



Department
of Public Service

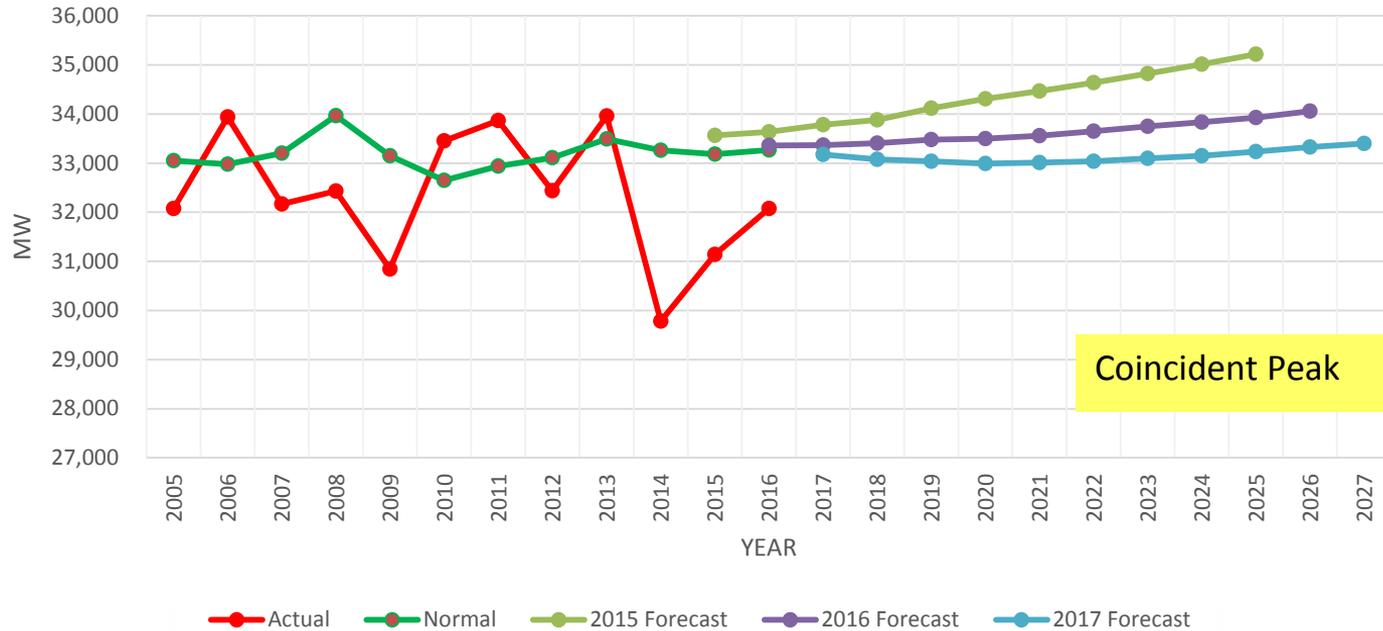
2017 Summer Preparedness

May 18, 2017

2017 Summer Preparedness
New York State
**Electric System
Preparedness**

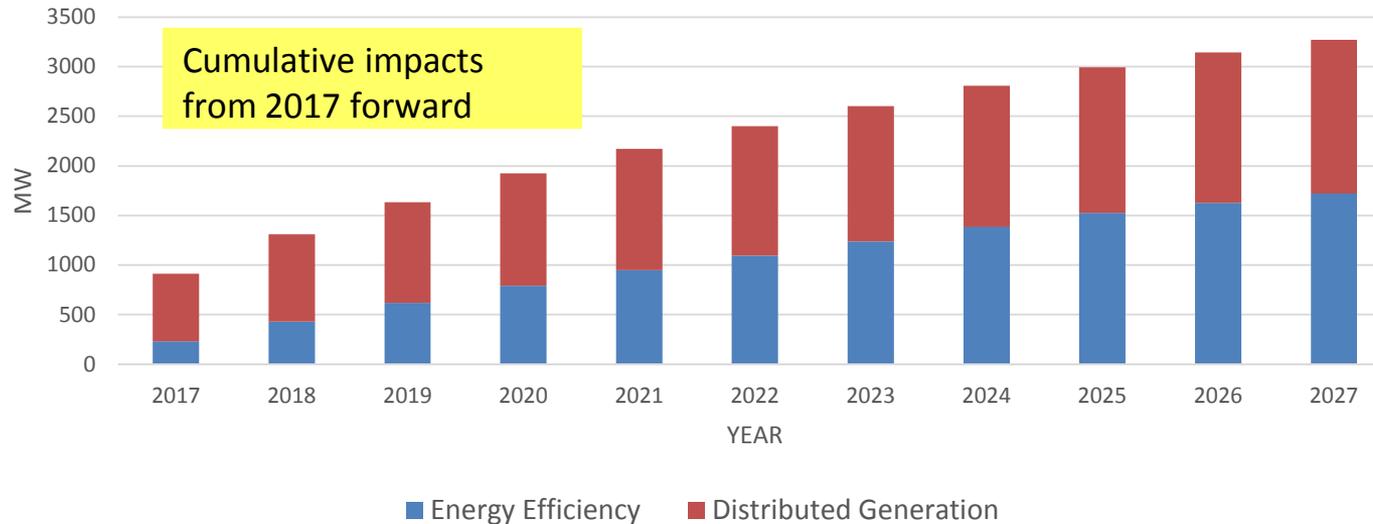
Historical Actual, Normal, & Forecast – Summer Peak(MW)

Actual, Normal, & Forecast - Summer Peak (MW)
NYCA Base Case - With Energy Program Impacts



Forecast Impact on Summer Peak Demand (MW) of Energy Efficiency and Distributed Generation

