

Tuesday, March 14, 2017

8:00 a.m. – 9:00 a.m. - Registration & Continental Breakfast

Location: Plaza Grand Ballroom Foyer

9:00 a.m. – 12:00 p.m. - Half Day Tutorial - Capacity Adequacy in an Uncertain Future

Location: Salon C

Chair: Udi Helman, Helman Analytics

- Introduction to Capacity Adequacy and Reliability – Michael Milligan, NREL (25 min)
- Introduction to Capacity Markets – Ron Coutu, ISO-NE
- Introduction to Energy-only Markets – Julia Matevosjana, ERCOT
- Introduction to Bi-lateral Markets – Clyde Loutan, CAISO
- Introduction to Capacity from Storage and DSM – Craig Glazer, PJM
- Discussion

10:00 a.m. – 10:30 a.m. - Break

Location: Grand Ballroom Foyer

12:00 p.m. – 1:15 p.m. - Lunch

Location: Flying V Bar & Grill

User Group Meetings (UVIG Members and Invited Guests Only)

1:15 p.m. – 3:00 p.m. VG Modeling and Interconnection Study User Group Meeting

Location: Salon B

Chair: Bob Zavadil, EnerNex

What the New NERC Standards Mean for VG Plant Model Validation

- Ryan Quint, NERC
- Nick Miller, GE
- Bob Zavadil, EnerNex

1:15 p.m. – 3:00 p.m. - Operating Impacts and Integration Study User Group Meeting

Location: Salon C

Chair: Aidan Tuohy, EPRI

Production Cost Modeling Tools Being Used to Assess Renewable Integration Challenges

- Julia Matevosjana, ERCOT
- Jay Caspary, SPP
- Francisco de la Rosa, CENACE
- Carlo Brancucci, NREL
- Russ Philbrick, Polaris Optimization Systems

3:00 p.m. – 3:15 p.m. - Break

Location: Grand Ballroom Foyer

3:15 p.m. – 5:00 p.m. - Market Operations and Transmission Planning User Group Meeting

Location: Salon B

Chair: Aaron Bloom, NREL

FERC NOPR on Storage and DER Aggregation – What Does It Mean?

- Clyde Loutan, CAISO
- Becky Robinson, FERC
- Ron Coutu, ISO-NE
- Udi Helman, Helman Analytics

2017 Spring Technical Workshop



Tucson, Arizona / March 14-16, 2017

3:15 p.m. – 5:00 p.m. - DG Applications User Group Meeting

Location: Salon C

Chair: Debbie Lew, GE

Modeling Load with High Levels of DER: Where Are We Going?

- Jens Boemer, EPRI
- Abe Ellis, Sandia National Labs
- Ryan Quint, NERC

5:00 p.m. - Adjourn for the Day

6:00 p.m. – 9:00 p.m. - UVIG Board of Directors Meeting

Location: Executive Boardroom

Wednesday, March 15, 2017

7:00 a.m. – 8:00 a.m. - Registration & Breakfast

Location: Grand Ballroom Foyer

8:00 a.m. – 5:30 p.m. - Spring Technical Workshop Program

Location: Salon C

8:00 a.m. – 8:30 a.m. - Welcome and Overview Session

Introduction - Mark Ahlstrom, WindLogics/NextEra Energy

Welcome and Opening Remarks - Kent Grant, Vice President, Tucson Electric Power

Meeting Overview - Charlie Smith, UVIG

8:30 a.m. – 10:15 a.m. - Session 1: New Insights into Wind and Solar Integration Practice and Studies

Moderator, Charlton Clark, DOE

“Wind Power Integration Development Path in the Northeast China Grid” - Jiankun Zhang, President, Northeast China Grid Company

“Can DR Help Integrate PV in Florida?” - Elaine Hale, NREL

“The Role of Transmission in a Western Wind Future” - Greg Brinkman, NREL

“Future Growth of Wind and PV, Including State-level Insights” - Wesley Cole, NREL

10:15 a.m. – 10:30 a.m. - Break

Location: Grand Ballroom Foyer

10:30 a.m. – 12:00 p.m. - Session 2: Distribution System of the Future

Moderator: Frank Goodman, SDG&E

“A Roadmap for Integrating DER” - Vijay Ganugula, NYISO

“ARPA-E Network Optimized Distributed Energy Systems (NODES) Initiative” - Carlton Reeves, ARPA-E

“Incentive Based Control and Coordination of DERs” - Jason Fuller, PNNL

“Packetized Energy Management, A New Approach to DSM” - Mads Almassalkhi, University of Vermont

12:00 p.m. – 12:45 p.m. - Annual Membership Meeting (Members Only)

Location: Salon C

- Membership Meeting & Board of Directors Election

12:45 p.m. – 2:00 p.m. - Lunch

Location: Flying V Bar & Grill

2:00 p.m. – 3:30 p.m. - Session 3: DER Compensation

Moderator, Debbie Lew, GE

“Options for DER Compensation” - Ben Davis, Concentric

“Value of Solar Tariff” - Lise Trudeau, MN DOC

“The Changing World - A View From the Trenches” - Dallas Dukes, Tucson Electric Power

“A Solar Developer Point of View” - Jim Baak, Vote Solar

3:30 p.m. – 4:00 p.m. - Break

Location: Grand Ballroom Foyer

4:00 p.m. – 5:30 p.m. - Session 4: Advances in T&D Practice

Moderator, Will Kaul, Great River Energy

“An Update on IEEE 1547” - Jens Boemer, EPRI

“PV-Statcom – A Smart Inverter for T&D Applications” - Rajiv Varma, University of Western Ontario

“Storage Breakeven Cost Analysis” - Paul Denholm, NREL

“Impact of DER Interconnection and Operations at the T&D Interface” - Jim Painter, ONCOR

5:30 p.m. - Adjourn for the Day

6:30 p.m. – 8:00 p.m. - Annual Awards Reception

Location: Bill's Grill

Thursday, March 16, 2017

7:00 a.m. – 8:00 a.m. - Registration & Breakfast

Location: Grand Ballroom Foyer

8:00 a.m. – 12:30 p.m. - Spring Technical Workshop Program

Location: Salon C

8:00 a.m. – 10:00 a.m. - Session 5: System Planning for a High Renewables Future

Moderator, Jim McCalley, Iowa State University

“Role of Forecasting and Resource Assessment in the Power System of the Future” - Justin Sharp, Sharply Focused

“Co-optimization of HVDC Networks and Massive Renewable Generation Expansion” - Chris Clack, Vibrant Clean Energy

“Working Backwards: Maximizing Renewables Expansion in an Existing Network” - Jody Dillon, UC Dublin

“Modeling a HVAC/HVDC Transmission System with Massive Renewable Penetration” - Dennis Woodford, Electranix

“Interconnection-Wide Modeling: Needs, Concerns and Activities” - Dale Osborn, MISO

10:00 a.m. – 10:30 a.m. - Break

Location: Grand Ballroom Foyer

10:30 a.m. – 12:30 p.m. - Session 6: Preparing for a Low Inertia Power System

Moderator: Nick Miller, GE

“Implications for Future Low Inertia Power Systems” - Nick Miller, GE

“Interconnecting Wind Plants in Weak AC Grids” - Jason MacDowell, GE

“NERC Synchronous Inertia Sufficiency Guideline” - Julia Matevosjana, ERCOT

“Linking Unit Commitment with System Short Circuit Strength Evaluation” - Matt Richwine, GE

12:30 p.m. - Closing Remarks & Adjourn

Charlie Smith, UVIG