

Energy Storage Association

# Energy Storage, Solar, and Efficiency:

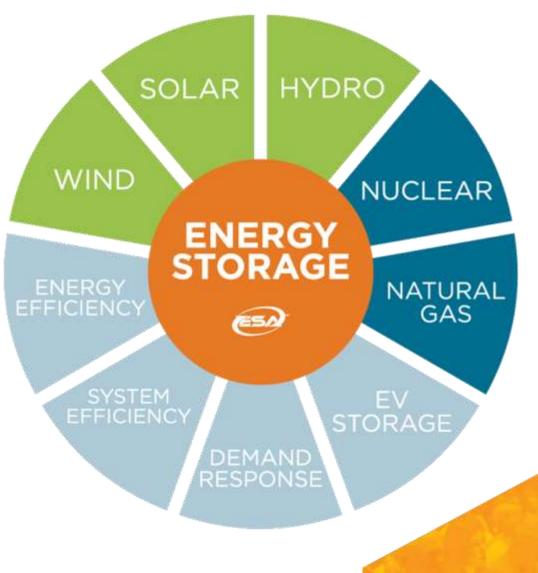
#### **A Sustainable and Resilient Combination**

Kelly Speakes-Backman NASEO Energy Policy Outlook Conference February 7, 2019

www.energystorage.org

## **The Energy Storage Association**

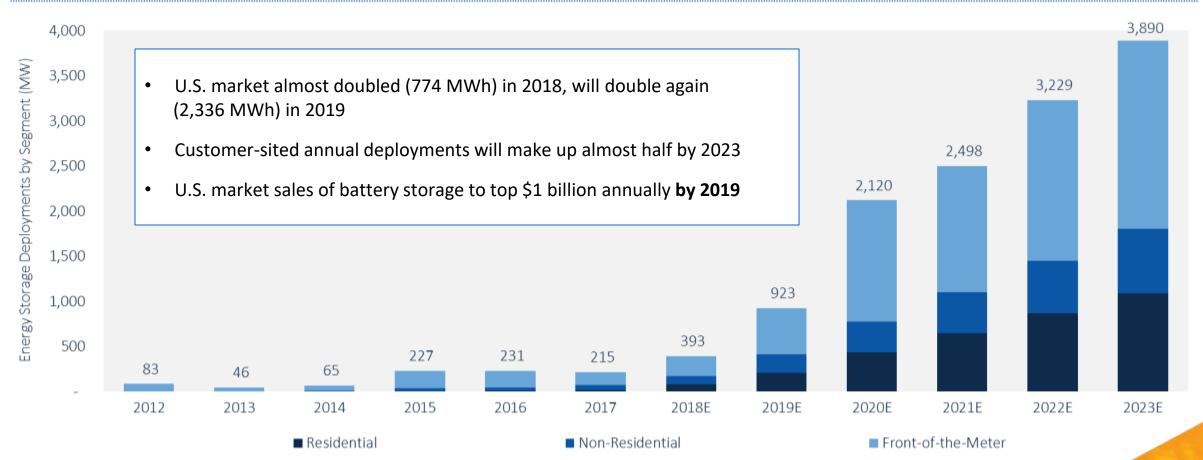






## **Battery installations are growing**

#### U.S. Annual Energy Storage Deployment Forecast, 2012-2023E (MW)



Source: Wood Mackenzie Research/ESA



## Value of storage for consumers

Operational savings •Peak reduction •Power quality (Volt VAR) •DER firming

