

Energy Storage Conference

Past, Present, & Future of Battery Storage: Technological, Regulatory, and Marketplace Perspective

Agenda

August 30-31, 2016
Argonne National Laboratory, 240 TCS Conference Center
Hosted by:
Institute for Regulatory Policy Studies
Center for Renewable Energy
Argonne National Laboratory

TUESDAY, AUGUST 30, 2016

- 4:00 p.m. Tour of the Advanced Photon Source at Argonne National Laboratory
- 5:00 p.m. Networking Reception
- 7:00 p.m. Adjourn

WEDNESDAY, AUGUST 31, 2016

7:30 a.m. Registration and Continental Breakfast

- 8:00 a.m. **Welcome** – Dr. Alfred Sattelberger, Deputy Laboratory Director for Programs, Chief Research Officer, and Senior Intelligence Official at Argonne National Laboratory

Session 1: Overview of Battery Storage

- What is currently economically feasible with today's battery storage?
- What is currently being used on the grid?
- How is battery storage useful for enabling larger increases in renewable energy?

Moderator: Dr. David Loomis, Director, Institute for Regulatory Policy Studies and Center for Renewable Energy, Illinois State University

Speakers:

- Dr. George Crabtree, Director, Joint Center for Energy Storage Research (JCESR), Argonne National Laboratory
- Vladimir Koritarov, Deputy Director, Center for Energy, Environmental, and Economic Systems Analysis (CEESA), Argonne National Laboratory
- Ravi Manghani, Director, Energy Storage, GTM Research/Greentech Media
- William Tokash, Senior Research Analyst, Energy, Navigant Research

9:15 a.m. Break

9:30 a.m. Session 2: The Future of Battery Storage

- What new battery materials are being developed?
- When will new technologies be cheap enough for widespread adoption?
- What different uses will new technologies enable?

Moderator: Commissioner John Rosales, Illinois Commerce Commission

Speakers:

- Dr. George Crabtree, Director, Joint Center for Energy Storage Research (JCESR), Argonne National Laboratory
- Kevin Gallagher, Principal Chemical Engineer, Chemical Sciences and Engineering Division, Argonne National Laboratory
- Alex Luce, Program Manager, CalCharge

10:45 a.m. Break

11:00 a.m. Session 3: Marketplace Uses Now

- How are Utilities and IPP's deploying battery storage today?
- If this market opportunity closes, what new uses can be made of existing batteries?

Moderator: Commissioner Ann McCabe, Illinois Commerce Commission

Speakers:

- Christopher Orzel, Storage Engineering, Invenergy LLC
- Manuel Avendaño, Manager, Emerging Technology, Smart Grid & Technology, ComEd
- Mark Johnson, Smart Cities Chief, Schneider Electric

12:15 p.m. LUNCH

1:15 p.m. Session 4: Storage and Renewables

- How can battery storage help with ramping events such as the "duck curve?"
- What is the forecast for wind and solar penetration and will affordable storage enable higher forecasts?
- What parts of the country will experience the intersection of renewables and battery storage first?

Moderator: Dr. David Loomis, Director, Institute for Regulatory Policy Studies and Center for Renewable Energy, Illinois State University

Speakers:

- Jesse Jenkins, Graduate Researcher, Massachusetts Institute of Technology
- Marc Thrum, Vice President, Marketing & Business Development, Intelligent Generation
- Audrey Lee, Vice President, Analytics and Design, Advanced Microgrid Solutions

2:30 p.m. Break

2:45 p.m. Session 5: Creating a Marketplace for Storage

- What functions can battery storage handle in the future?
- What regulatory changes are needed to create a market for these functions?
- How much will consumers benefit from battery storage?

Moderator: Dr. Philip O'Connor, President, PROactive Strategies, Inc.

Speakers:

- Craig Glazer, Vice President, Federal Government Policy, PJM
- Tom Dautel, Supervisory Economist, FERC
- Jessica Harrison, Director of Market Research and Development, MISO

4:00 p.m. Wrap-Up

4:30 p.m. Close