

Webinar [link](#), Password: WECC | Dial-in Number: 1-415-655-0003, Attendee Access Code: 133 951 0237

## **Day 1: Morning Session—September 17, 2020, 9:00 a.m. to 11:30 a.m.**

- 1. Welcome, Call to Order, Introductions—Song Wang (9:00 a.m.)**
- 2. Review WECC Antitrust Policy—Doug Tucker**  
[WECC Antitrust Policy.](#)
- 3. WECC Modeling Guidelines for IBR**
  - Overview of IBR modeling techniques and performance requirements—Songzhe Zhu, CAISO
  - Solar PV modeling guideline—Songzhe Zhu, CAISO
    - REEC\_B to REEC\_D/REEC\_A to second generation model conversion
    - 1<sup>st</sup> generation (type 3/4) to 2<sup>nd</sup> generation model conversion
  - Hybrid modeling guideline—Songzhe Zhu, CAISO
  - BESS modeling guideline—Songzhe Zhu, CAISO
  - Wind modeling guideline—Pouyan Pourbeik, PEACE®
- 4. Question and Answer**

### **Break**

## **Day 1: Afternoon Session—September 17, 2020, 2:00 p.m. to 4:30 p.m.**

- 5. Validation of IBR Models**
  - Overview of IBR model validation—Pouyan Pourbeik, PEACE
  - Model validation experience
    - Wind model validation—Dmitry Kosterev, Gordon Kawaley, Marcos Ayala Zelaya, and Elliot Mitchel-Colgan, BPA
    - Solar model validation—Kevin Brooks and My-Quan Hong, SCE

- Battery model validation—Sophie Xu, PGAE

6. **Review of NERC/WECC Joint Technical Report on IBR Modeling in the Western Interconnection—Kent Bolton, WECC**
7. **Positive Sequence Models and EMT Models—Pouyan Pourbeik, PEACE®**
  - Overview of limitations of positive-sequence models and their applications
  - General IBR plant EMT model requirements and application
8. **Question and Answer**

**Day 2: Morning Session—September 18, 2020, 9:00 a.m. to 11:00 a.m.**

9. **History of Load Modeling in WECC—Dmitry Kosterev, BPA**
10. **Load Model Components—Dmitry Kosterev, BPA**
11. **Load Composition Data—Joe Eto, LBL**
12. **Industrial Loads—John Undrill, SME**

**Break**

**Day 2: Afternoon Session—September 18, 2020, 2:00 p.m. to 4:00 p.m.**

13. **DER Representation in Dynamic Load Model—Irina Green, CAISO**
14. **Load Model Data Management (Load Type Concept, WECC Climate Zones, Tool Demonstration)—Doug Tucker, WECC**
15. **Case Studies**
  - Composite load model sensitivity and model validation study—Andreas Schmitt, BPA
  - Voltage recovery criterion—Irina Green, CAISO
16. **Next Steps in Load Modeling—Mohammed Osman, NERC; Dmitry Kosterev, BPA; Irina Green, CAISO; and Doug Tucker, WECC**
  - Near term (using existing load model structure)



- Using load type for data management, update load composition data, update protection settings
- Longer term (next generation load model)
  - Implement modular composite load mode
  - Improvement of model components
    - New VFD models
    - Phasor model representing ACs
    - Progressive tripping of three-phase motors
    - Continual load composition improvement

### **17. Public Comment**

### **18. Adjourn**

