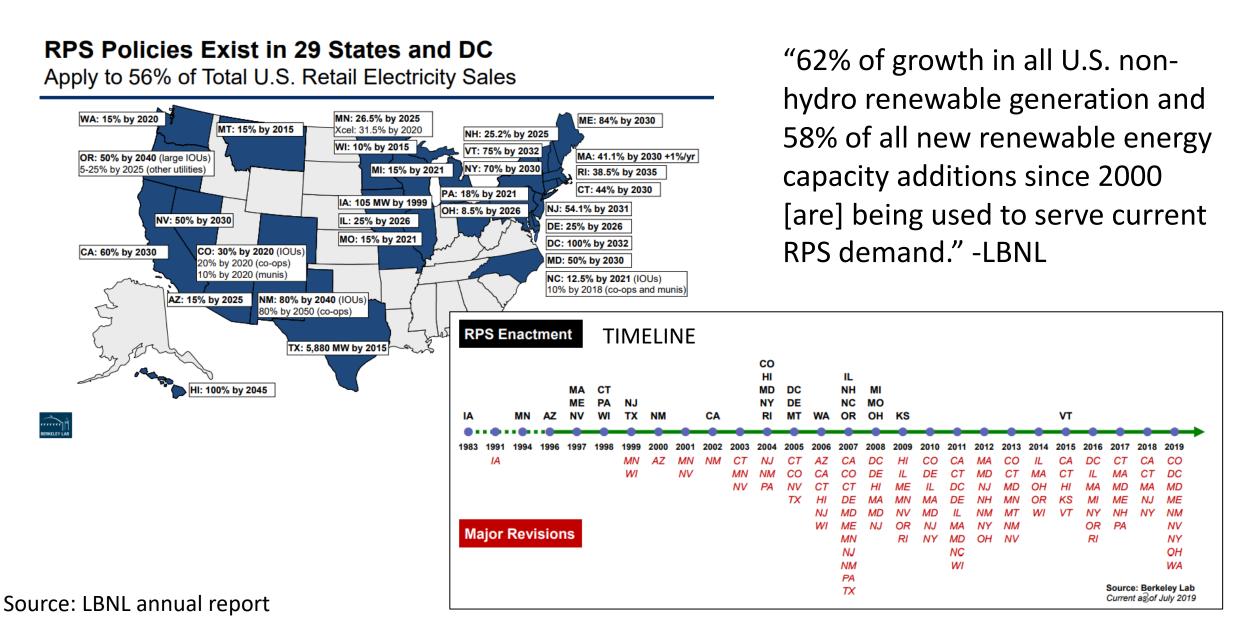
## CleanEnergy States Alliance



## DOE-OE Energy Storage Technology Advancement Partnership (ESTAP)



## States are very effective drivers of clean energy deployment



### **States Have Generally Met Their Interim Targets**

#### And many are well ahead of schedule!

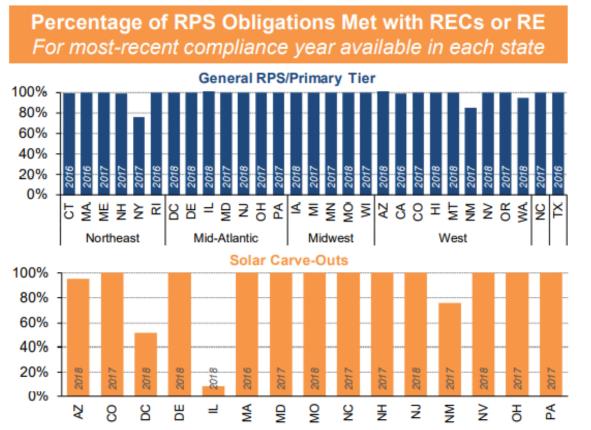


Figure notes: "General RPS Obligations" refers to the non-carve-out portion of RPS requirements in each state. For New England states, it refers to Class I obligations, and for PJM states it refers to Tier I obligations. The years overlaid on each bar refer to the most-recent compliance year for which compliance data are available in each state.