Energy Program Impacts - Summer Peak (MW)
NYCA



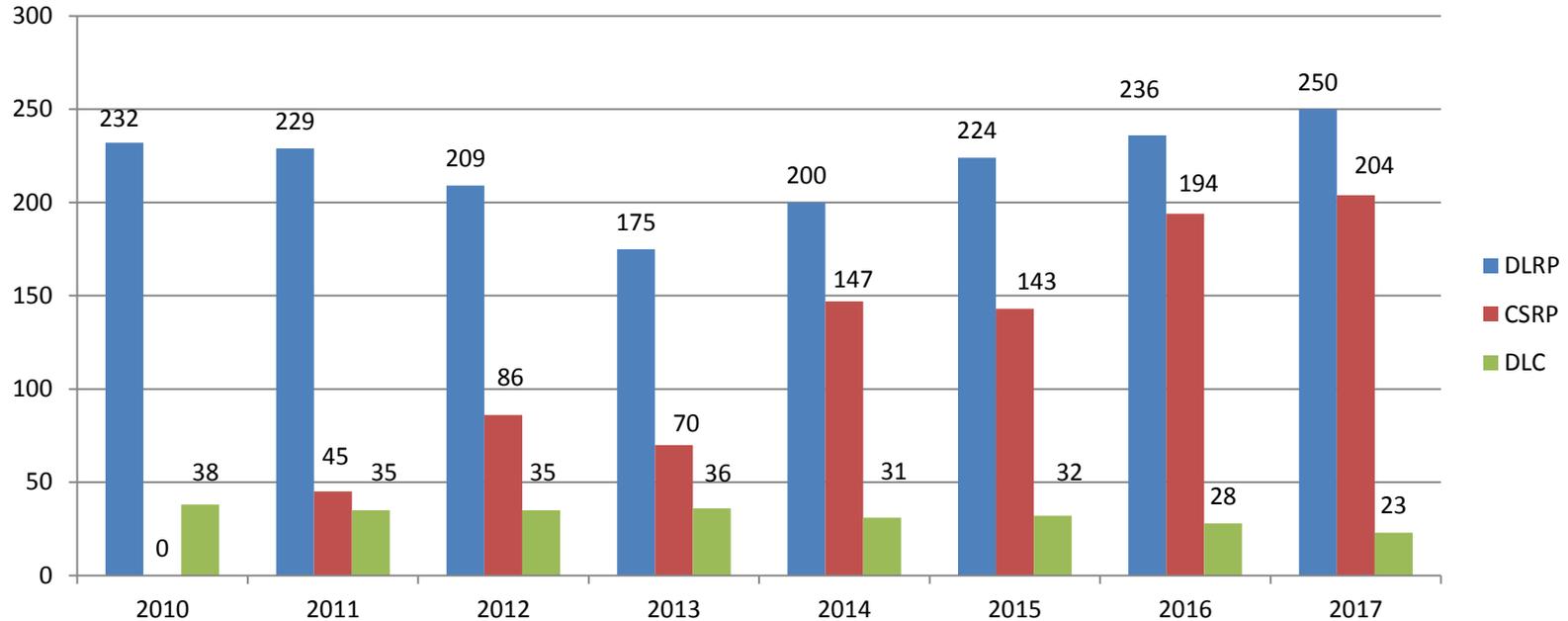
2017 Summer Capability

	2016	2017
Installed Generation Capacity	38,535	37,609
Demand Response – Special Case Resources (SCRs)	<u>1,248</u>	<u>1,192</u>
Total NY Control Area (NYCA) Internal Capability	39,783	38,801
Net Firm Purchase Imports	<u>1,769</u>	<u>2,213</u>
Total Capability	41,552	41,013

NYS Peak Demand and Installed Reserve Margin

	Forecast
Demand Forecast	33,178 MW
18% Required Installed Reserve Margin (IRM)	5,972 MW
Total Capability Requirement	39,150MW
Total Capability This Summer	41,013 MW
Surplus (Capability Above Requirement)	1,863 MW
Capability Versus Demand Forecast (%)	123.6%

Con Edison: Load Relief Programs



DLRP – Distribution Load Relief Program
 CSRP – Commercial System Relief Program
 DLC – Direct Load Control Program

