



Department
of Public Service

2018 Summer Preparedness

May 17, 2018

2018 Summer Preparedness New York State

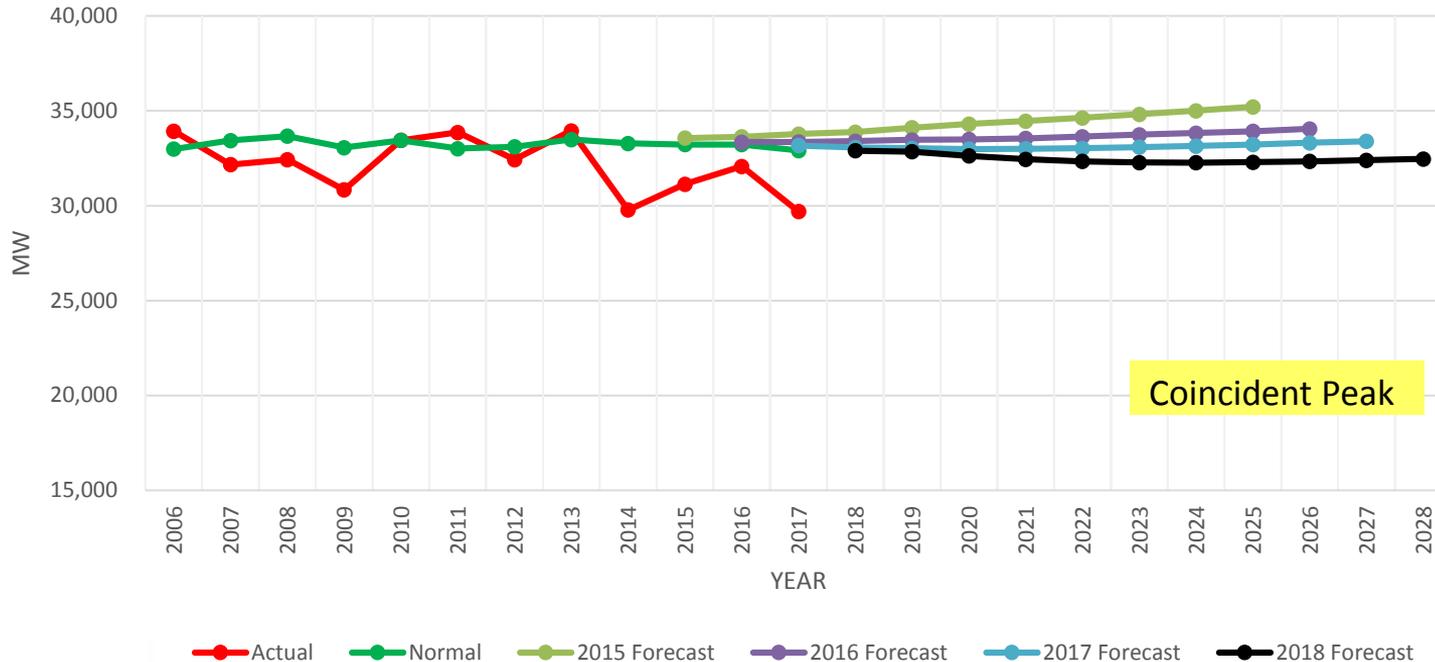
Electric System Preparedness

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

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

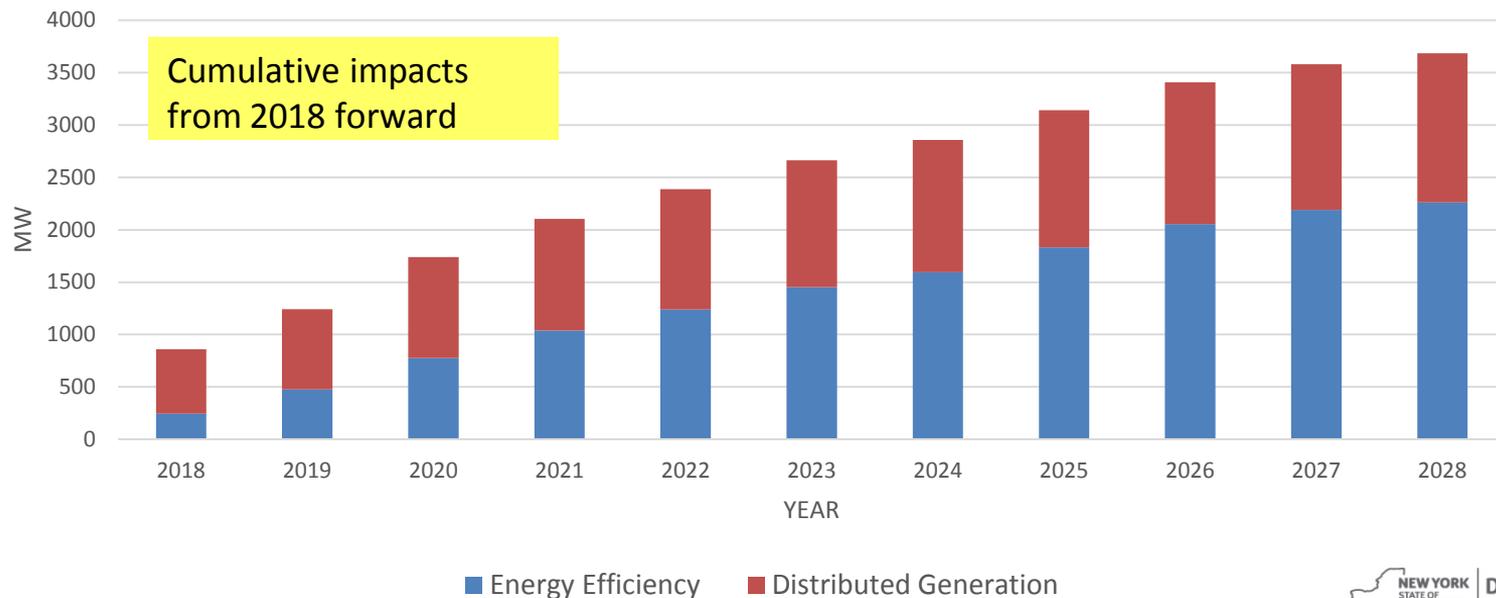
Actual, Normal, & Forecast - Summer Peak (MW)
NYCA Base Case - With Energy Program Impacts



