



Department  
of Public Service

# 2017 Summer Preparedness

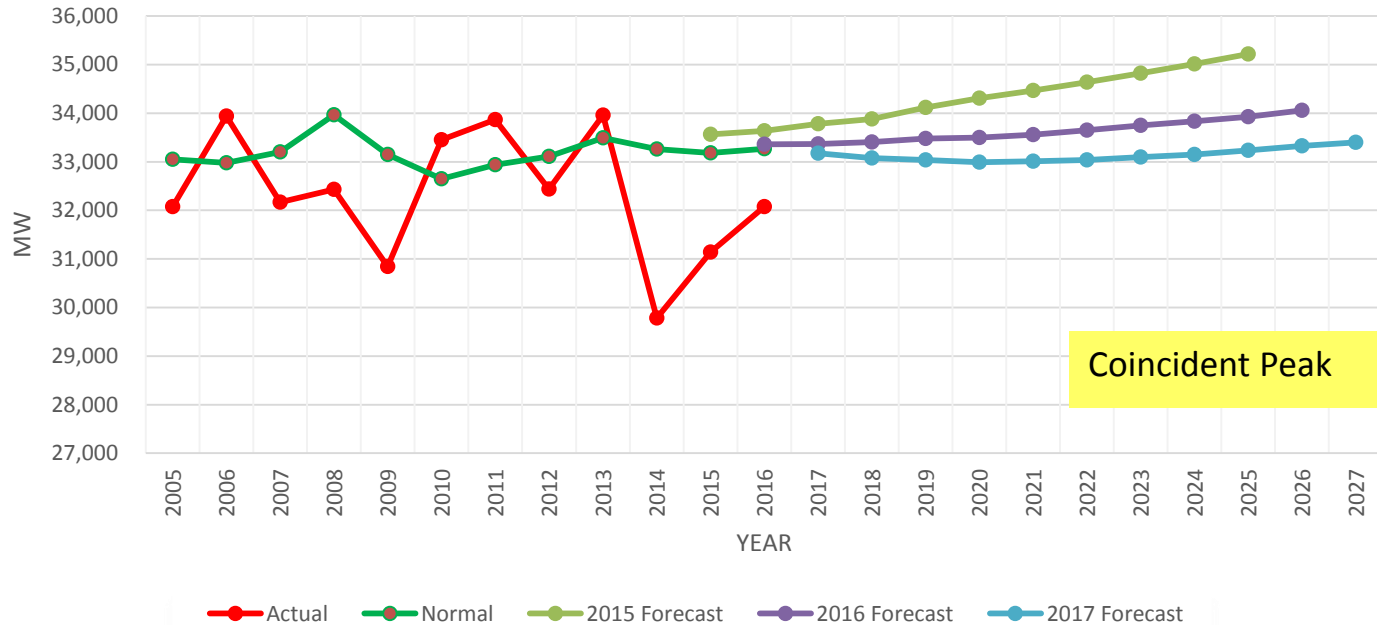
May 18, 2017

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

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

## Actual, Normal, & Forecast - Summer Peak (MW)

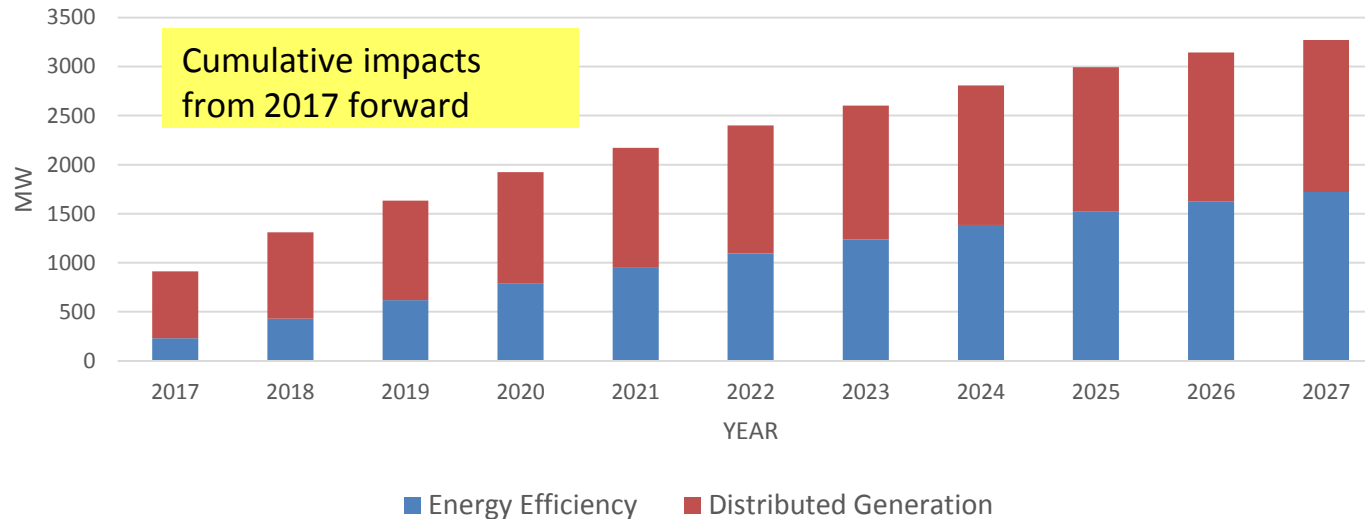
NYCA Base Case - With Energy Program Impacts



Source: NYISO

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

