

DOE Electricity Advisory Committee

Energy Storage Subcommittee Update

March 2022



2022 Projects

Recommendations: Facilitating the Integration and Commercialization of Energy Storage- How DOE can Leverage its Role and Resources

Develop recommendations as follow up to March 2022 panel

IIJA Input and Guidance

The EAC will provide input and guidance on IIJA issues brought forward by DOE. The EAC will participate in IIJA stakeholder process as determined by EAC

- Supply chain
- Long duration storage

2022 Biennial Energy Storage review

2022 Biennial Energy Storage Review

Statutory Requirement

Energy Independence and Security Act of 2007 (EISA)

Energy Storage (Technologies) Subcommittee of EAC formed in March 2008 in response to Title VI, Section 641(e)

Title VI, Section 641(e) imposes two requirements on the energy storage subcommittee

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.’

Section 641(e)(5): ‘ . . . the Council shall (A) assess, every two years, the performance of the Department in meeting the goals of the plans developed under paragraph (4); and (B) make specific recommendations to the Secretary on programs or activities that should be established or terminated to meet those goals.’

2022 Biennial Energy Storage Review

Scope

2012 review focused on energy storage-related activities of OE

2014 review expanded this scope to further include EERE, ARPA-E, and SC
Also examined coordination between the Department and other Federal agencies (e.g., NSF and DOD). In-line with offices and agencies included in the Department's overall strategy

2016 review maintained the same broad programmatic scope

Technological scope was expanded beyond electricity in/electricity out storage
Included power-to-gas, thermal, and virtual storage

2018 review maintained the same broader scope

Relied extensively on industry interviews. Was more succinct than previous years'

2020 review maintained the same broader scope

Relied more heavily on EAC expertise. Kept the streamlined format

2022 review

Maintain scope and consider broad, holistic view of energy storage industry, applications and impact

**Consider recent recommendations on ESGC and 5-Year Plan
IIJA inclusion? Other changes requiring examination?**

2022 Biennial Energy Storage Review

Process

Background

- 2020 Biennial Energy Storage Review
EAC Recommendations on the ESGC
- 2021 Energy Storage Five-Year Plan

Information gathering

- Webinars by DOE offices
- Industry interviews
- Energy Storage Peer Review (Sept)
- EAC internal expertise

Timeline

- March: EAC kick-off
- Apr-Sep: Development and 1st draft
Review ES programs
- Oct: Vote?

Draft plan



Questions