



Modeling and Validation Subcommittee

Meeting Agenda
Salt Lake City, Utah

Day 1 – May 6, 2026

3–5 p.m. MDT

[Link](#), Password: WECC

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

Attendee Access Code: 2632 990 4123

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. See the [Antitrust Compliance Reminder](#) below.

Please contact WECC legal counsel if you have any questions.
3. **Approve Agenda**
4. **MVS Governance: Chair Transition Update – Song Wang, PGE**
5. **Review and Approve Previous Meeting Minutes**

Approval Item: Minutes of the meeting on January 28–30, 2026
6. **Review Previous Action Items – Maya Brimhall, WECC**
7. **Review Unapproved Dynamic Model List – Doug Tucker, WECC**
8. **WECC MVS Model Approval Procedure**

Approval Item: WECC MVS Model Approval Procedure

Break

9. **REGC Model Description Clarification – Song Wang, PGE**

Discussion item: Consider generalizing to “inverter-based resources (IBR)”
10. **Resilient Grid and Data Center Modeling Research by Eaton Grid Intelligence Group – Xiaoyuan Fan, Eaton**
11. **MOD-033 Update**
 - RC West update – Licheng Jin, CAISO

- SPP update – Doug Tucker, WECC

12. Prioritizing the Next Set of Model Development

- VHVDC_A1
- Large Load
 - EV Charging Model
 - Data Center
 - Electrolyzer Model
- Advanced Pump Storage Model

Day 2 – May 7, 2026

9 a.m.–5 p.m. MDT

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Attendee Access Code: 2864 558 7600

13. Renewable Energy Modeling

- The updates on REPC_E model – Pouyan Pourbeik, PEACE
- Discussion on the plant controller REPC model in conjunction with the REGFM model – Songzhe Zhu, QualusCorp
- Discussion on a plant controller dynamic model for mixed technologies such as IBR and synchronous generators – Songzhe Zhu, QualusCorp
- Grid-Forming Plant Control: Practical Perspectives from OEM Implementation – Phil Hart, GEV

14. Active Transmission System Modeling Update

- Standard Library HVDC Model VHVDC_A1 update – Wei Du and Quan Nguyen, PNNL
- Other items

15. Load Modeling

- Modular-based Composite Load Model Implementation in WECC base case update – Nick Hatton, WECC
- Load Modeling v6 Deployment Update: Changes, Validation, and System Stability Results – Tony Anthony, Stephanie Benjes, BPA
- Hybrid BESS Control for AI Data Center Load Smoothing – Xue Lyu, Wei Du, PNNL
- PERC1 model development – Lakshmi Sundaresh, EPRI



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- Test cases and application of PERC1 – Dmitry Kosterev, BPA
 - 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

Day 3 – May 8, 2026

9 a.m.–noon MDT

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16. Power Plant Modeling

- Introduction on AS-PSH Model Specification – Jin Tan, NLR
- Effects of Power Fluctuations from AI Training Processes on hydro generator systems – Kaustav Chatterjee, Biswas Shuchismita, PNNL
- BASOEL2 Overexcitation Limiter Model Specification – Henry Jansen, Basler Electric

Approval Item: BASOEL2 Model Specification

17. Program Updates

- PSLF program updates – Mengxi Chen, GEV
- PSSE program updates – Jay Senthil, PTI
- PowerWorld program updates – Jamie Weber, PowerWorld
- Powertech Labs TSAT program updates – Jeff Bloemink, Powertech Labs

18. Public Comment

19. Review New Action Items

20. Review Upcoming Meetings



September 16–18, 2026 Virtual

21. Adjourn



Antitrust Compliance Reminder

Because this event brings together market participants who may be viewed as actual or potential competitors, we must be mindful to conduct the event in a manner that is consistent with the antitrust and competition laws and in accordance with WECC's Antitrust Policy and the NERC Antitrust Compliance Guidelines. This meeting is public – participants must not disclose confidential, proprietary, or competitively sensitive information in this open session. Attendees must exercise independent judgment and avoid even the appearance of discussions of agreements or concerted actions that may be viewed as restraining competition. Any company decisions that are informed by your discussions today must be made independently. This guidance is not intended as legal advice, and each attendee is responsible for seeking their own legal advice with respect to compliance with applicable antitrust and competition laws, but any questions on WECC's Antitrust Policy may be directed to WECC's general counsel.