Utility Transmission and Distribution Systems Preparedness

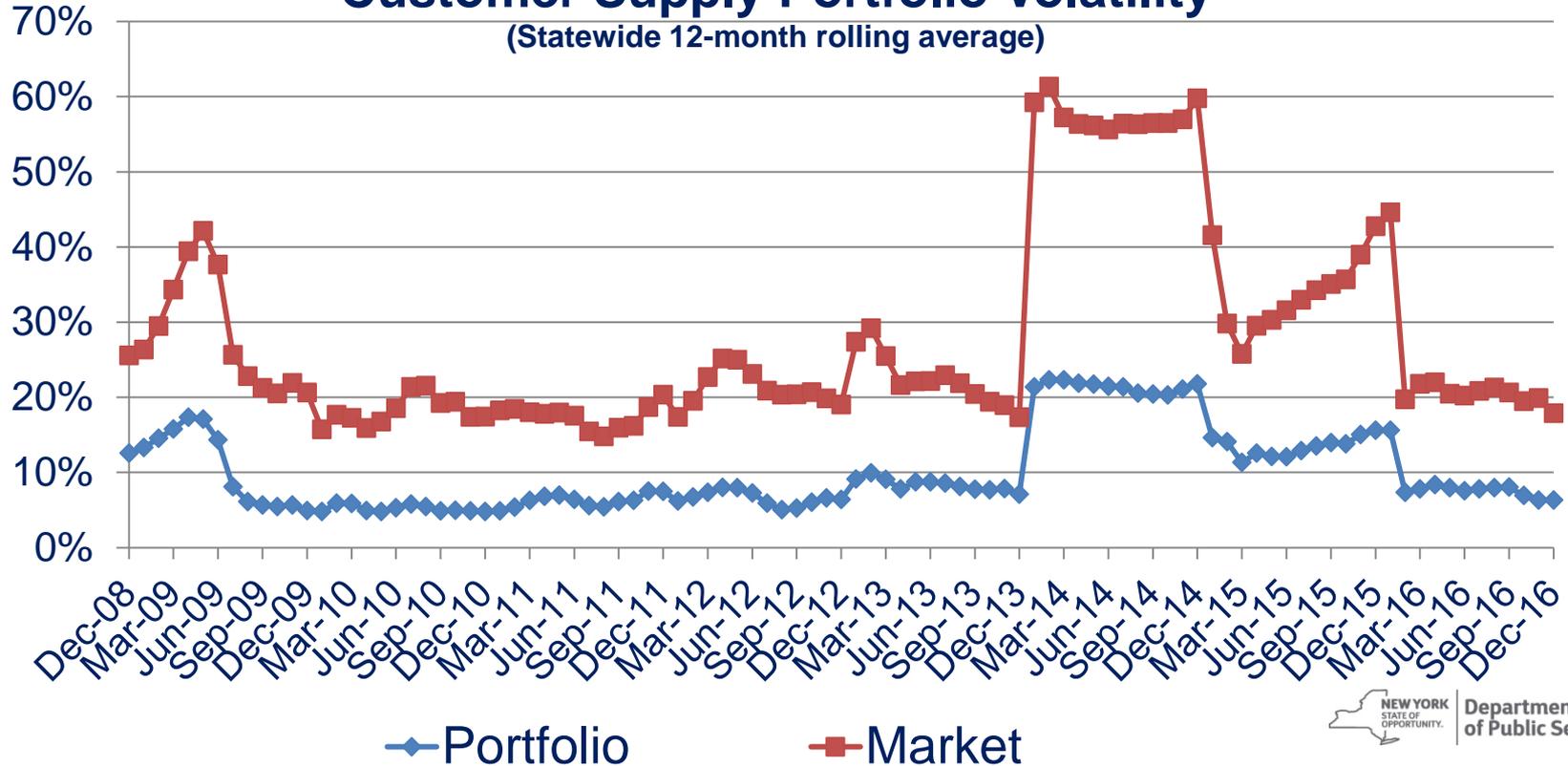
- **Surveys** - Discussed responses to preparedness survey with each utility
- **Work** - All planned reinforcements, inspections, and repairs are or will be completed
- **Spares** - Each utility has adequate spare equipment on hand
- **Planned Outages** - Major generator and transmission planned outages require NYISO approval, and are avoided during peak periods
- **Meeting Demand** - Each utility expects to meet peak demand with all lines and generators in service
- **Meeting Criteria** - Each meets NPCC and NYSRC operating criteria
- **Mitigation** – NYISO and each utility have operating procedures to mitigate reliability issues