Source: NYISO

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

Energy Program Impacts - Summer Peak (MW)
NYCA



Source: NYISO

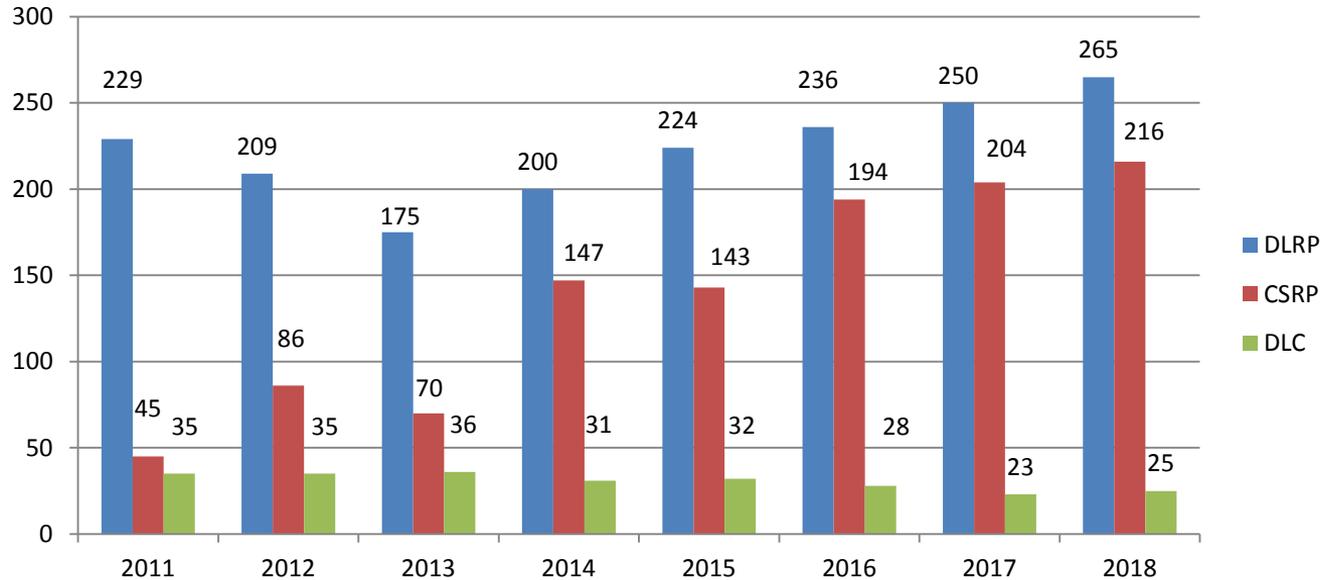
2018 Summer Capability

	2017	2018
Installed Generation Capacity	37,609	39,325
Demand Response – Special Case Resources (SCRs)	<u>1,191</u>	<u>1,219</u>
Total NY Control Area (NYCA) Internal Capability	38,800	40,544
Net Firm Purchase Imports	<u>2,213</u>	<u>1,625</u>
Total Capability	41,013	42,169

NYS Peak Demand and Installed Reserve Margin

	Forecast
Demand Forecast	32,904 MW
18.2% Required Installed Reserve Margin (IRM)	5,989 MW
Total Capability Requirement	38,893 MW
Total Capability This Summer	42,169 MW
Surplus (Capability Above Requirement)	3,276 MW
Capability Versus Demand Forecast (%)	128.2%

