

# **The Path to 35 GW**

## **35x25: A Vision for Energy Storage**

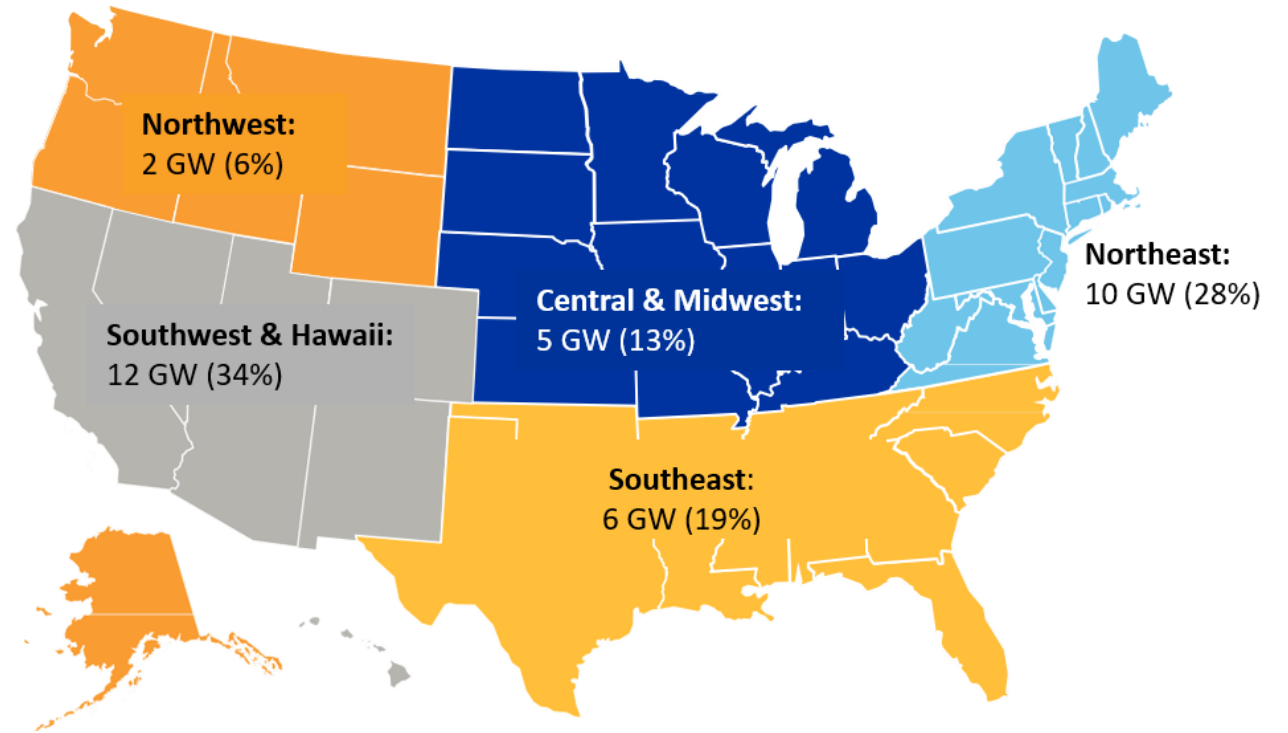
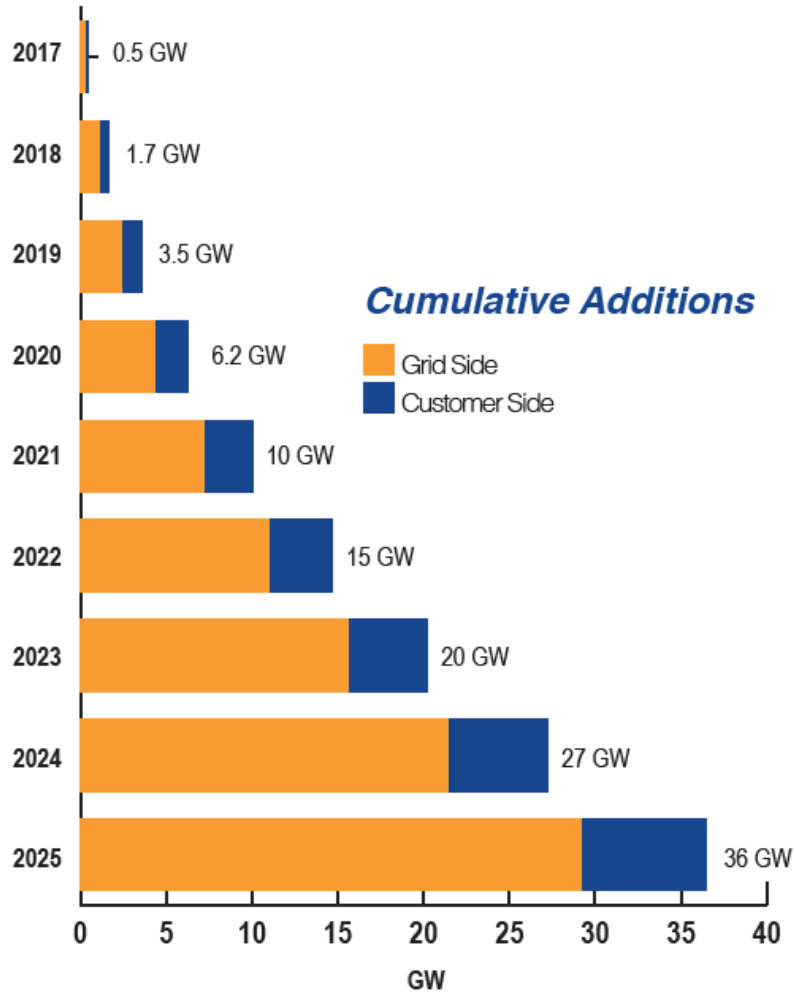
Department of Energy  
Electricity Advisory Committee Meeting  
April 19, 2018



