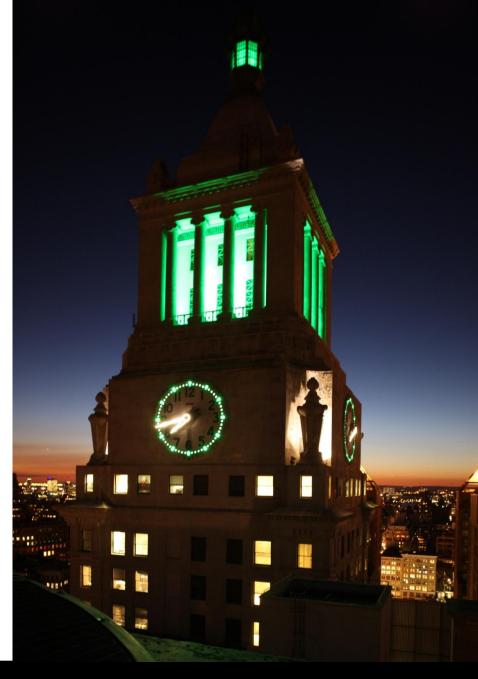
Network Deferral Benefits of Energy Efficiency

Rebecca Craft

Director, Energy Efficiency and Demand Management

Con Edison



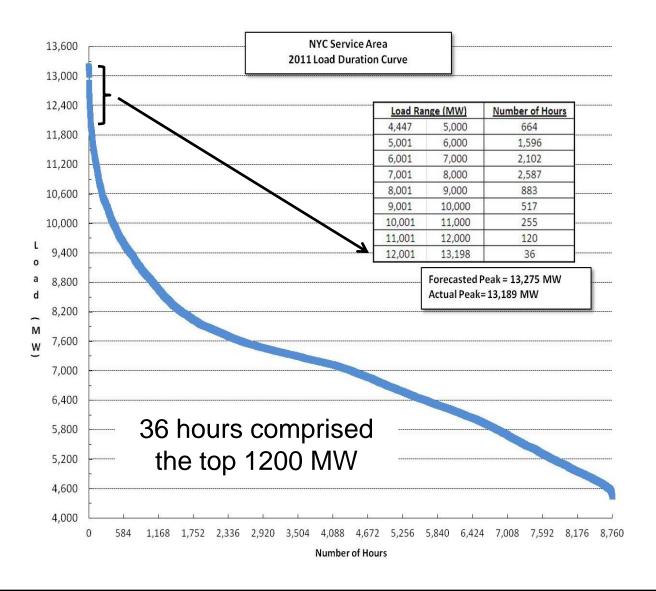
Con Edison – The Landscape

- 70,000 people/sq. mile
- 2000 MW/sq. mile

- 660 sq. mile service territory
 - 133,000 miles of T&D cable (over 96,000 miles are underground)
- 13,825 people/sq. mile
- 20 MW/sq. mile
- 3.3 million electric, 1.1 million gas, and 1,700 steam accounts; serve about 9 million people
- Over 650,000,000 sq. ft. of office space
- 462,000 businesses
- 900,000 residential buildings
- 58 billion kWh of electric consumption



Demand Reduction Significance





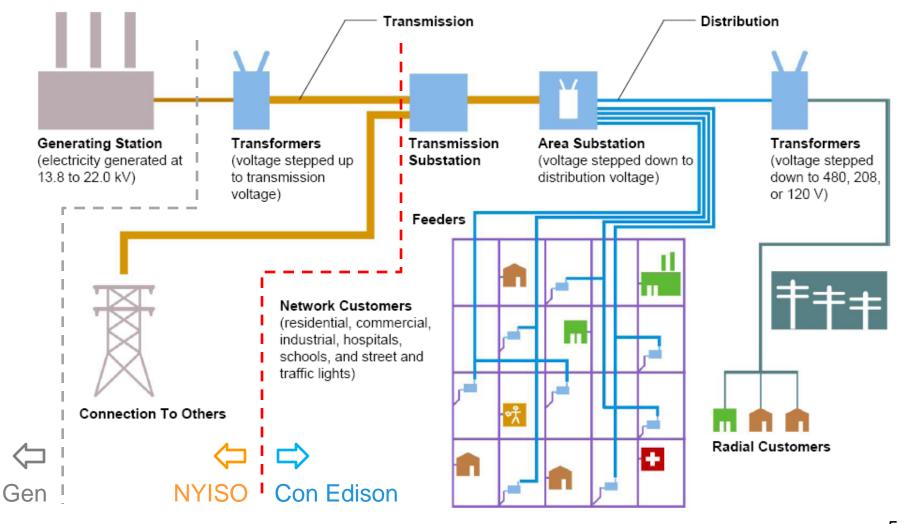
Over the last 12 years...