Con Edison: Load Relief Programs



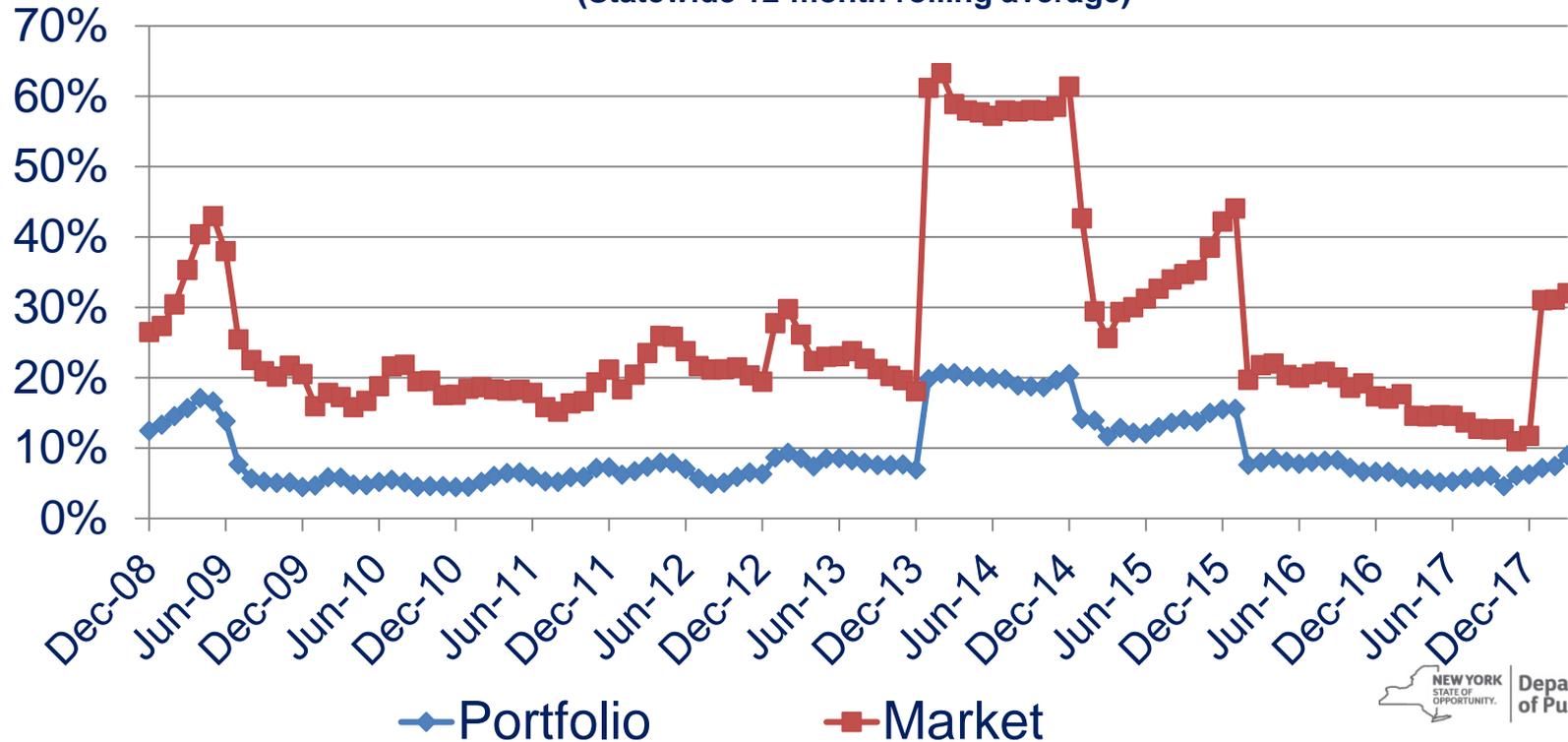
DLRP – Distribution Load Relief Program
CSRP – Commercial System Relief Program
DLC – Direct Load Control Program

**2018 Summer Preparedness
New York State