Energy Program Impacts - Summer Peak (MW)  
NYCA



# 2016 Summer Capability

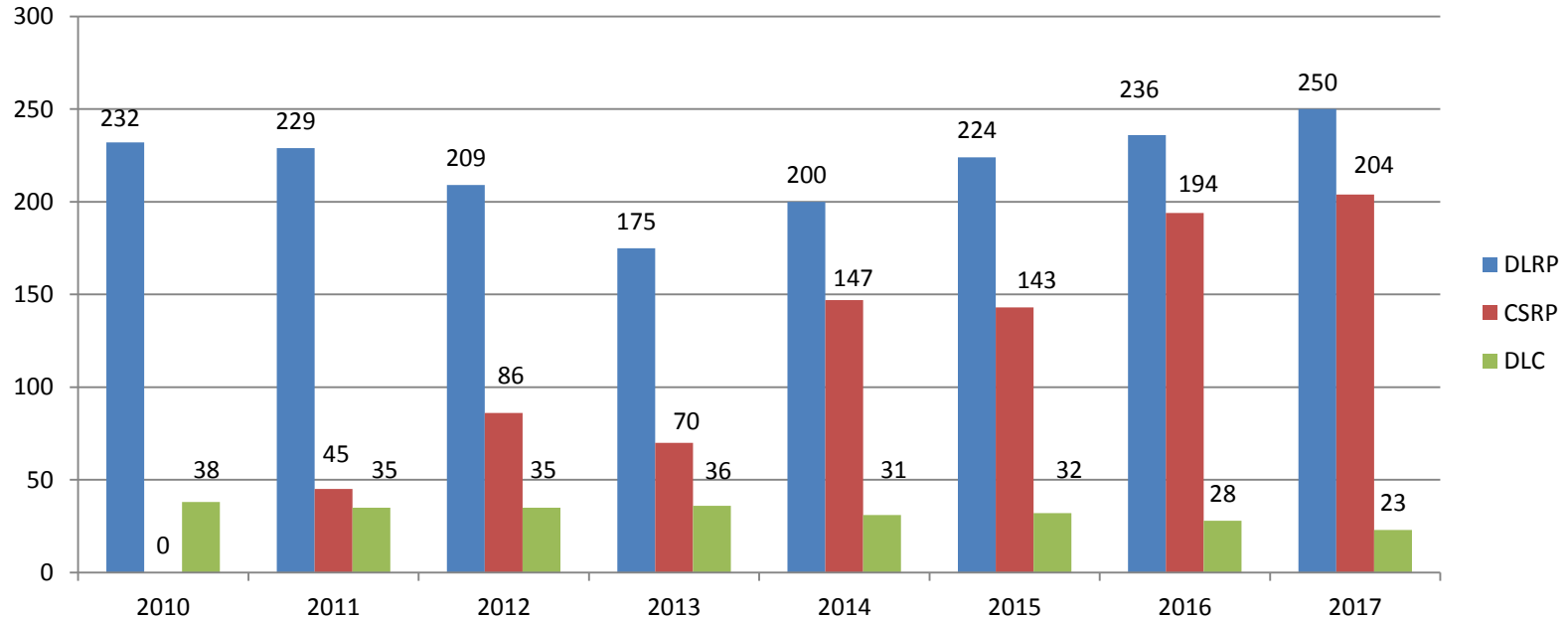
	2016	2017
Installed Generation Capacity	38,535	37,609
Demand Response – Special Case Resources (SCRs)	<u>1,248</u>	<u>1,192</u>
Total NY Control Area (NYCA) Internal Capability	39,783	38,801
Net Firm Purchase Imports	<u>1,769</u>	<u>2,213</u>
<b>Total Capability</b>	<b>41,552</b>	<b>41,013</b>

