

CERTS RELIABILITY & MARKETS (R&M)

Internal Program Review

June 9-10, 2016

Embassy Suites Crystal City

1300 Jefferson Davis Highway, Arlington, VA 22202

Agenda: Thursday, June 9, 2016

7:30 am Morning refreshments available

8:00 Welcome, Introductions & Overview
Bob Thomas, Cornell University
Phil Overholt, Department of Energy

SESSION I

8:15 A Business model for retail aggregation of responsive load
Shmuel Oren, UC Berkeley

9:00 Managing uncertainty in the modern power system
Eilyan Bitar, Cornell

9:45 Restructuring the retail market to include load flexibility
Anna Scaglione, Arizona State University

10:30 Break

SESSION II

10:45 Impact of coordinated aggregation of DER on bulk power system performance
Alejandro Dominguez-Garcia, University of Illinois, Urbana-Champaign

11:30 The New Sharing Economy for Tomorrow's Electricity Grid
Kameshwar Poolla, UC Berkeley

12:15 pm Lunch

SESSION III

1:30 Transmission Investment Assessment under Uncertainty
Ben Hobbs, Johns Hopkins University

2:15 Mapping Energy Futures: The SuperOPF Planning Tool
Bill Schulze, Cornell

3:00 Development and testing of new tools
Ray Zimmerman, Carlos Murillo-Sánchez

3:45 Break

SESSION IV

4:00 Advanced stochastic unit commitment solution for optimal management of uncertainty
Lindsay Anderson, Cornell

4:45 Attribute-preserving optimal network reductions
Dan Tylavsky, Arizona State University

5:30 Adjourn

6:30 No-Host Dinner: Jaleo

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SESSION V

8:00 Random topology power grid modeling and the automated simulation platform
Zhifang Wang

8:45 Probabilistic forecast of real-time locational marginal price
Lang Tong, Cornell

9:30 On valuing system inertia and fast storage response
Tom Overbye, University of Illinois, Urbana-Champaign

10:15 *Break*

SESSION VI

10:30 Efficient AC optimal power flow & global optimizer solutions
HyungSeon Oh, SUNY Buffalo

11:15 Dynamic reserve policies for market management systems
Kory Hedman, Arizona State University

Noon *Adjourn*