



Studies Subcommittee
Update to
Joint Standing Committee

October 18, 2021

Philip Augustin, Chair
Thomas Carr, Vice Chair

Studies Subcommittee

- Purpose
 - The purpose of the StS is to develop, review, and approve study programs for reliability assessments to address a variety of potential reliability risks to the Western Interconnection
- Items for Approval and Discussion:
 - None

Three-Year Work Plan Status

Title	Reliability Risk Priority	Status	Target Date
Create 2020-2021 Study Program	1: Resource Adequacy and Performance		3/31/2021
Execute 2020-2021 Study Program	1: Resource Adequacy and Performance		9/30/2021
Report on 2020-2021 Study Program	1: Resource Adequacy and Performance		12/31/2021
GMD protocol	Committee-Specific Priority		12/31/2022
Create 2022-2023 Study Program	1: Resource Adequacy and Performance		9/30/2022
Execute 2022-2023 Study Program	1: Resource Adequacy and Performance		12/31/2023
Report on 2022-2023 Study Program	1: Resource Adequacy and Performance		12/31/2023
Path Rating Process	Committee-Specific Priority		12/31/2022
GMD Study	Committee-Specific Priority		12/31/2022



Proceeding



Ongoing



Attention



Assistance



Complete

Recent and Upcoming Activities

- Recent StS activities:
 - Study Program Results/Approval rollout schedule
 - Changes in System Inertia Advisory Group study report (approved by StS)
- Upcoming StS study advisory groups reports:
 - Distributed Energy Resources
 - Variability in Loads and Resources
 - Year 20 Scenarios
 - Bulk Power System Resilience

Variability in Loads and Resources (VLRAG)

- Purpose:
 - Determine impact of variability in loads and resources on the interconnection
- Steps toward completion:
 - November 16—VLRA host two-hour meeting, invite members from StS
 - November 23—Post the report for review by AG and StS feedback
 - November 30—StS host a meeting to address feedback and request final approval

Impact of DER

- Purpose:
 - Identify potential risks of a high penetration of DER in the interconnection
 - At present, the group is completing the analysis work
- Steps toward completion:
 - DER advisory group will host a meeting, invite StS, and post the report
 - Review with AG and StS allowing a feedback period before finalizing
 - StS will host a meeting to address feedback and request final approval

2040 Scenarios Study

- Purpose: "Zero Carbon Future by 2040" by considering the following:
 - Renewable penetration
 - Distribution-side integration with the bulk power system
 - Regulatory forces, market forces, electrification
 - At present, the group is completing the analysis work
- Steps toward completion:
 - Scenarios advisory group will host a meeting, invite StS, and post the report for review by AG and StS allowing a feedback period before finalizing
 - StS will host a meeting to address feedback and request final approval

Bulk Power System Resilience Study

- Purpose:
 - Test the risks associated with HILF (High Impact Low Frequency) events under projected generation mix, including higher renewables and battery storage
 - At present, the group is completing the analysis work
- Steps toward completion:
 - November 11—RAG host a two-hour meeting, invite from StS
 - November 18—Post the report for review by AG and StS feedback
 - November 25—StS host meeting to address feedback and request final approval



Contact:

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