Electric Portfolio, Volatility,
and Supply Price Outlook**

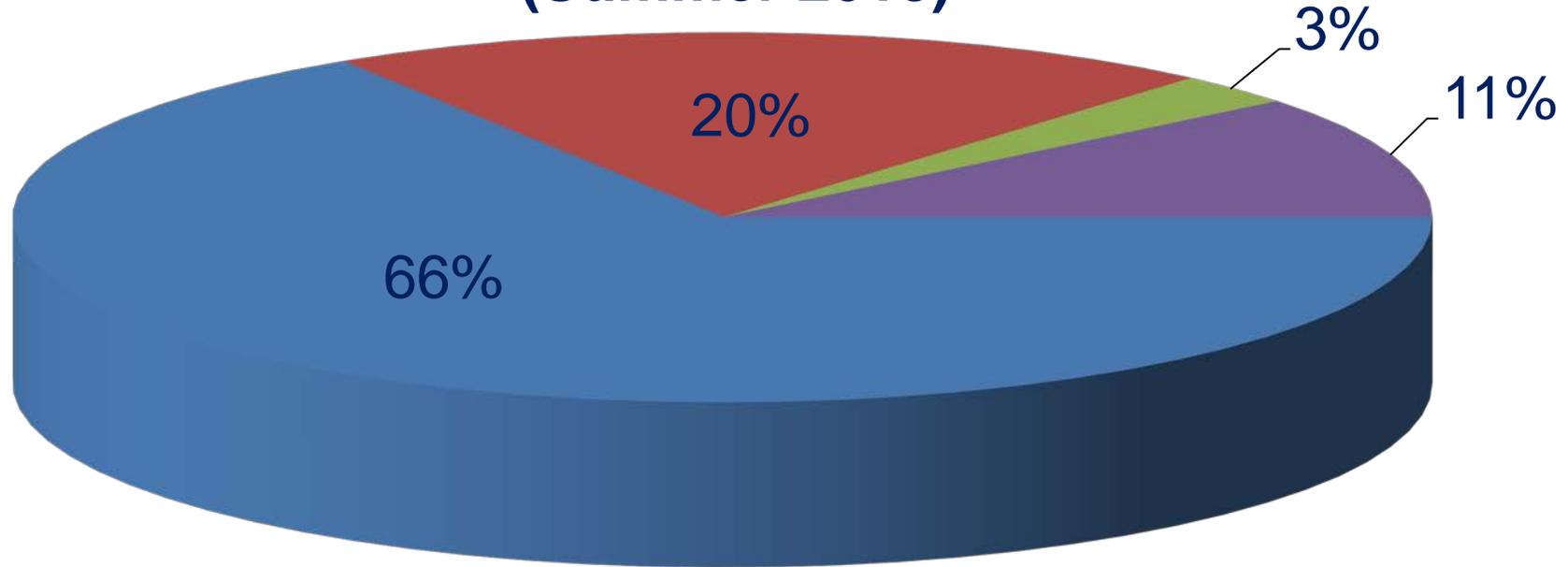
NYISO Spot Market vs. Utility Full Service Residential Customer Supply Portfolio Volatility

