

# DOE Electricity Advisory Committee

## Energy Storage Subcommittee Update

June 2022



# 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**

**New developments: ESGC, IJJA**

**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

- Panel March: Facilitating the Integration and Commercialization of Energy Storage- How DOE can Leverage its Role and Resources
- Panel June: Supply Chain Considerations for Energy Storage
- EAC Biennial Energy Storage Review Briefings
  - ESGC & Long Duration Energy Storage for Everyone, Everywhere Initiative
  - EVs as a grid storage asset
  - ES resilience demos
  - Hydrogen
- Energy Storage Peer Review
- Industry interviews
- EAC internal expertise

Draft plan

# 2022 Biennial Energy Storage Review

## TIMELINE

### RESEARCH

Mar: EAC kick-off  
Mar-Jul: Info gathering / Briefings  
Aug-Sep: Info gathering / Interviews  
Sep: Peer review

### DRAFTING

Jul: Outline  
Sep: 1<sup>st</sup> draft  
Oct: Final draft  
  
**Oct** **Vote**

*Draft plan*

# 2022 Additional Projects

## **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 energy storage

## **Anything else?**

Pending subcommittee discussion



**Questions**