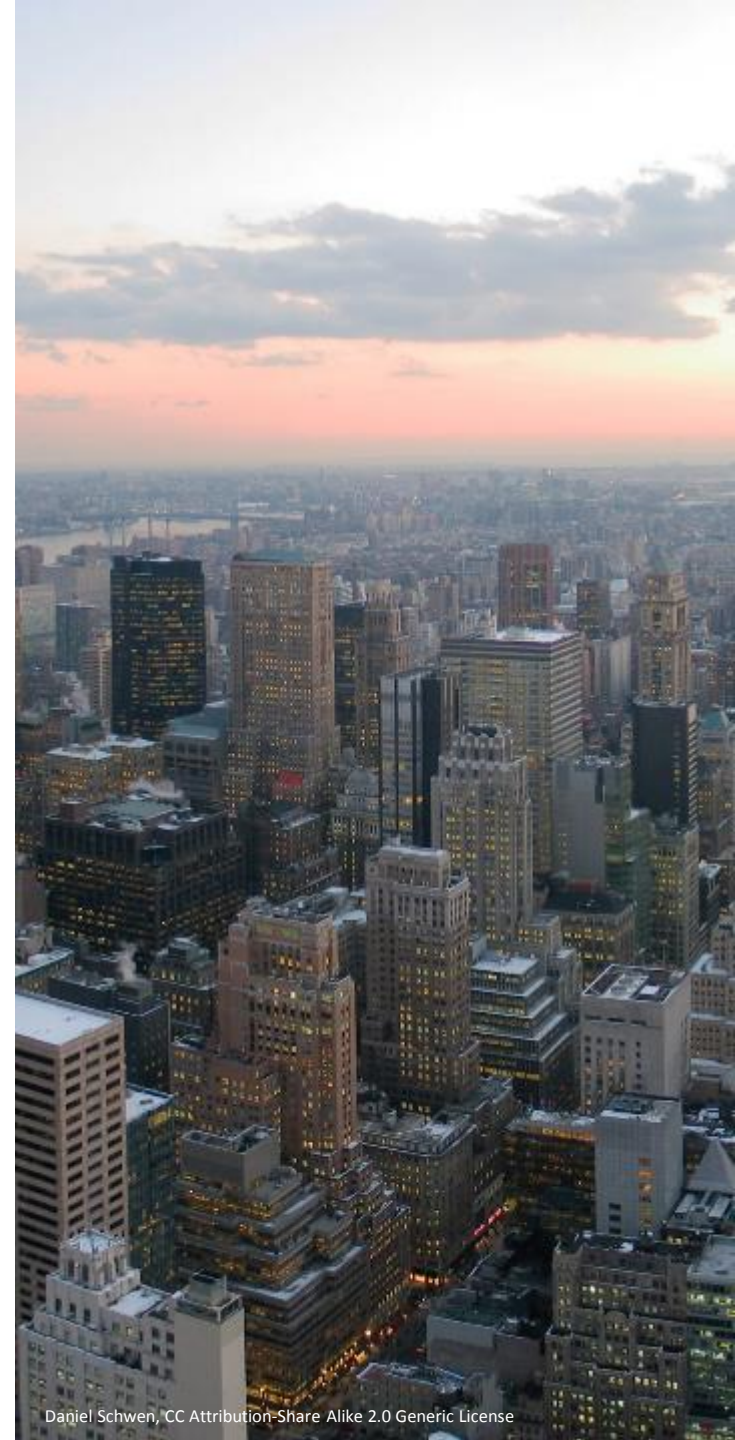




New Technologies, Practices, and Policies to Transform Retail Energy Markets

New England Electricity Restructuring Roundtable
February 26, 2016

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Consortium



Consortium Members



Generating more than electricity



NYS Smart Grid Consortium Overview

Unique Public-Private Partnership

- Promotes broad statewide implementation of a safe, secure, and reliable smart grid
- Members include world's leading utilities, technology providers, policy makers and research institutions
- Established in 2009 as a not-for-profit corporation
- Only organization of its kind in the US

NY Reforming the Energy Vision (REV)

Fundamental Changes in Distribution Service

- Align utility practices and regulation with technological advances in information management, pricing, power generation and distribution
- Improve system efficiency, empower customer choice, and encourage greater penetration of clean generation and energy efficient technologies and practices. Must be customer centric!
- Introduce new business models (reduce risk, new capital)

REV – Distribution System Platform

Overview of DSP

- Design and operate distribution system that integrates DERs as major means of meeting system and customer needs
- Optimize operations by balancing production and load in real time – at the local level
- Monetize system & social values
- Use market based means where appropriate, leverage outside capital
- Coordinate interactions among customers, the distribution system and energy service companies (DSP markets and NYISO)



REV Market Design & Platform Technology Groups (MDPT)

Purpose

Provide guidance for utility 5 year Distributed System Implementation Plans (DSIPs) on near- and mid-term market design and platform technology issues

Process

- Two working groups: Market Design and Platform Technology
- Final Report issued August 17, 2015
- Expert Advisory Group
- Co-led by NYS Smart Grid Consortium, NYPSC and RMI

MDTP Working Groups

Final Report: Key Functions and Capabilities of DSP

- Enhance Distribution Planning
- Expand Distribution Grid Operations
- Develop and Implement Market Operations
- Ensure Data Availability
- Necessary Platform and Customer Technologies

AMI Deployment --

Con Edison AMI Business Plan October 2015

- 4.7 million meters - gas and electric customers
 - ◆ Complete communications and IT work in 2016 (approved)
 - ◆ Deploy meters 2017 to 2022 (pending approval)
 - ◆ 5000 meters per day installation rate
- \$1.3 billion
 - ◆ Biggest project in Con Edison's 190-year history
 - ◆ 1.5 billion data points daily
- AMI for residential sector has positive 20 year NPV
- "We don't think REV can happen without this Project- Con Ed"

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