

REV and Demonstration Projects

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NYS PSC's Reforming the Energy Vision Proceeding (14-M-0101) is About:



Empowering
Customers to Better
Manage Their Energy
Use...



...through Animating
Markets for Distributed
Energy Resources...



...to Achieve Higher
System Efficiency, Lower
Environmental Impacts and
Increased Affordability.

Establishing the Distributed System Platform (DSP):

DSP

- ❑ Intelligent Network Platform
- ❑ Obligation and Incentive to Integrate DER
- ❑ DER Providers as Customers and Partners
- ❑ Fair, Open, and Transparent Transactive Markets

DSP

Responsibilities

- ❑ Integrated System Planning
- ❑ Grid Operations
- ❑ Market Operations, Structure & Products

DSP Provider

- ❑ Utilities will be the DSP Providers
- ❑ Represents an Expansion of Existing Obligations
- ❑ Will be Supported through Track Two Business Model Changes

Animating the Market:

Goal: Create market confidence and build the DER asset base in the near-term

System Data

- Distributed System Implementation Plans (DSIPs) will Provide System Planning Information
- DSP will Provide System Data at the Level of Granularity and Timeliness Appropriate for the Market
- Utilities can Charge Fees for Value-added Data Analysis

Market Power

- Utilities Cannot Own DERs Except in Very Limited Cases
- Consider Functional Separation
- PSC Monitoring & Recourse
- Create Market Oversight Committee

Early Actions

- Demand Response Tariffs
- Demonstration Projects
- Non-Wires Alternative Projects

Project Submission

- Initial demonstration projects filed on July 1, 2015
- 12 project proposals were received, 10 currently in compliance
- Projects fall into three main categories:
 - Customer Engagement via Digital Marketplaces
 - Modifying Grid Operations
 - Community / LMI Engagement
- All projects include partnership aspects

Digital Marketplaces

- Con Edison CONnectED Homes
 - Deep set of customer engagement tools
- O&R Residential Marketplace
 - Broad selection of products and 3rd party services available
- RG&E Marketplace
- Central Hudson CenHub
 - Elements of gameification, and option for deeper energy analysis and time-varying rates
- Con Edison Building Efficiency Marketplace
 - Virtual commercial building energy audits and targeted marketing for highest-potential customers

Modifying Grid Operations

- National Grid Potsdam Resiliency
 - Hybrid customer/utility shared business model for microgrids
- Con Edison Clean Virtual Power Plant
 - Aggregated, “firmed”, solar + storage capacity to be sold in NYISO capacity market
- NYSEG Flexible Interconnect Capacity Solution
 - DG customers agree to curtailment to avoid costly interconnection upgrades
- National Grid Distributed System Platform*
 - Test of DSP operations and market design at the Buffalo-Niagara Medical Campus

Community / LMI Engagement

- NYSEG Community Energy Coordination
 - Deep engagement with communities to identify energy goals and procure energy-services to meet them
- National Grid Fruit Belt Solar
 - LMI initiative helps customers afford their energy bills while creating distribution system benefits
- National Grid Clifton Park Customer Convenience*
 - Reduce barriers to DER and EE adoption in median/higher income neighborhood by making energy savings simple and convenient for customers

Next Steps

- Monitor existing projects and revise as necessary
- Continue development of new demonstration projects
 - Each utility continues to develop a project pipeline
 - Con Edison issued RFP for battery storage demo projects and has plans for two other RFPs in 2016; LMI and Electric Vehicles.
 - Establishment of REV Connect - central forum for project ideas to be submitted and expert guidance, feedback and facilitation to be received; ultimately, matching ideas with customers, communities, and utilities