



Data-Driven Energy Systems Conference Objectives

[Marija Ilićmilic@ece.cmu.edu](mailto:Marija.Ilicmilic@ece.cmu.edu)

Carnegie Mellon University

**8th CMU Electricity Conference,
March 13-14, 2012**

Acknowledgments

- ❖ **National Science Foundation** for a grant to support a National Conference in conjunction with the 8th CMU Electricity Conference

<http://www.ece.cmu.edu/~electricconf/>

- ❖ **SRC, OSISoft and ECE** at Carnegie Mellon Univ. for multiple support (financial, and in kind)

- ❖ **EESG folks** at Carnegie Mellon Univ.
<http://www.eesg.ece.cmu.edu/> for many hours of help.

Acknowledgments

❖ **Dick Schuler**, Cornell Univ. for Co-Organizing the Conference

❖ **Steering Committee**

-**Krishna Kant**, National Science Foundation

-**Bob Havemann**, Semiconductor Research Corporation Energy Research Initiative (SRC ERI)

-**Leonard Hyman**, Black & Veatch

-**Jose Moura**, Carnegie Mellon University, Information and Communication Technologies Institute (ICTI)

❖ **Ed Schlesinger**, ECE Department Head, Carnegie Mellon Univ.; **Claire, Leona and Joyce.**

Theme of this Conference:

Data-Driven Sustainable Energy Systems

- ❖ Rethinking what can be done with data
- ❖ **Potential for phase transition** in industry dynamics and the field of energy systems created by data availability
- ❖ From theory to practice
 - can develop model we test and trust
 - can sense, process and use data to efficiency, reliability, environmental and business sustainability

Major challenge and opportunity

- ❖ What to collect and why?
- ❖ Who can have it?
- ❖ How to use it?
- ❖ Why does it matter and how should we support the use of key data?
- ❖ CAN change the way energy systems of the future
- ❖ Need to develop the field of data-driven energy systems