



Energy Storage Forum

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ESTF Accomplishments

- The Energy Storage Task Force (ESTF) was established by the JGC in May 2020
 - Energy Storage Commercial Task Force (ESCTF)
 - Energy Storage Operations Task Force (ESOTF)
 - Energy Storage Modeling Task Force (ESMTF)
- The ESMTF developed the Guidelines for Modeling of Energy Storage Devices (January 2021)

ESTF Accomplishments

- The ESOTF and ESMTF established the Energy Storage Services White Paper (ESSWP) Task Force
- The ESSWP was approved by the JGC on March 3, 2023
 - Identified services essential to the reliable operation of the BPS
 - Identified characteristics and benefits of energy storage
 - Described and contrasted each function and compared how existing resources provide this service
- On April 7, 2023, the JGC approved the dissolution of the ESTF and creation of the Energy Storage Forum (ESF)

ESF Establishment

- The ESF
 - Was established by the JGC
 - Reports to the Reliability Risk Committee (RRC)
 - Receives action items periodically from the RRC
- A forum operates less formally than a work group, allowing for more flexibility in how meetings are conducted
- The WECC Committee website is being updated

Purpose (Scope)

- To discuss issues associated with the integration of energy storage devices and to share lessons learned and best practices.
- The ESF will focus on information sharing by:
 1. Discussing industry best practices for installation, operation, modeling, market issues, safety, and environmental issues related to energy storage.
 2. Investigating the impacts of storage on the Bulk Electric System.
 3. Coordinating with WECC, NERC, and industry bodies to bring knowledge and information to WECC Members.
 4. Providing a forum for collaboration with the RRC and the Reliability Assessment Committee (RAC).

Purpose (Scope)

5. Identifying and discussing current and emerging storage technologies, including long-duration energy storage.
6. Sharing findings and lessons learned on the performance of inverter-based resources during system events.
7. Sharing experiences with the use of energy storage as a generation and transmission asset.
8. Facilitating discussions about the impact and need for long-duration energy storage.
9. Discussing other topics brought up by ESF members or assigned by the RRC.

Committee Composition and Governance

Membership, leadership, and meetings will be governed by the Forum Governance Guideline.

Reporting

The ESF will periodically report to the RRC on its activities.

Review and Changes to Scope

- The ESF will review its scope every three years, or as needed, and will make a recommendation to the RRC for approval.
- Following RRC approval, the JGC will endorse.



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