# 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%

Source: NYISO

# 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

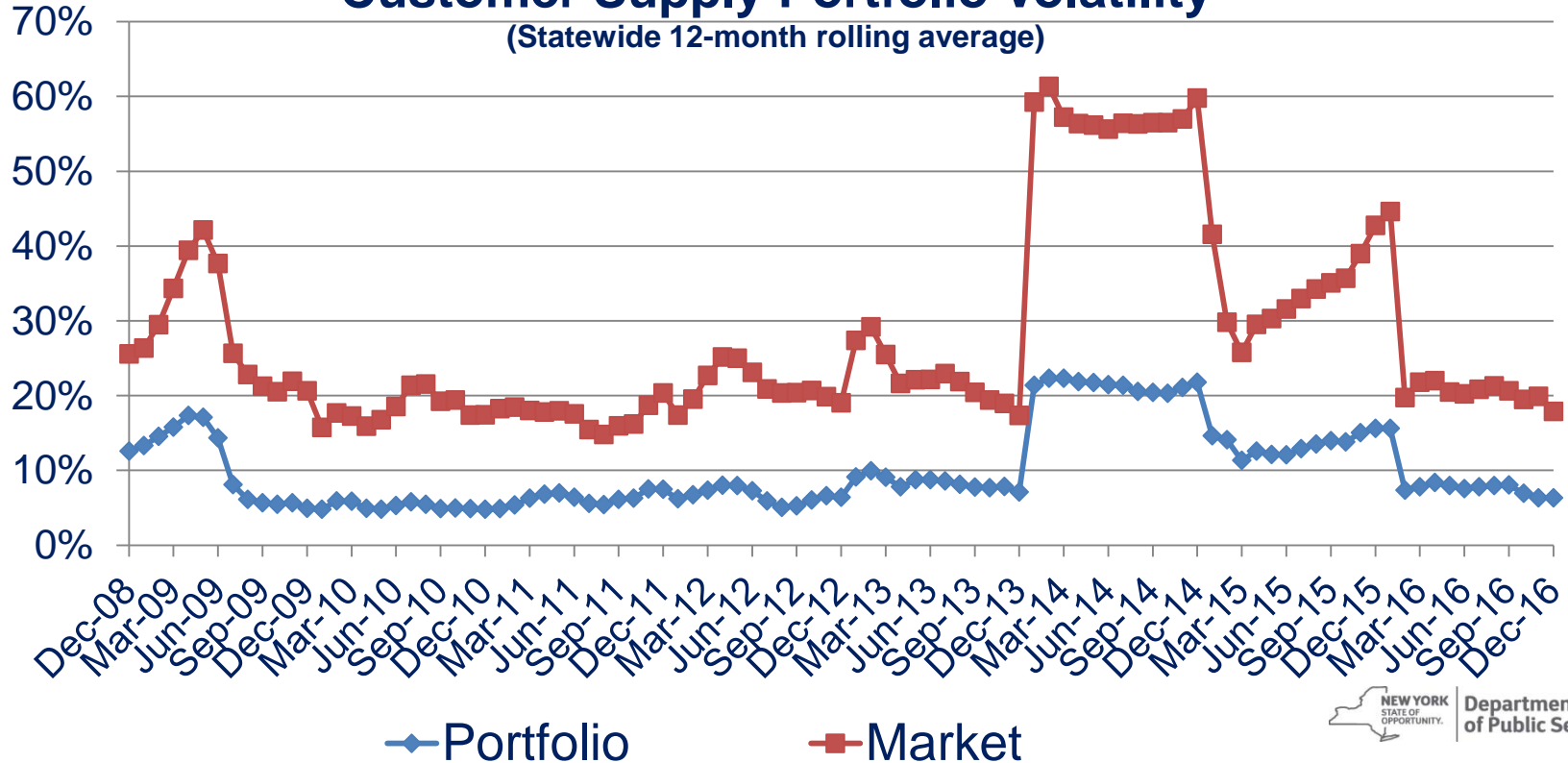


**2017 Summer Preparedness  
New York State  
