

DOE Electricity Advisory Committee Energy Storage Subcommittee Update

Lola Infante

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Agenda

2020 Update

Energy Storage Grand Challenge Recommendations

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



Questions