**2017 Summer Preparedness
New York State
Electric Portfolio, Volatility,
and Supply Price Outlook**

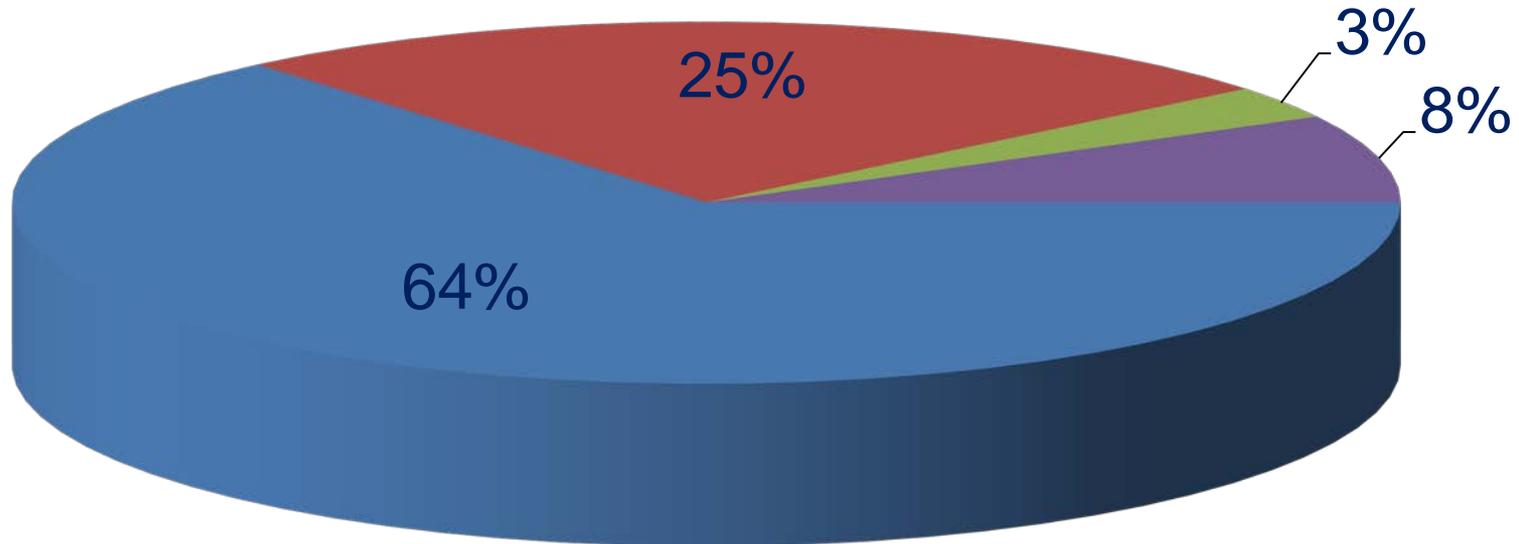
NYISO Spot Market vs. Utility Full Service Residential Customer Supply Portfolio Volatility

(Statewide 12-month rolling average)