(Statewide 12-month rolling average)

Coefficient of Variation



New York State Electric Supply Portfolio Full Service Residential (Summer 2018)



■ Fixed Price

■ Unhedged Generation

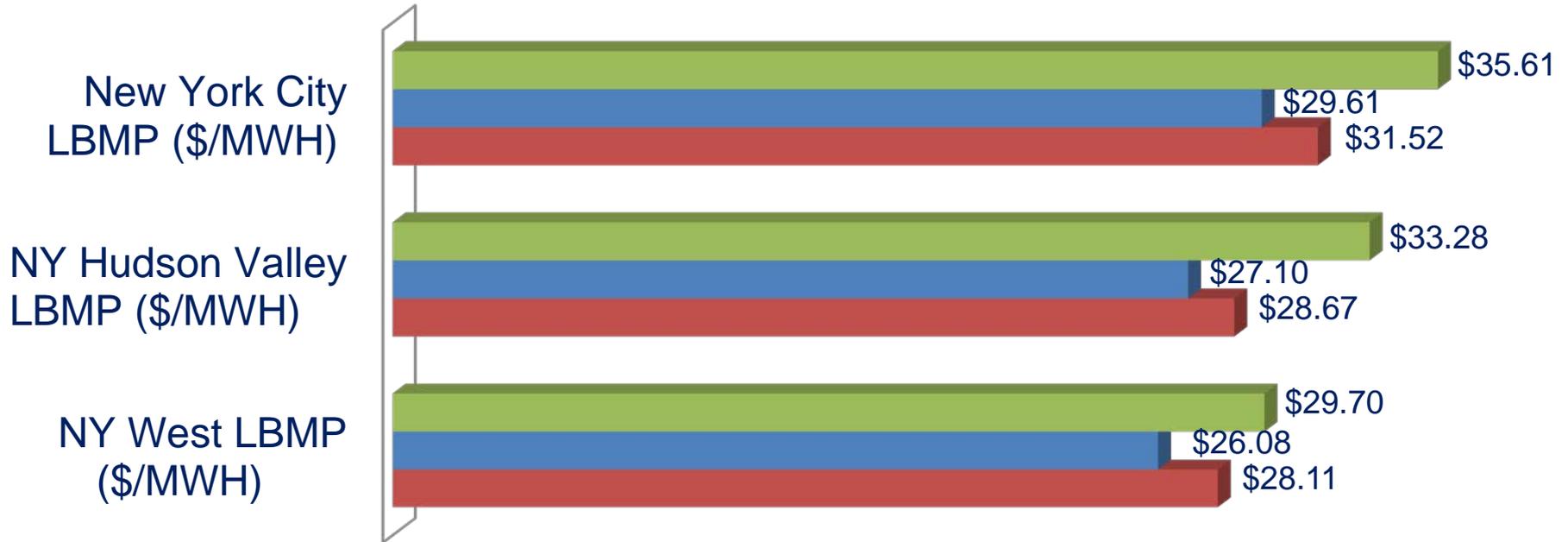
■ Market Price

■ Index Price



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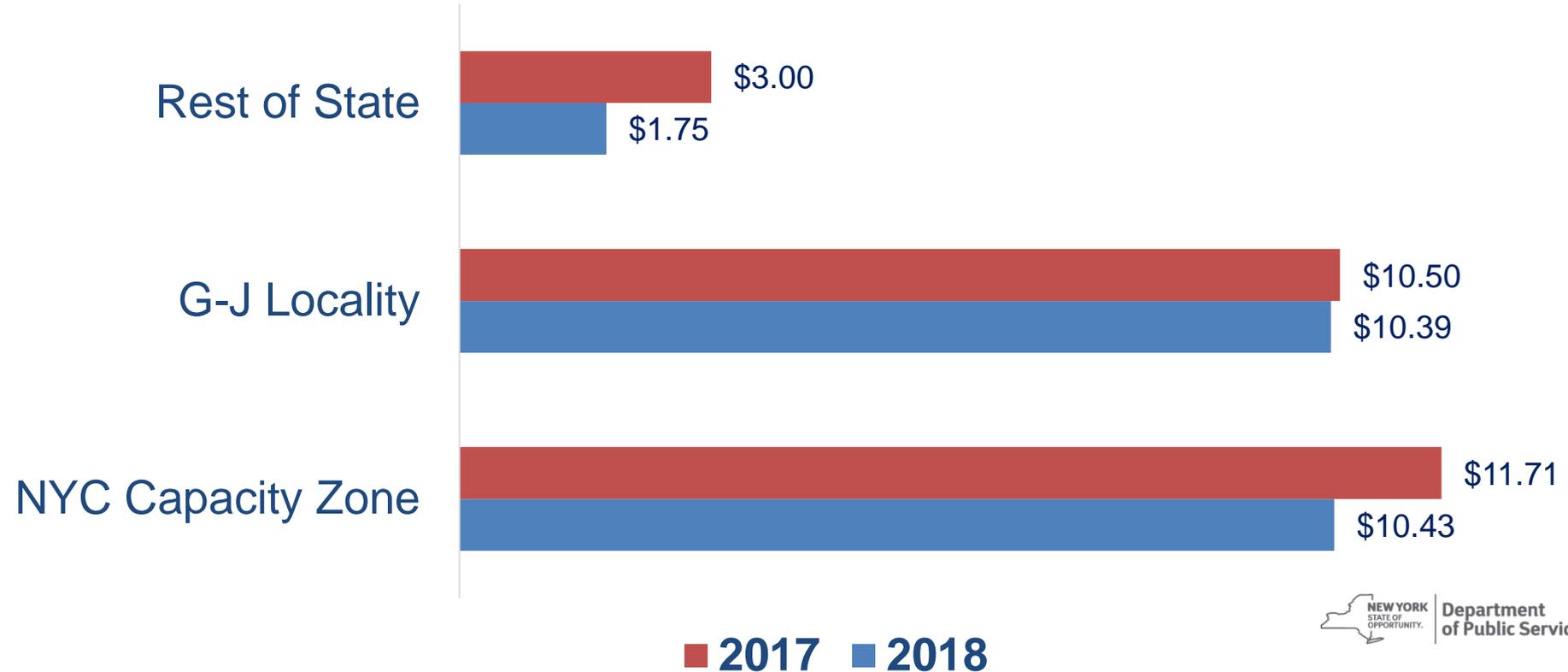
Average Energy Price Comparison Summer Season



