CERTS RELIABILITY & MARKETS (R&M)

Internal Program Review
August 5–6, 2014

Cornell University | Statler Hotel, Ithaca, NY

List of Presentations

Tuesday, August 5, 2014

1. MATPOWER and Tools for Planning and Operation of Power Systems under Uncertainty
   Presenters: Ray Zimmerman, Carlos Murillo-Sánchez

2. Mapping Energy Futures: The SuperOPF Planning Tool
   Presenters: Dan Shawhan, Bill Schulze

3. Effects of Managing Controllable Demand and DER Locally on System Performance and Costs[1]
   Presenter: Tim Mount

4. Commercialization of the SuperOPF Framework: Phase 3[2]
   Presenter: Hsiao-Dong Chiang, Patrick Causgrove

5. Random Topology Power Grid Modeling and the Automated Simulation Platform[3]
   Presenter: Zhifang Wang

6. Transmission Investment Assessment under Uncertainty
   Presenters: Ben Hobbs, Saamrat Kasina, Pearl Donohoo, Emily Fisher

7. Coordinated Aggregation and Control of Distributed Energy Resources
   Presenter: Alejandro D. Dominguez-Garcia

8. Probablistic Forecast of Real-Time Locational Marginal Price
   Presenter: Lang Tong

9. Advanced Stochastic Unit Commitment Formulation for Management of Uncertainty
   Presenters: Lindsay Anderson, Gabriela Martinez

10. Dynamic Reserve Policies for Market Management Systems[4]
    Presenter: Kory Hedman

Wednesday, August 6, 2014

11. Business Model for Retail Aggregation of Responsive Load
    Presenter: Shmuel Oren

12. Efficient AC Optimal Power Flow & Global Optimizer Solutions
    Presenter: HyungSeon Oh

13. Development of Attribute Preserving Network Equivalents
    Presenter: Tom Overbye

14. ESP Network Reductions for Engineering and Economic Analysis[5]
    Presenter: Dan Tylavsky

15. Open Access Energy Storage[6]
    Presenter: Eilyan Bitar

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[1] Final report; project ended April 1, 2014
[2] Final report; project ended April 1, 2014
[3] New project started March 30, 2014; report on proposed direction only
[4] New project started March 30, 2014; report on proposed direction only
[5] Final report; project ended April 1, 2014
[6] New project; report on proposed direction only