...CHANGE

2004-2008 2009-2010 2000 2002-2004 2011- DR & DG included in Market Targeted Targeted EEPS **DSM** DSM Restructured forecasting and system **Programs** contracts for begin planning Program Generation begins cap ex CVO Forecasting assets deferrals divested Demand incorporates 3G system design all EE Contracted Response Transmission Portfolio approach MW included programs in programs assets under Load Shaping begin in forecasts service **NYISO** and planning territory Con Edison distribution only



The Electric System - Restructured





Targeted Demand Side Management

EXAMPLE PROJECT:

Project: Install 3rd transformer and 138 kV supply feeder

Cost: \$29 million

Deferral: 2007 to 2010

| Shortfall (MW)* | May 1 2006 | May 1 2007 | May 1 2008 | May 1 2009 | May 1 2010 |
|-------------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Shortfall (Incremental) | 0 | 3 | 4 | 4 | 3 |
| Contracted (Cumulative) | 0 | 3 | 7 | 11 | 14 |
| Achieved (Cumulative) | 2 | 4 | 8 | 12 | 14 |

RFP: Sept 2005

Contract: Nov 2005 – May 2010

Savings: \$44 million (\$13.5 T&D savings)

TRC: 2.6 (benefit/cost)

^{*} Shortfalls, contracted, and achieved MW are as of May 1st each year (prior to the need each summer period)



Forecasts include Energy Efficiency and Demand Response Programs

Network locations known

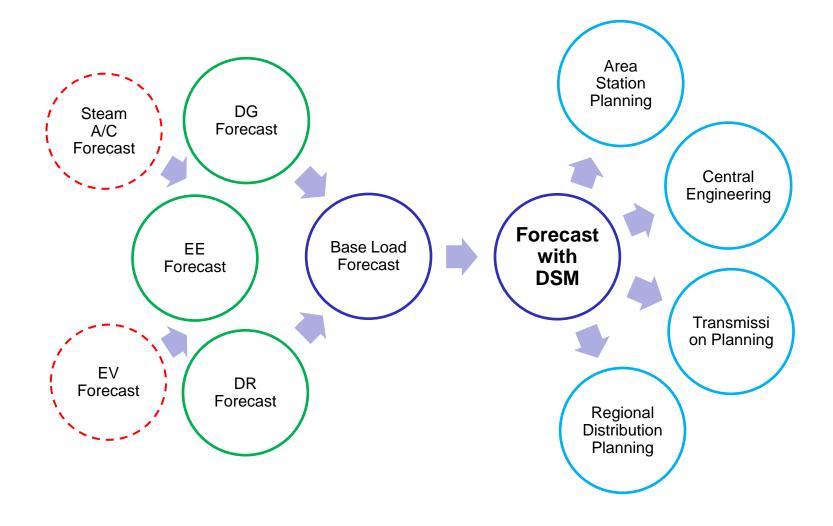
- CE Targeted
- NYPA projects
- DR Customers
 - DG Assets

Network locations unknown

- CE EEPS programs
- NYSERDA programs



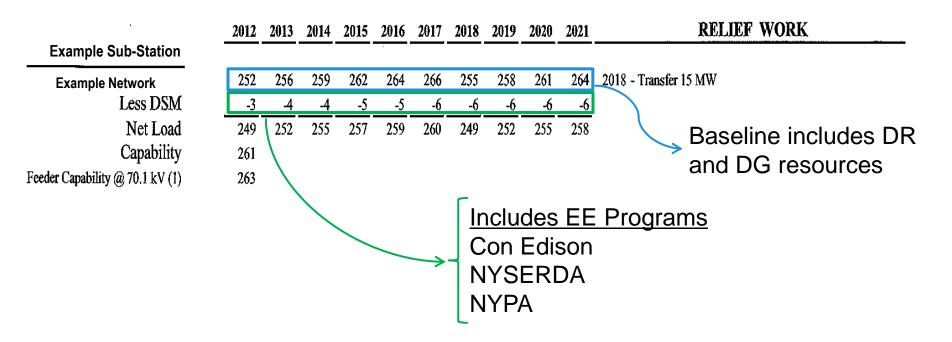
Forecasting and Planning Groups





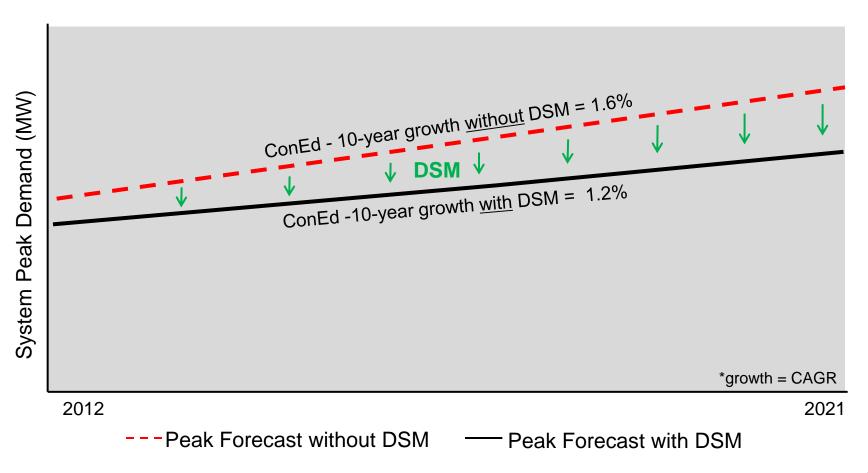
Forecasted EE, DR, and DG are included in electric system planning

 Sample network information from the load relief program, including forecasted DSM (EE/DR/DG)





Long-Term Impact of DSM





The Future

