Webinar [link](https://www.wecc.org/Lists/WECCMeetings/DispForm.aspx?ID=16791&Source=https%3A%2F%2Fwww%2Ewecc%2Eorg%2FLists%2FWECCMeetings%2Fcalendar%2Easpx), Password: WECC | Dial-in Number: 1-415-655-0003, Attendee Access Code: 2452 340 0219

# Day 1—May 24, 2022, 1:00 p.m. to 5:00 p.m. (Pacific Time)

## Welcome, Call to Order, Introductions—Song Wang

## Review WECC Antitrust Policy—Doug Tucker

[WECC Antitrust Policy](https://www.wecc.biz/_layouts/15/WopiFrame.aspx?sourcedoc=/Corporate/Antitrust%20Policy.pdf&action=default&DefaultItemOpen=1). Please contact WECC legal counsel if you have any questions.

## Approve Agenda

## Approve MVS charter

*Approval Item: MVS Charter*

## Review and Approve Previous Meeting Minutes

*Approval Item: Meeting Minutes from February 1-3, 2023*

## Review of Previous Action Items—Doug Tucker

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

## Review of WECC Model Approval process – Song Wang, PGE

## Review MVS member list and update – Doug Tucker, WECC

## Frequency Response Monitoring – Dmitry Kosterev, BPA

## Automated Creation of Varying Penetrations of GFM IBRs for Western Interconnection Wide-area Oscillation Study – Xiaoyuan Fan, PNNL

## Follow up CHVDC2 model in basecase discussion – Nick Hatton, WECC; Sergey Pustovit, BPA

## Tesla experience with user defined models – Sai Gopal Vennelaganti, and Prashant Kansal, Tesla

## Grid-Forming Virtual Synchronous Machine technologies – Sasan Zabihi, Hitachi Energy

# Day 2—May 25, 2023, 8:30 a.m. to 12:00 p.m. (Pacific Time)

## Renewable Energy Modeling

* Roadmap of Renewable Energy Modeling—Songzhe Zhu, GridBright
* Introducing the U.S. Department of Energy’s Grid Services Demonstration Project, a 380 MW, Wind, Solar, and Battery Storage Combined Power Plant with Mixed Grid-Forming and Grid-Following Technologies – Song Wang, PGE
* Generic Grid-Forming Inverter Model Development REGFM\_A1 – Wei Du, PNNL – *Approval Item: REGFM\_A1 model*
* Update on Virtual Synchronous Machine grid-forming inverter model specification – Wei Du, PNNL, Deepak Ramasubramanian, EPRI
* Recent Advances in Experiments and Modeling of Grid-Forming Systems– Brain Johnson, UT at Austin
* Update on the latest RES Models – Pouyan Pourbeik, PEACE
* REGC\_C model discussion – All
* 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
* RES WECC models in EMTP – Hossein Ashourian, Henry Gras, EMTP

## 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

# Day 2—May 25, 2023, 1:00 p.m. to 5:00 p.m. (Pacific Time)

## Load Modeling

* Roadmap of Load Modeling – Bo Gong, SRP
* EV Modeling & Characteristics – JP Skeath (NERC)
* Data center modeling – Rob O’Keefe, AEP
* Discussion item: how we collect large industrial load data/models  – All
* Testing modular CMLD representation in GE PSLF – Dmitry Kosterev, BPA
* PJM system stability assessment using CMLD  – Xiaokang Xu, S&C
* Improvement for Single-Phase AC model (Phasor Model) – Lakshmi Sundaresh , EPRI
* DER\_A model induced oscillation discussion & documentation – Deepak Ramasubramanian, EPRI

# Day 3—May 26, 2023, 8:30 a.m. to 12:00 p.m. (Pacific Time)

**Load modeling continue…**

* Fault ride through of converter-based loads – Andrew Larkins, SYGENSYS
* Experience sharing - composite load model behaviors compared against disturbance recordings – Sam Li, BC Hydro

## Power Plant Modeling

* Roadmap of Power Plant Modeling—Quincy Wang, BC Hydro
* Understanding GENTPJ model – Quincy Wang, BC Hydro
* Hydro Generator Rehabilitation Effects on Dynamic Modelling – Michael Xia, Powertech Labs

## RRC risk process – Tim Reynolds, WECC

## MOD-33 Update

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

## Program Updates

* PSLF program updates—Juan Sanchez-Gasca, GE
* PSSE program updates—Jay Senthil, PTI
* PowerWorld program updates—Jamie Weber, PowerWorld
* Powertech Labs TSAT program updates—Jeff Bloemink, Powertech Labs

## Public Comment

## Review of New Action Items

## Review Upcoming Meetings

September 26-28, 2023…………………………………………………. Salt Lake City

## Adjourn

# Day 3—May 26, 2023, 1:00 p.m. to 3:00 p.m. (Pacific Time)

## Tour of the High Voltage Lab, High Power Lab, and the Vista Lab (for distribution automation equipment) at Powertech Labs.