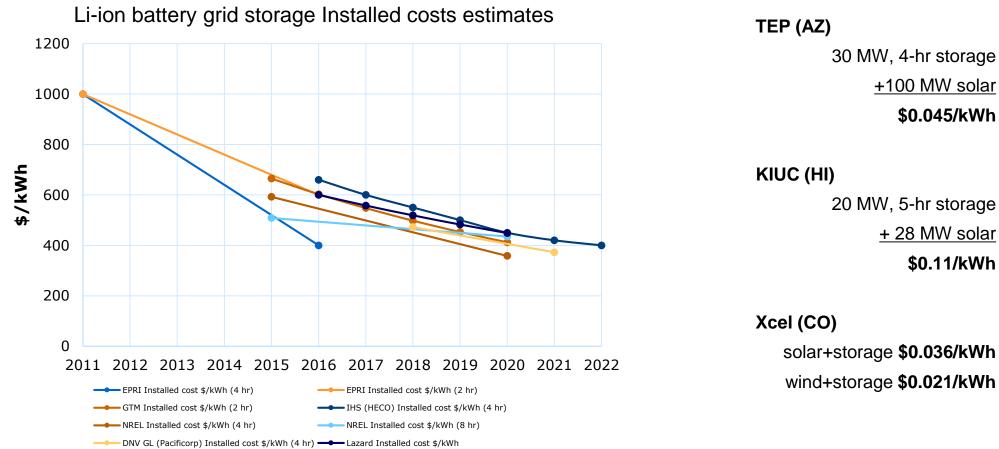
Reliability & ResilienceBackup powerMicrogrid islanding

Ancillary services revenues •Frequency regulation/response •Load following •Ramping •Curtailment •Congestion mitigation •Black start

# Stacking the full value of multiple services



### **Steep cost declines**







## Solar + Storage

#### **Convergence All Along the Grid**

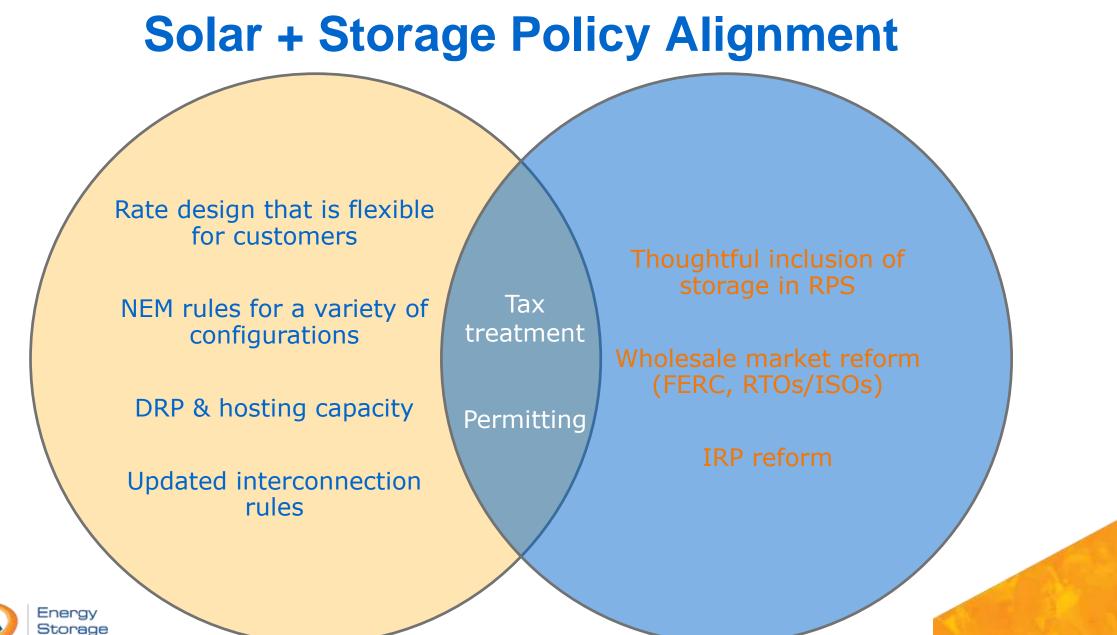
- Increasing residential requests for paired systems
- Enhanced DSM for C&I customers with storage
- More corporate PPA RFPs requesting paired solar+storage