Electric Portfolio, Volatility,  
and Supply Price Outlook**

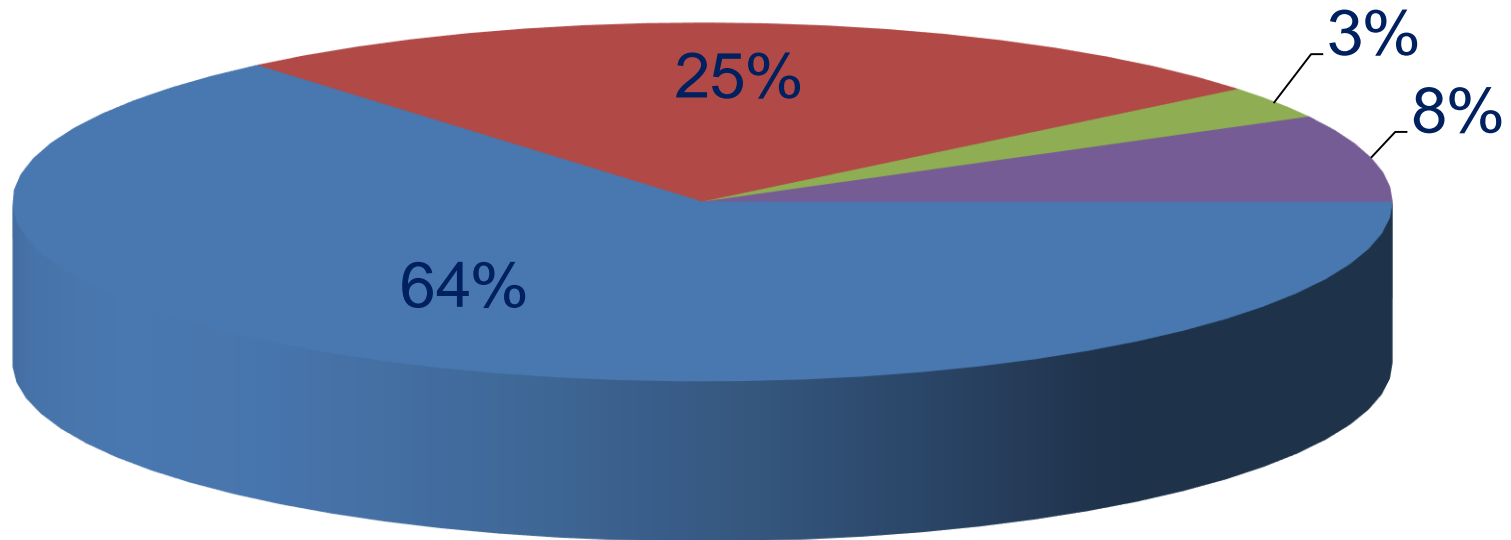
# NYISO Spot Market vs. Utility Full Service Residential Customer Supply Portfolio Volatility

(Statewide 12-month rolling average)

