CERTS RELIABILITY & MARKETS (R&M)

Internal Program Review
August 4–5, 2015

Cornell University | Statler Hotel, Ballroom A&B
130 Statler Drive, Ithaca, NY 14853 | (607) 257-2500

Agenda

Tuesday, August 4, 2015

7:30 am   Morning refreshments available

7:45 am   Welcome, Introductions & Overview
        Bob Thomas, Cornell University
        Phil Overholt, Department of Energy

SESSION I

8:00 am   A Business model for retail aggregation of responsive load
        Shmuel Oren, UC Berkeley

8:45 am   Managing uncertainty in the modern power system
        Eilyan Bitar, Cornell

9:30 am   Restructuring the retail market to include load flexibility
        Anna Scaglione, Arizona State University

10:15 am   Break

SESSION II

10:30 am   Virtual bids and flexible bids: Risk mitigation and congestion relief
        Pravin Varaiya, UC Berkeley

11:15 am   Framework for assessing the impact of coordinated aggregation of DER on bulk power system performance
        Alejandro Dominguez-Garcia, University of Illinois, Urbana-Champaign

Noon   Lunch (Ballroom A)

SESSION III

12:45 pm   Dynamic reserve policies for market management systems
        Kory Hedman, Arizona State University

1:30 pm   Mapping Energy Futures: The SuperOPF Planning Tool
        Bill Schulze, Cornell

2:15 pm   Transmission Investment Assessment under Uncertainty
        Ben Hobbs, Johns Hopkins University

3:00 pm   Break

SESSION IV

3:15 pm   Probablistic forecast of real-time locational marginal price
        Lang Tong, Cornell

4:00 pm   On valuing system inertia and fast storage response
        Tom Overbye, University of Illinois, Urbana-Champaign

4:45 pm	Random topology power grid modeling and the automated simulation platform *Zhifang Wang, Virginia Commonwealth University*
5:30 pm	Adjourn Day 1

Wednesday, August 5, 2015

SESSION V

7:30 am	Morning refreshments available
8:15 am	Development and testing of new tools *Ray Zimmerman, Cornell*
9:00 am	Commercialization of the SuperOPF framework with CAISO *Hsiao-Dong Chiang, Cornell*
9:45 am	Investigation of advanced stochastic unit commitment solution for optimal management of uncertainty *Lindsay Anderson, Cornell*
10:30 pm	*Break*

SESSION VI

10:45 am	Efficient AC optimal power flow & global optimizer solutions *HyungSeon Oh, SUNY Buffalo*
11:30 am	Attribute-preserving optimal network reductions *Dan Tylavsky, Arizona State University*
12:15 pm	*Lunch (Ballroom A)*
1:30 pm	Breakout group presentations
1:45 pm	Group discussion of new programmatic directions and future research agenda *Bob Thomas, Phil Overholt, Joe Eto*
3:00 pm	*Adjourn*