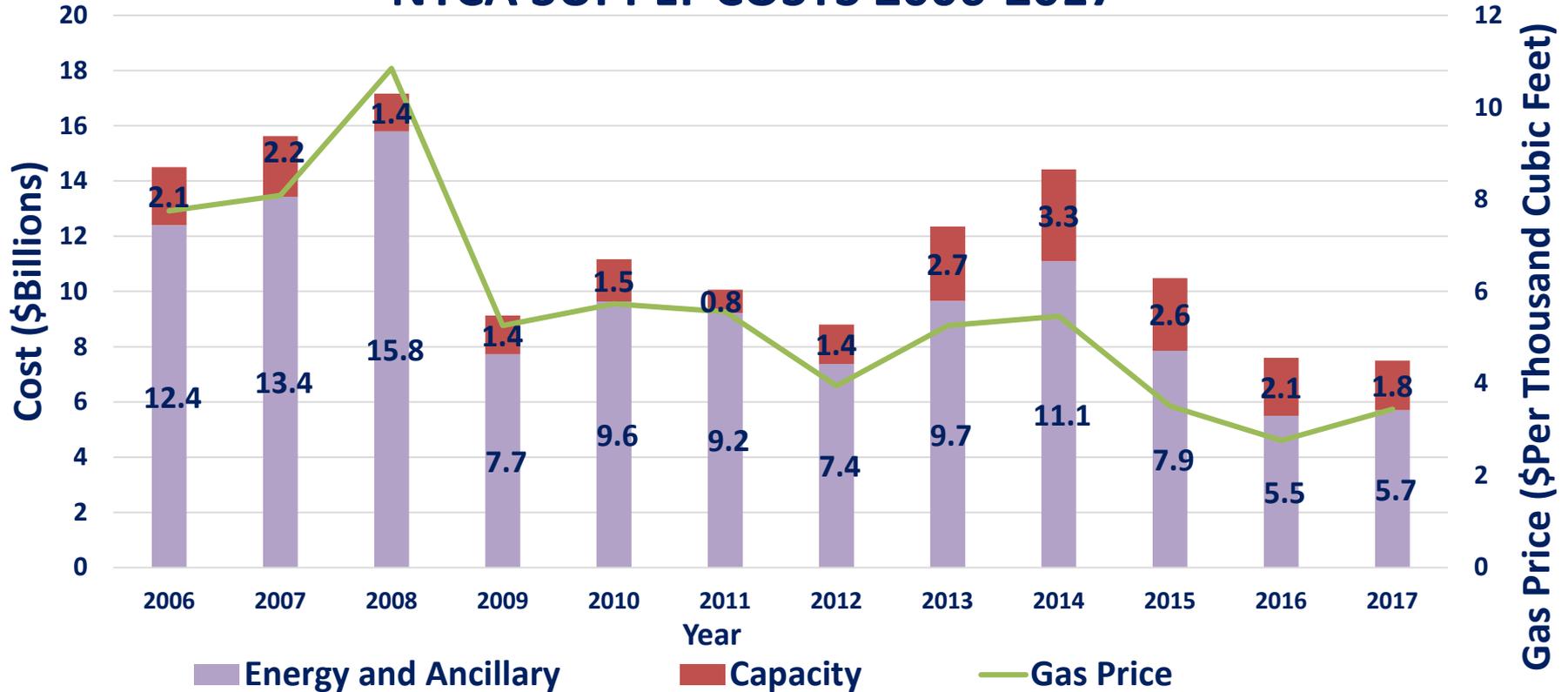
- NYMEX Futures June-September, 2017
- Average Day-Ahead Market June-September, 2017
- NYMEX Futures June-September, 2018

Summer Strip Auction Capacity Prices

(\$ per kW-month)



NYCA SUPPLY COSTS 2006-2017



*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 2018 NYISO Gold Book

*** All Supply costs are priced at market; note that bilateral contract prices may differ from market prices

****Gas Price from EIA - New York Electric Power Price