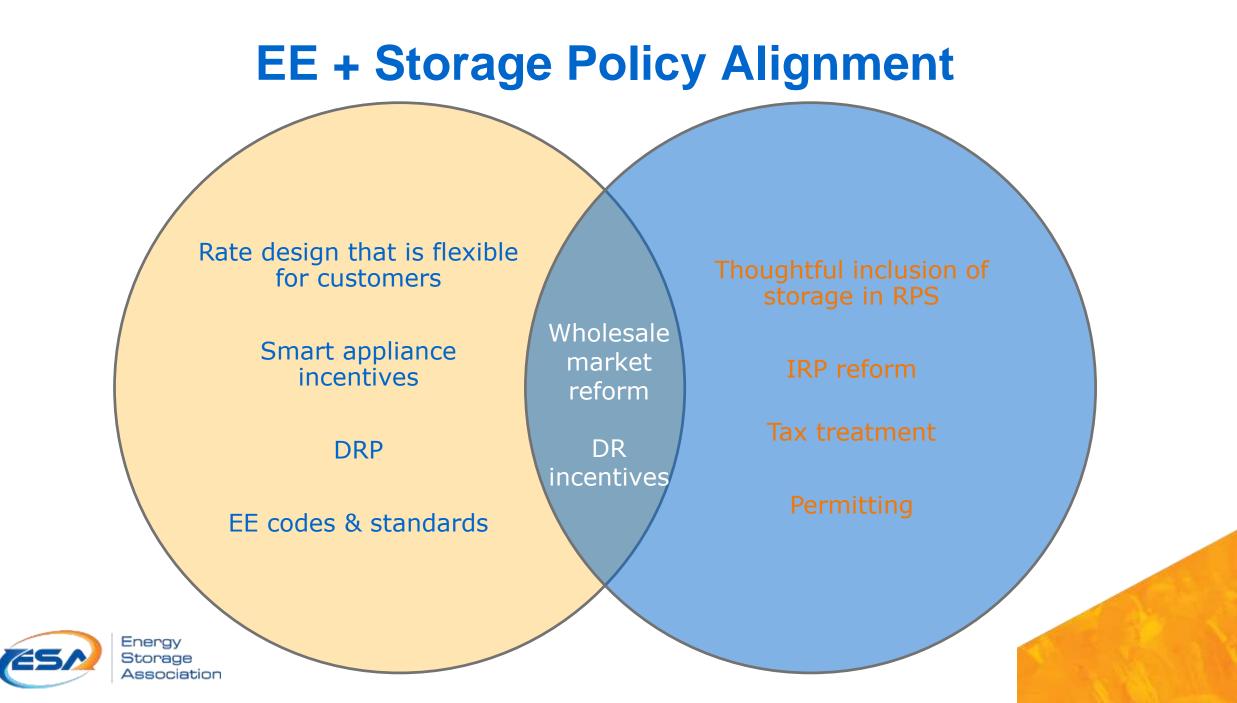


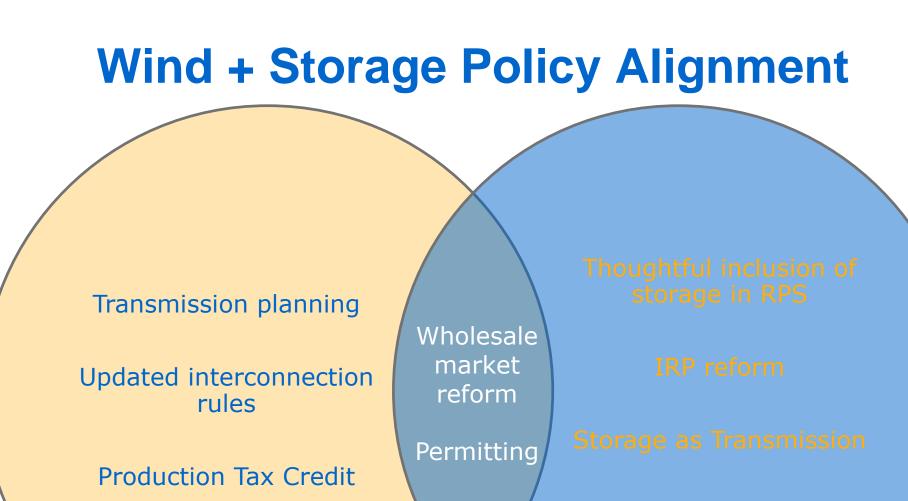
- Complementary alternative to natural gas peaking capacity in IRPs
- Clean Peak Standard policies providing additional revenue for systems that can deliver on peak





Storage Association





Investment Tax Credit





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# Thank you!

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