

Modeling and Validation Subcommittee

Meeting Agenda

Virtual

[Link](#), Password: WECC

Dial-in Number: 1-415-655-0003

Attendee Access Code: 2865 745 2902

Day 1 – January 28, 2026

3–5 p.m. MDT

1. **Welcome, Call to Order – Song Wang, PGE**
2. **Review WECC Antitrust Policy – Doug Tucker, WECC**
The WECC Antitrust Policy can be found on wecc.org.
Please contact WECC legal counsel if you have any questions.
3. **Approve Agenda**
4. **Review and Approve Previous Meeting Minutes**
Approval Item: Meeting Minutes from September 10-12, 2025
5. **Review Previous Action Items – Maya Brimhall, WECC**
6. **Review Unapproved Dynamic Models in Master Dynamics File – Doug Tucker, WECC**
7. **MVS Vice Chair – Song Wang, PGE**
Approval Item: Songzhe Zhu, Qualus, LLC, MVS Vice Chair Appointment
8. **WECC MVS Model Approval Procedure – Song Wang, PGE**
Approval Item: MVS Model Approval Procedure
9. **Mod-033 Update**
 - RC West update – Licheng Jin, CAISO
 - SPP update – Doug Tucker, WECC
10. **Prioritizing the Next Set of Model Development**
 - VHVDC2
 - IBR Controls – REEC_E
 - Large Load

- EV Charging Model
- Data Center
- Electrolyzer model
- VHVDC3-Offshore Wind
- Advanced Pump Storage Model
- SVSMO4 Model
- Multi-terminal VSC-HVDC

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Day 2 – January 29, 2026

9 a.m.–5 p.m. MDT

11. Renewable Energy Modeling

- The updates on REPC_E model – Pouyan Pourbeik, PEACE
- IBR Model and Validation Guideline – Songzhe Zhu, Qualus

Approval Item: IBR Model and Validation Guideline

- Discussion on REPC_D Endorsement, and Legacy REPC_B Treatment – Song Wang, PGE

Approval Item: Retirement of REPC_B

- A Joint Granular Forecasting and Optimization Framework for Weather-Aware Grid Operations – Meng Yue, BNL
- Role of WECC MVS in Electromagnetic Transient (EMT) Models and Studies – Song Wang, PGE

12. Active Transmission System Modeling Update

- Overview of active transmission system modeling – Pouyan Pourbeik, PEACE
 - VHVDC2
 - VHVDC3
 - SVSMO4
- Standard Library HVDC and MTDC model development – Wei Du and Quan Nguyen, PNNL

Approval Item: VHVDC_A1 Model Specification

13. Load Modeling

- Modular-based Composite Load Model Implementation in WECC base case update – Nick Hatton, WECC
- NERC Data Center Load Modeling Technical Reference – Dmitry Kosterev, BPA
- Modeling Data Centers using CMLD Guideline – Song Wang, PGE
- PERC1 model development – Parag Mitra, EPRI



- Load modeling work plan — Andreas Schmitt, BPA; Song Wang, PGE
 - Transition the load model to a modular-based structure
 - Parameter calibration
 - Testing/verification: including equipment testing and model performance verification based on system events or other methods
 - WECC load model composition data
 - System-wide simulation
 - EV and data center control and protection
 - Support NERC emerging load plans

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Day 3—January 30, 2026

9 a.m.–noon MDT

14. Power Plant Modeling

- GENQEC Field Review — Jonathan Denman, Nimbus Power Engineers
- GENQEJ Model — Greg Brooks, UASE Walla Walla District

Approval Item: GENQEJ model

- BASOEL2 model — Mike Basler, Basler Electric Company

15. Program Updates

- PSLF program update — Mengxi Chen, GE
- PSSE program update — Jay Senthil, PTI
- PowerWorld program update — Jamie Weber, PowerWorld
- Powertech Labs TSAT program update — Jeff Bloemink, Powertech Labs

16. Public Comment

17. Review New Action Items

18. Review Upcoming Meetings

May 6–8, 2026 Salt Lake City, Utah

September 9–11, 2026..... Virtual

19. Adjourn

