

CERTS RELIABILITY & MARKETS (R&M)

Internal Program Review

August 6-7, 2013

Cornell University | Statler Hotel | Ithaca, New York

List of Presentations

Tuesday, August 6th

1. **Assessing Transmission Investments Under Uncertainty**
Ben Hobbs, Johns Hopkins
2. **Coordinated Aggregation of Distributed Energy Resources**
Kameshwar Poolla, UC Berkeley
3. **Tools for Secure Planning and Operations of Systems**
Ray Zimmerman, Cornell
4. **Commercialization of the SuperOPF Framework: Phase 3**
Hsiao-Dong Chiang, Cornell
5. **An End-to-End Business Model for Retail Aggregation of Responsive Load**
Shmuel Oren, UC Berkeley
6. **ESP Network Reductions for Engineering and Economic Analysis**
Dan Tylavsky, University of Arizona
7. **Development of an Attribute Preserving Network Equivalent**
Tom Overbye, University of Illinois
8. **Investigation of Advanced Stochastic Unit Commitment Solutions**
Lindsay Anderson, Cornell
9. **Efficient AC Optimal Power Flow and Global Optimizer Solutions**
HyungSeon Oh, Cornell

Wednesday, August 7th

10. **Evaluating the Effects of Managing Controllable Demand and Distributed Energy Resources Locally on System Performance and Costs**
Tim Mount, Cornell
11. **Mapping Energy Futures: The SuperOPF Planning Tool**
Bill Schulze, Cornell
12. **Real-time Price Forecast with Big Data: A State Space Approach**
Lang Tong, Cornell
13. **The Nexus of System Reliability, Energy Costs, and the Environment During High Energy Demand Days**
Max Zhang, Cornell