Coefficient of Variation

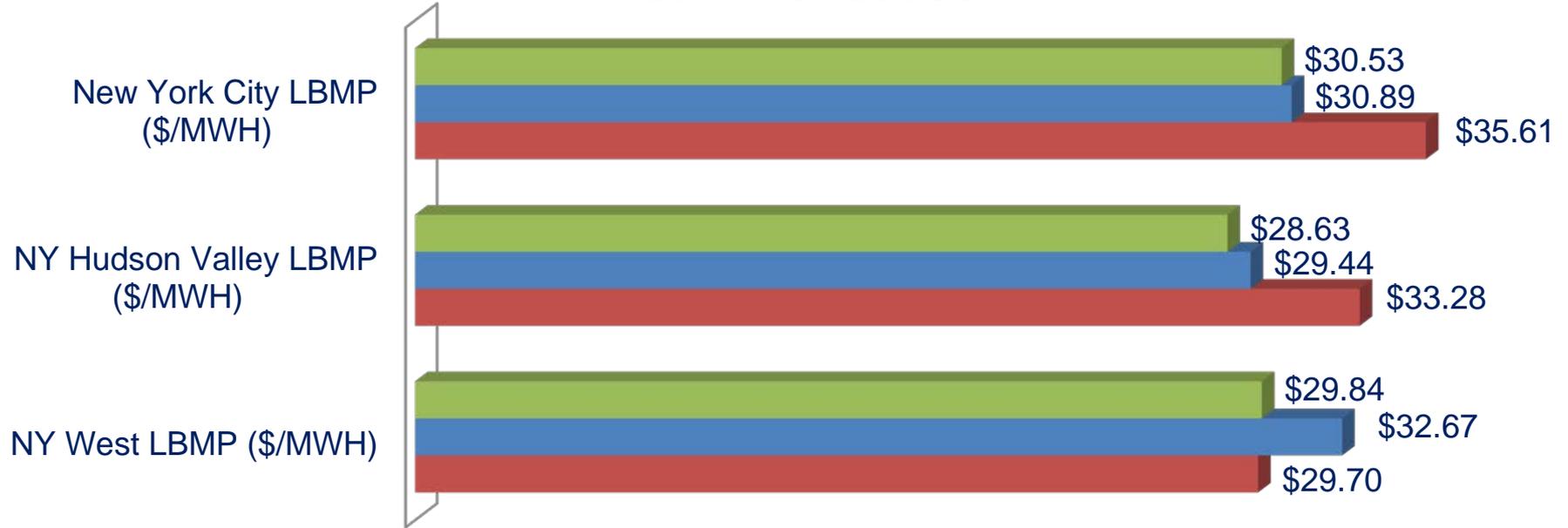


New York State Electric Supply Portfolio Full Service Residential (Summer 2017)



