

ERAG Multiregional Modeling Working Group (MMWG) Charter

Establishment

The Multiregional Modeling Working Group (MMWG) was established by the [Eastern Interconnection Reliability Assessment Group \(ERAG\)](#) to support the creation of Eastern Interconnection-wide planning cases under NERC Reliability Standard MOD-032-1 Requirement 4.

Purpose

To establish consistent steady-state and dynamics modeling data requirements and reporting procedures for development of seasonal and planning horizon base cases necessary to support creation of the Eastern Interconnection-wide case(s) that includes the Planning Coordinator's (PCs) planning area.

Scope of Activities

1. Annually review and approve a series of steady-state and dynamics base cases.
2. Annually develop a series of solved steady-state base cases of the Eastern Interconnection for use by industry. The steady-state base cases will include seasonal, near term (5-year) and long-term (10-year) planning horizon base cases.
3. Maintain a database of annually updated steady-state and dynamics modeling data of the Eastern Interconnection.
4. Develop initialized dynamics simulation base cases of the Eastern Interconnection. These dynamics base cases shall be based on selected cases from the steady-state base case series.
5. Annually review the steady-state and dynamics base case requirements of the Eastern Interconnection and recommend steady-state and dynamics base cases to be developed.
6. Develop and maintain a data requirement and reporting procedural manual for use by the Regional Data Coordinators (representing a PC or a group of PCs) in submitting steady-state and dynamics modeling data, and for use by the MMWG Coordinator in developing power flow and dynamics simulation models.
7. Develop and maintain an agreed upon base case development schedule(s) for Regional Data Coordinators to ensure the timely data submission and completion of the steady-state and dynamics base cases for the Eastern Interconnection.
8. Keep abreast of the modeling requirements of NERC, Regional Entities and Registered Entity's bulk power systems and adopt or develop improved modeling and data handling techniques as required.
9. Evaluate alternative methods, means, and software for developing the MMWG series of solved steady-state base cases and the initialized system dynamics simulation models.
10. Develop automation scripts and techniques to create efficiencies for power flow and system dynamics model development as needed.
11. Provide status updates at ERAG meetings.
12. Execute other tasks and responsibilities as outlined by ERAG.

Deliverables

MMWG approved set of steady-state and dynamics base cases. A full set of deliverables can be found in the [MMWG Procedure Manual](#).

Membership

The MMWG membership shall be comprised of one power flow representative and one dynamics representative from each of the Regional Data Coordinators, and non-voting representatives as follows: one liaison representative from each of the EI Regions, a member from each of the organizations that provides model development services to MMWG, and NERC and FERC staff liaisons. Each Regional Data Coordinator shall have one vote. One or more alternate representatives from each Regional Entity or Regional Data Coordinator may be added at their discretion. Additional individuals or organizations who have demonstrated knowledge and value to the MMWG processes can be nominated as liaison members and appointed via a majority vote of the Regional Data Coordinators. Guests can be invited to meetings by the MMWG chair, at the chair's discretion, to promote collaboration.

Leadership

The MMWG leadership team will be comprised of a Chairperson, Vice Chairperson, and Secretary. The leadership positions are to be appointed from among the MMWG voting members for a two-year term. The Vice Chairperson will serve a two-year term and should be available to succeed to the Chairperson. MMWG leadership to serve per the leadership rotation schedule, developed by the MMWG voting members.

Meetings

The MMWG will meet at least three times a year, and additional meetings will take place as needed to meet its responsibilities. Meetings may be conducted in person or virtually determined by the MMWG.

Reporting

The MMWG reports to the ERAG.

Revision History

Version	Date	Description of Change
Initial Version	November 09, 2020	Approved Initial Version
1.0	October 31, 2024	Approved by ERAG