600 500 California 400 Non-CA West TWh 300 Mid-Atlantic 200 Northeast 100 Midwest Texas 0 2019 2020 2022 2023 2024 2026 2028 2029 2030 2027 202 202

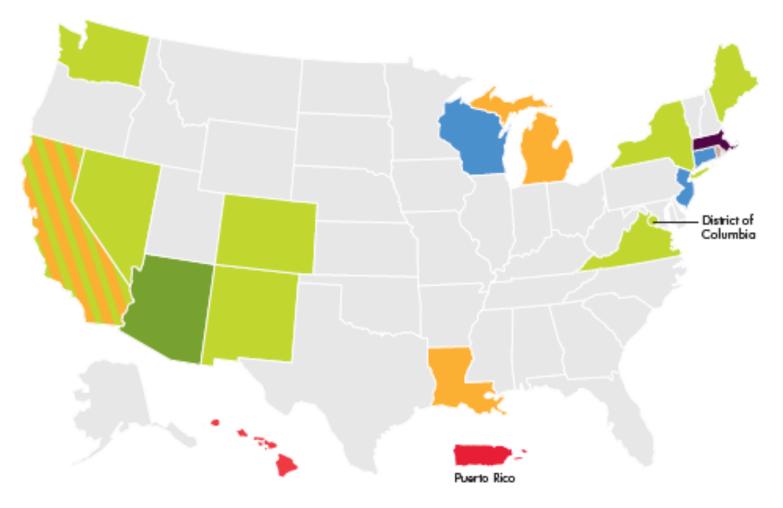
Notes: Projected RPS demand is estimated based on current targets, accounting for exempt load, likely use of credit multipliers, offsets, and other state-specific provisions. Underlying retail electricity sales forecasts are based on regional growth rates from the most-recent EIA Annual Energy Outlook reference case.

Projected RPS Demand (TWh)

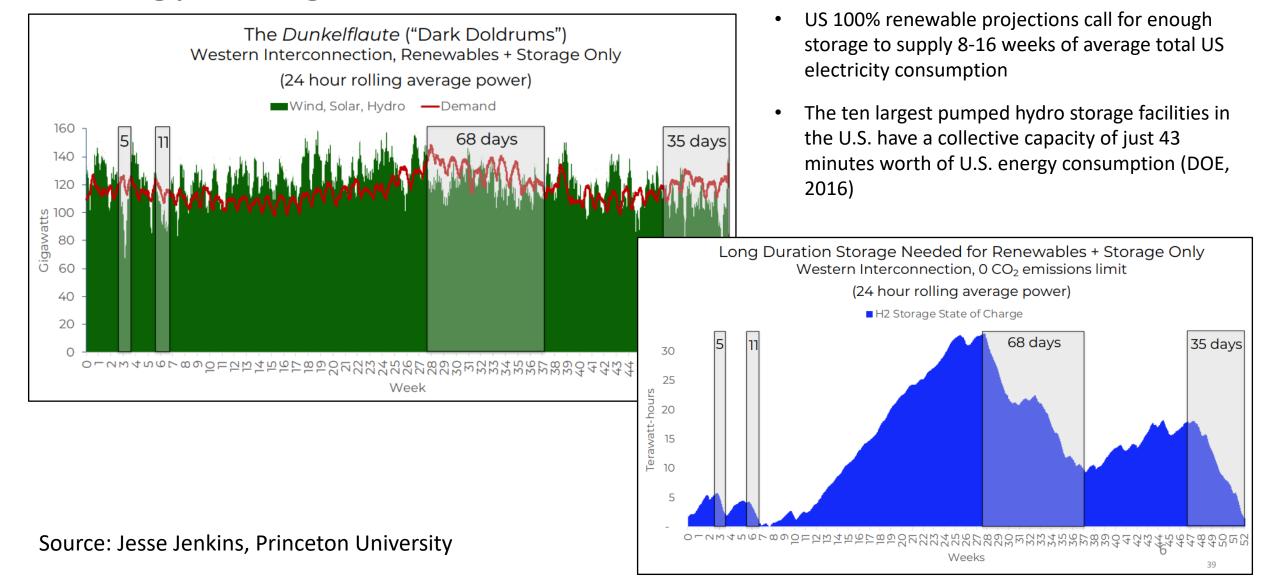
## Leading States are Now Increasing their Goals to 100% Clean Energy

- In the past three years alone, 19 states have established 100% clean energy or zero GHG energy targets.
- CESA used to have an RPS Collaborative: CESA now has a 100% Clean Energy Collaborative
- Most of these 100% clean energy goals come due in 2050.

#### States with 100 Percent Clean Energy or Renewable Energy Policies



# What do 100% clean energy goals mean for long-duration energy storage?



## Thank You to: Imre Gyuk, US DOE-OE

Dan Borneo, Sandia National Laboratories

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ESTAP Website: <a href="http://bit.ly/CESA-ESTAP">http://bit.ly/CESA-ESTAP</a>

ESTAP Listserv: <a href="http://bit.ly/EnergyStorageList">http://bit.ly/EnergyStorageList</a>