- Fixed Price
- Market Price
- Unhedged Generation
- Index Price

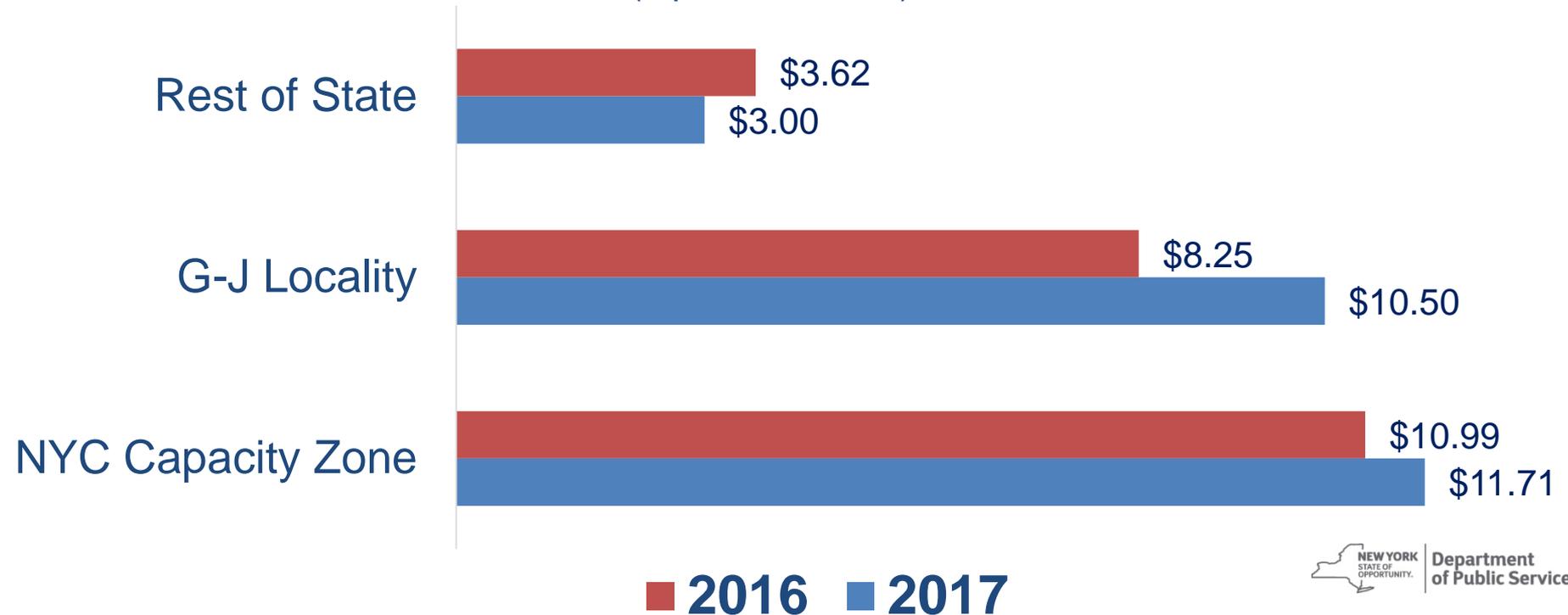
Average Energy Price Comparison Summer Season



