

# DOE Electricity Advisory Committee Energy Storage Subcommittee Update

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## 2020 Update

**Energy Storage Grand Challenge Recommendations** 

## **Agenda**

**2021 Energy Storage Plan Assessment** 

## **2020-21 Topics and Products**

Power to Gas follow-up Energy Storage Operations Optimization



# Energy Storage Grand Challenge

#### **Process**

Feb-Jun: EAC discussions with DOE

Jul-Aug 2020: SC drafting of recommendations

Aug 2020: Vote TBD: DOE response

#### Recommendations

- Increase coordination within DOE, with other agencies
- Increase collaboration with industry, customers; and increased focus on demonstration projects
- Respond to real needs of the industry and its customers, present and future: focus on reliability and resilience; strengthen planning tools, processes, and data; include existing initiatives, technologies, and policies
- Adopt broad approach, keep an open mind so all possible applications are considered
- Recognize lack of clarity around asset classification and consider all energy storage assets as controllable grid assets
- Consider life cycle analysis and continue to support public and private solutions
  - Develop workforce development programs and include safety training



## 2021 Energy Storage Plan Assessment

## **Statutory Requirement**

Energy Independence and Security Act of 2007 (EISA), Title VI, Section 641(e), Section 641(e)(4): "... every five years [the Energy Storage Technologies Subcommittee], in conjunction with the Secretary, shall develop a five-year plan for ... domestic energy storage industry for electric drive vehicles, stationary applications, and electricity transmission and distribution."

## Scope

Build on ESGC Recommendations and DOE's Final Energy Storage Roadmap Follow statutory requirement to provide input on holistic view of energy storage industry, applications, and impact.

#### **Process**

Aug. 2020: Recommendations to Energy Storage Grand Challenge

2020-Q1 2021: Review of Energy Storage 10-Year Roadmap

February-March 2021: Expected Report



# Other topics

### **Power to Gas**

June 2020: Panel on Power to Gas Fall 2020: Follow up DOE activities

What is the role of hydrogen and power to gas technologies in the electric and gas sectors?

## **Optimizing energy storage operations and benefits**

Feb 2021: Panel

- Colocation of energy storage with wind, solar and other generation
- Cohesive approaches for dispatching energy storage for charging and discharging



