

NYS

**SmartGrid
Consortium**

NESEA BuildingEnergy14 Conference

**Panel:
Aiming for Greatness
Learning to Love the Smart Grid**

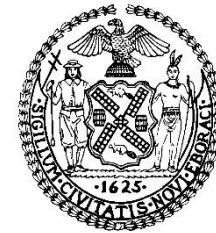
March 6, 2014

Boston, MA





Consortium Overview



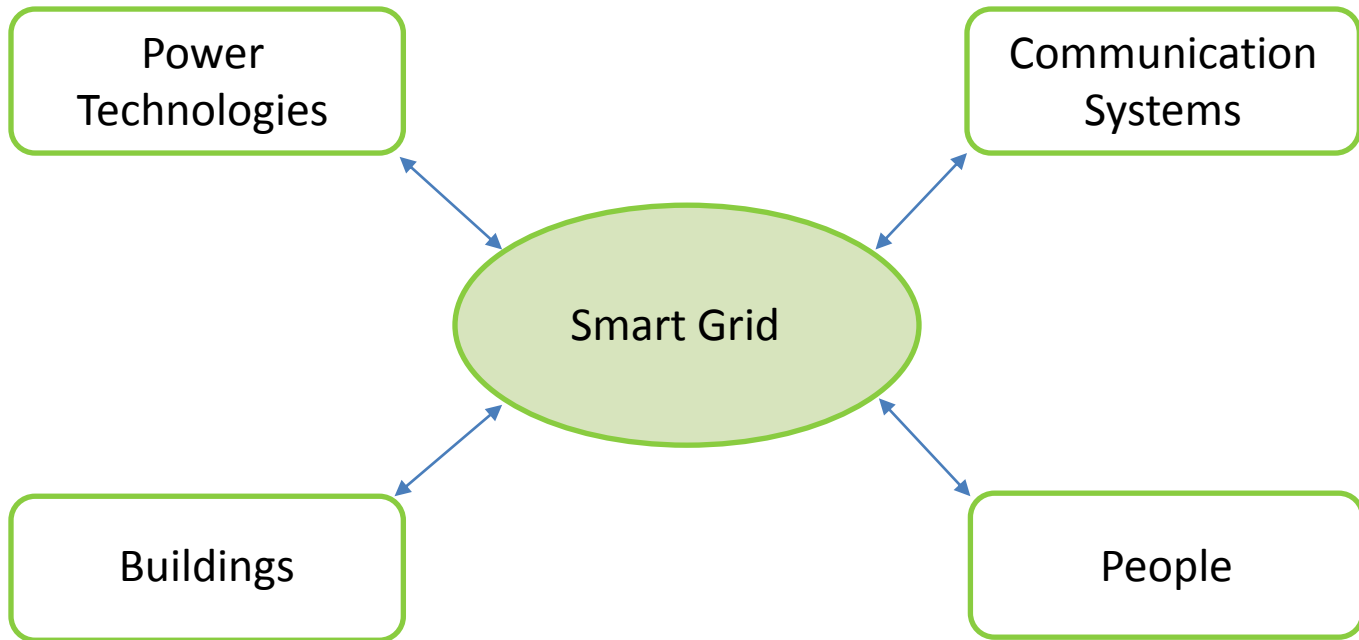


Consortium Mission

Ongoing advocacy of Smart Grid / grid modernization

- Identify and communicate aggregate needs of member organizations
- Maintain vision of future grid
- Advocate benefits for producers, suppliers, and consumers of power
- Support initiatives that demonstrate capabilities of the smart grid
- Educate public, regulators, and policy makers
- Priorities for 2014:
 - Real world projects
 - Utility of the Future
 - Strengthen research and international collaboration

What is the “Smart Grid”?



Drivers of Change

Key Drivers

- Technology, climate change, and demands for resiliency and security
- Integration of distributed resources
- Changing consumer expectations and demands
- Days of “command and control” and “managing consumer expectations” are over



Utility 2.0

The Future of the Distribution Utility

“Business as usual” is no longer acceptable

- ✱ Decentralized -> increase in security and flexibility
- ✱ Customers more engaged and integrated
- ✱ Future grid planning will be open and transparent
- ✱ Need to attract private sector innovation and capital



Microgrids: Microcosm of Future Utility

Can demonstrate:

- New technologies
- New business and regulatory models
- New planning approaches
- Showcase the potential end state

Need to get real world projects up and running

Community Microgrids

Influential efforts in Europe

- Czech Republic
- United Kingdom



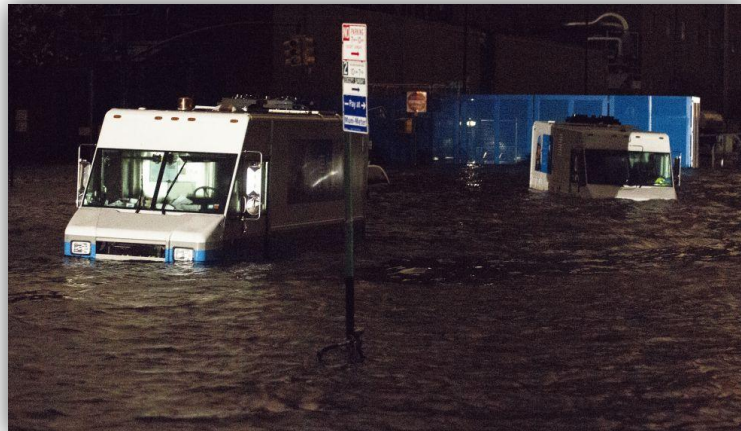
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Community Microgrids

New York Initiatives

- Post Hurricane Sandy Demonstration Projects
- NY Rising
- NY Prize



Next Steps

Utility 2.0

- Develop performance-based rating mechanisms and metrics
- Improve cost benefit methodologies to consider indirect economic and social benefits
- Identify utility business models to leverage private sector expertise and capital
- Create screening criteria to identify priority microgrid opportunities
- Update DG interconnection standards, standby tariffs, and laws governing resale of power to ensure appropriate for microgrid and district energy applications

Next Steps

Utility 2.0

- Update existing utility systems by deploying new technologies and services
 - Examples: Distribution and Outage Management Systems, Smarter meters, Billing system enhancements
- Revamp pricing of power to consumers and design of utility cost recovery mechanisms
- Get real world demonstration projects up and operating



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