

An Overview of the SGIP's White Paper on Deploying Distributed Energy Resources

Amanda Stallings
Public Utilities Commission of Ohio

2015 National Town Meeting

SGIP SMART GRID INTEROPERABILITY PANEL

Accelerating Grid Modernization

More information available on SGIP.org

Disclaimers

Today's discussion focuses on the collaborative white paper developed by the Smart Grid Interoperability Panel (herein referred to as "the white paper").

The views expressed today are those of my own and those expressed in the white paper by the members of the SGIP. They do not represent the views of the Public Utilities Commission of Ohio or its Staff.

SGIP Overview

- The Smart Grid Interoperability Panel
  - Est. 2009 by NIST
  - Mission: **To accelerate the implementation of interoperable Smart Grid devices and systems.**
  - Driven by 5 “interest categories”:
    - Manufacturers
    - Asset Owners
    - Service Providers & System Administrators
    - Consumers, Policy & Government
    - Standards Development Organizations, Consortia

White Paper Overview

- Initiated in 2012 under the direction of Dr. Stanley A. Klein, Principal Manager, Open Secure Energy Control Systems, LLC.
- Leadership transferred to Amanda Stallings after Dr. Klein's untimely passing in early 2013.
- Two Key Areas Addressed:
  - Financial
  - Technical

Key Participants:

- NIST
- FERC
- California, Iowa, and Ohio PUCs
- Southern Co.
- NEMA
- SunSpec Alliance
- GridWise Architecture Council
- SAE International
- Various technical consultants

Purpose and Scope

- Purpose:
  - To equip decision makers with the information, but NOT the ultimate solutions, for those DER issues that continually resurface.
- Scope:
  - Those issues that could present a challenge to regulators as states continue to adopt and support smart grid technologies.

Financial Challenges

- The right model for the right market
- Compensation related to net metering
- Balancing DER compensation with stakeholder impacts
- Market Equality
- Regulatory environmental issues related to cost

Technical Challenges

- New technologies
- Advances in smart inverters
- Photovoltaic Systems
- Microgrids
- Plug-in Electric Vehicles
- Combined Heat and Power

Additional Considerations

- Grid reliability and stability
- Provision and compensation for ancillary services
- Resiliency issues

Now Available for Download:

http://sgip.org/Publication-Regulatory-Challenges

For more information:

Smart Grid Interoperability Panel:
401 Edgewater Place
Suite 600
Wakefield, MA 01880
Phone: +1-781-876-8857
Fax: +1-781-623-0740
Email: info@sgip.org
Website: www.sgip.org

Thank you for your attention!

Questions?

Amanda Stallings
Amanda.Stallings@puc.state.oh.us
614-466-7947