Coefficient of Variation

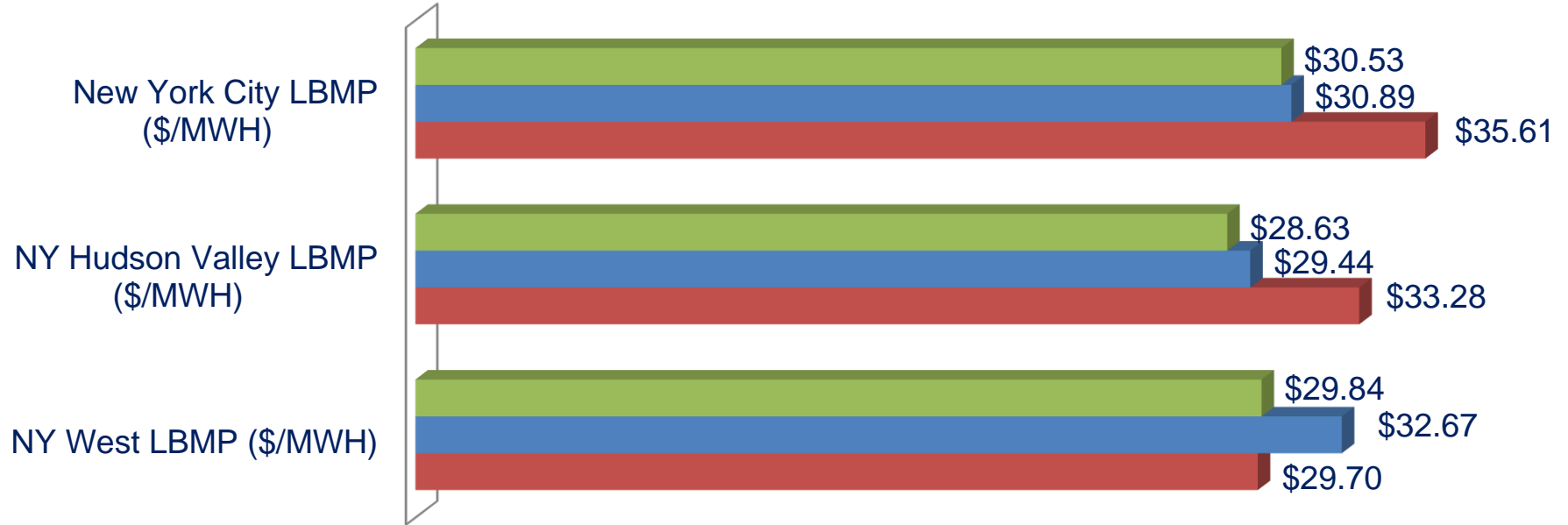


# New York State Electric Supply Portfolio Full Service Residential (Summer 2017)



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

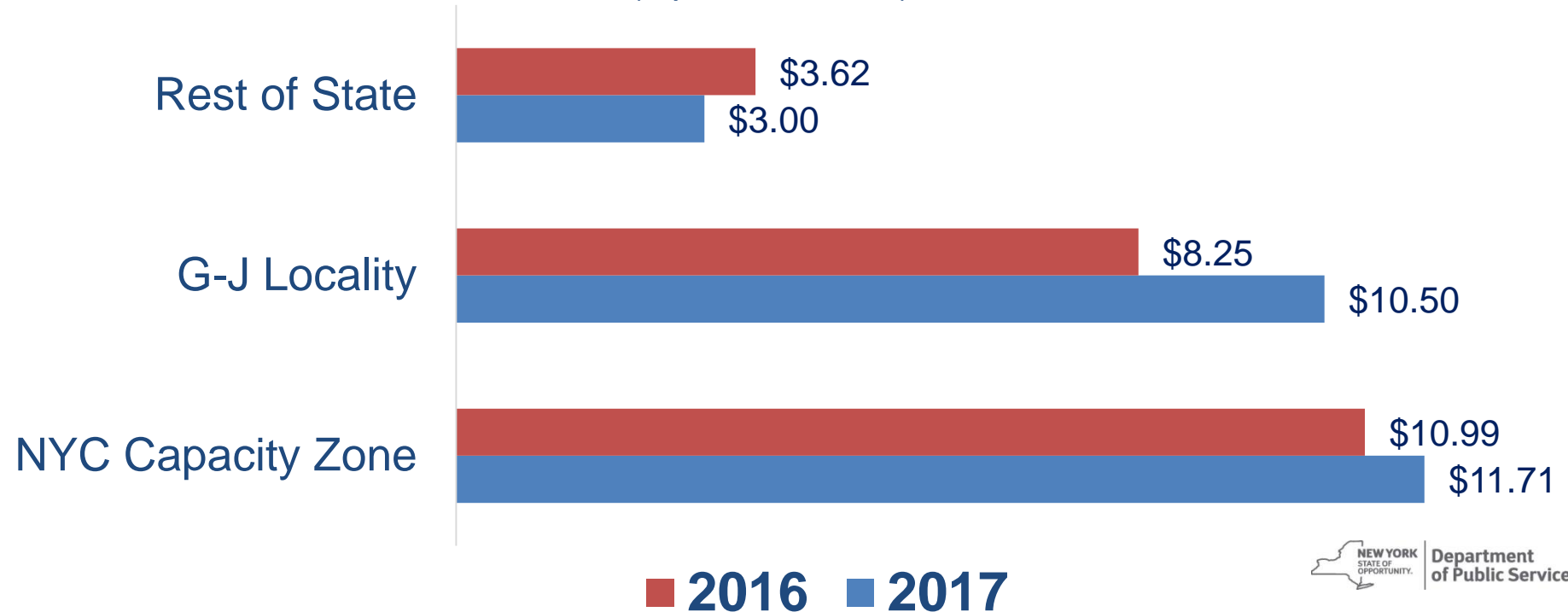
## Average Energy Price Comparison Summer Season