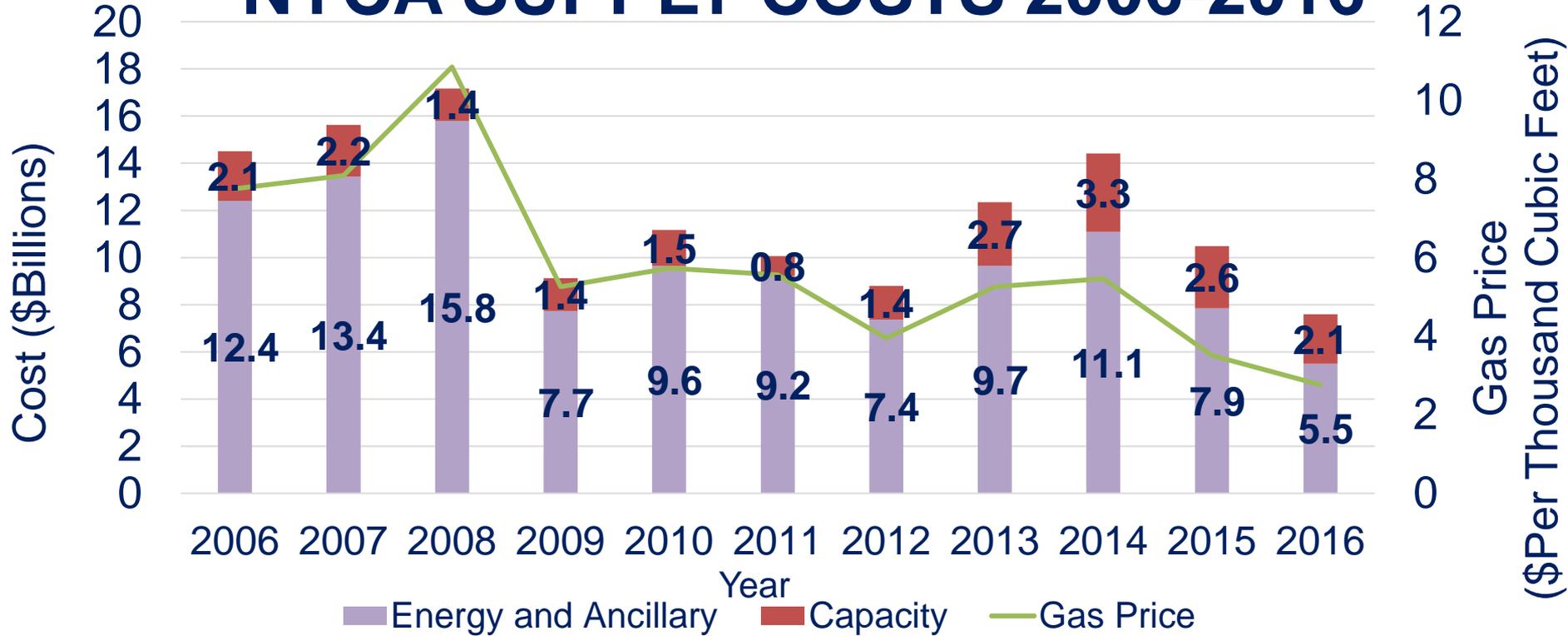
- NYMEX Futures June-September, 2016
- Average Day-Ahead Market June-September, 2016
- NYMEX Futures June-September, 2017

Summer Strip Auction Capacity Prices

(\$ per kW-month)



NYCA SUPPLY COSTS 2006-2016



*Capacity computations performed by DPS Staff using published NYISO Capacity Auction results
 **Energy and Ancillary computation performed by DPS Staff using NYISO Monthly reports and 2016 NYISO Gold Book
 *** All Supply costs are priced at market; note that bilateral contract prices may differ from current market prices
 ****Gas Price is EIA Average Gas price For New York Power Consumer