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# Energy Storage Growth



# Market Drivers

**Electrification and digitization of our economy**

**Rising cost of disruption (outages, surges, spikes)**

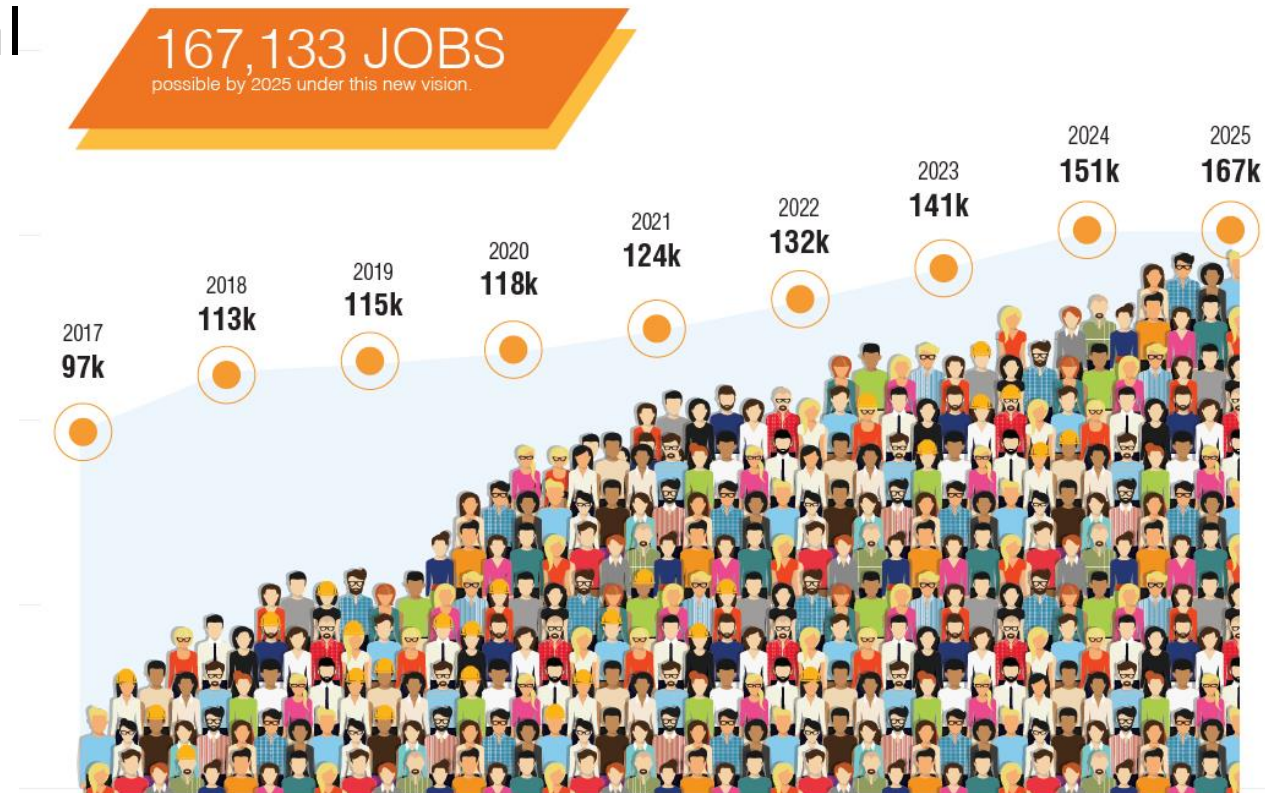
**Demands for flexibility, reliability, resilience**



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# The Benefits of 35 GW

- \$4 billion in cumulative operational cost savings
- Enhanced reliability and resilience
- Customer engagement
- Cleaner air
- **More than 250,000 jobs in storage by 2025**



**The main barrier to storage is the lack of effective means to value & compensate it for its capabilities.**



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# Policy considerations for storage

- Remove barriers to **access**
  - Enable multiple-use storage
  - Address grid interconnection barriers
- Put storage in **competition**
  - Include in long-term resource planning
  - Make eligible in RFPs for system & local capacity
- Create means to **value** storage flexibility
  - Quantify value of flexibility
  - Create market products & compensation mechanisms for flexibility



# 35x25 Vision: A Call to Action

## For Legislators

- Conduct energy storage impact studies
- Enact procurement targets or mandates
- Establish incentive programs
- Set clean energy standards

## For Regulators

- Establish clear rules for storage
- Use updated modeling in proceedings
- Streamline interconnection standards
- Consider the effects of rate design

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## For Utilities

- Update the approach to asset classification
- Expand integrated resource planning to include storage
- Explore new ownership and business models



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# Thank you

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