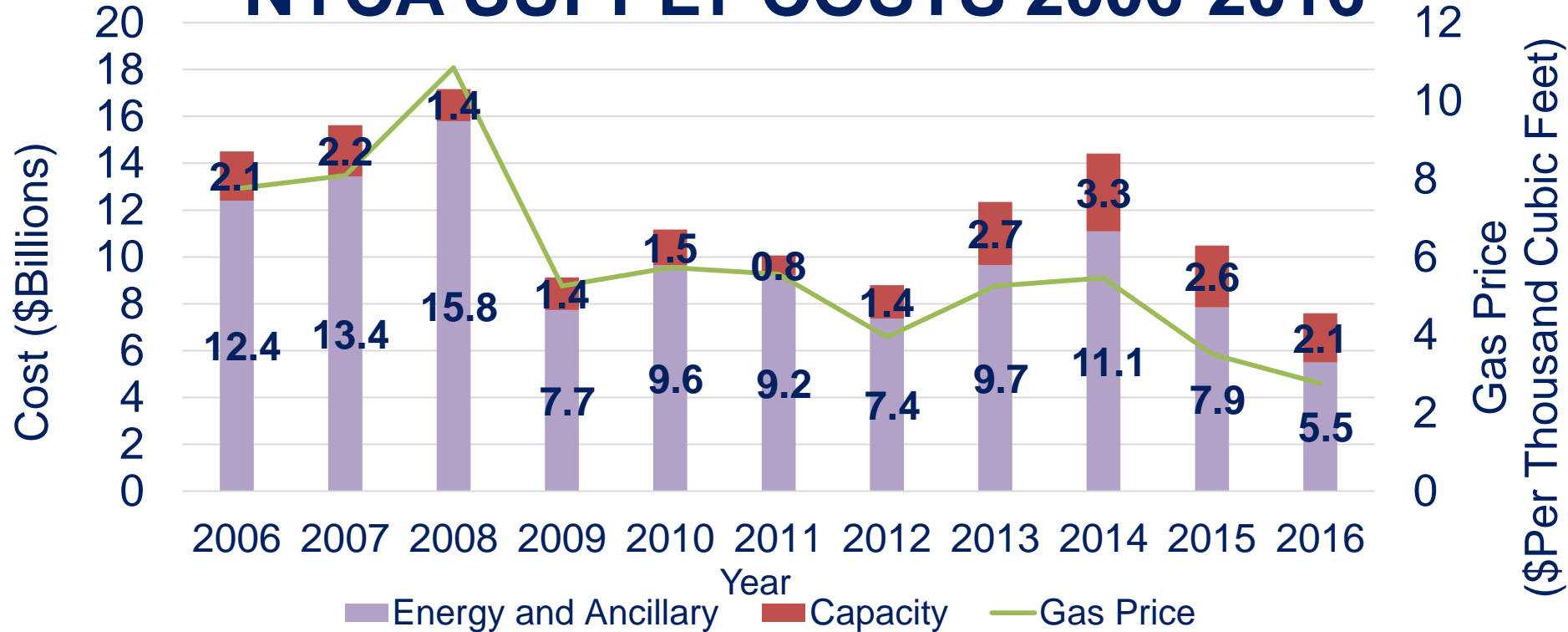
- NYMEX Futures June-September, 2016
- Average Day-Ahead Market June-September, 2016
- NYMEX Futures June-September, 2017

# 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