Meeting [link](https://wecc.webex.com/wecc/j.php?MTID=m20842dee51c35349ab830e61bff2d3e4), Password: WECC | Dial-in Number: 1-415-655-0003, Attendee Access Code: 2630 271 3880

# Day 1—September 26, 2023

1:00 to 5:00 p.m. Mountain Time

Tesla Conference Room

## Welcome, Call to Order—Song Wang

## Survey for MVS

## Review WECC Antitrust Policy—Doug Tucker

[WECC Antitrust Policy](https://www.wecc.org/_layouts/15/WopiFrame.aspx?sourcedoc=/Corporate/Antitrust%20Policy%209-2021.pdf&action=default&DefaultItemOpen=1).

Please contact WECC legal counsel if you have any questions.

## Approve Agenda

## Review and Approve Previous Meeting Minutes

Approval Item: Meeting Minutes from May 24–25, 2023

## Review Previous Action Items—Doug Tucker

## Review Approved Dynamic Model List—Doug Tucker, WECC

## Items for Discussion—Song Wang, PGE

* Establish a Core Team
* Review of WECC Model Approval Process
* Phasor and EMT Modeling Discussion

## ESS Sizing and Siting—Meng Yue, BNL

## Real-time Transient Stability Analysis—Logan Affleck, WECC (TBD)

## Review MVS Member List and Update—Doug Tucker, WECC

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Meeting [link](https://wecc.webex.com/wecc/j.php?MTID=m213224854a6b3461807e2a758bdc076a), Password: WECC | Dial-in Number: 1-415-655-0003, Attendee Access Code: 2632 596 5811

# Day 2—September 27, 2023

9:00 a.m. to 12:00 p.m.

## Renewable Energy Modeling

* Generic Grid-Forming Inverter Model Development REGFM\_A1—Wei Du, PNNL—*Approval item*
* Virtual Synchronous Machine Grid-forming Inverter Model and PSCAD/PSSE Comparison Results—Wei Du, PNNL Deepak Ramasubramanian, EPRI
* Grid Forming Invertor Study Report—Doug Tucker and Kent Bolton, WECC
* Photovoltaic Synchronous Generator: A Grid-forming PV Inverter System with a DC Coupled Energy Storage System—Houshang Salimian Rizi, UT at Austin
* Preliminary assessment of Grid Forming Inverter-based Energy Storage Resources in the ERCOT Grid—Yunzhi Cheng, ERCOT
* Update on the latest RES Models—Pouyan Pourbeik, PEACE
* Prioritizing the next set of Model Development
  + Grid-Forming Inverter model
  + REEC\_E model
  + REPC\_D (hybrid plant controller)
  + Multi-Terminal HVDC VSC model
  + SVSMO4 model
  + SCMOV (series capacitor MOV model)
* Off-shore wind model development discussion—All

# Break

# Resume

1:00 to 5:00 p.m.

## Active Transmission System Modeling Update

* Overview of Active Transmission System Modeling—Pouyan Pourbeik, PEACE
* Group summary of activities—Pouyan Pourbeik and all
  + SVSMO4
  + IPP DC line
  + Transbay DC line

## Load Modeling

* Load modeling work plan—Song Wang, PGE, Andreas Schmitt, BPA, and all
  + WECC load model composition data
  + Parameter calibration
  + Transition the load model to a modular-based structure
  + System-wide simulation
  + EV and data center control and protection
* WECC load model composition—Tony Faris, BPA (TBD)
* The survey for data center data collection—Parag Mitra, EPRI
* Discussion item: How we collect large industrial load data/models—All
* Hierarchical machine-learning-based optimal parameterization scheme for WECC composite load model under all disturbances—Meng Yue, Brookhaven National Laboratory

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Meeting [link](https://wecc.webex.com/wecc/j.php?MTID=m2191971d87448692cb919f645730f270), Password: WECC | Dial-in Number: 1-415-655-0003, Attendee Access Code: 2631 169 6419

# Day 3—September 28, 2023

9:00 a.m. to 12:00 p.m.

## How a Large-Scale Deployment of Grid-Forming Inverters May Impact Area Oscillation Modes: An investigation in the U.S. Western Interconnection—Xiaoyuan Fan and Shuchismita, Biswas, PNNL

## Power Plant Modeling

* Review GENTPJ model retirement timeline—Quincy Wang, BC Hydro
* Update on the progress of A-PSH model specification development—Song Wang (PGE) on behalf of Jin Tan (NREL)

## MOD-33 Update

* RC West—Licheng Jin, CAISO
* SPP—Doug Tucker, WECC

## Program Updates

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

## Public Comment

## Review of New Action Items

## Review Upcoming Meetings

January 2024 (TBD) Salt Lake City

May 2024 (TBD) Salt Lake City

September 2024 (TBD) Salt Lake City

## Adjourn