



Department  
of Public Service

# 2020 Summer Preparedness

May 14, 2020

# 2020 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

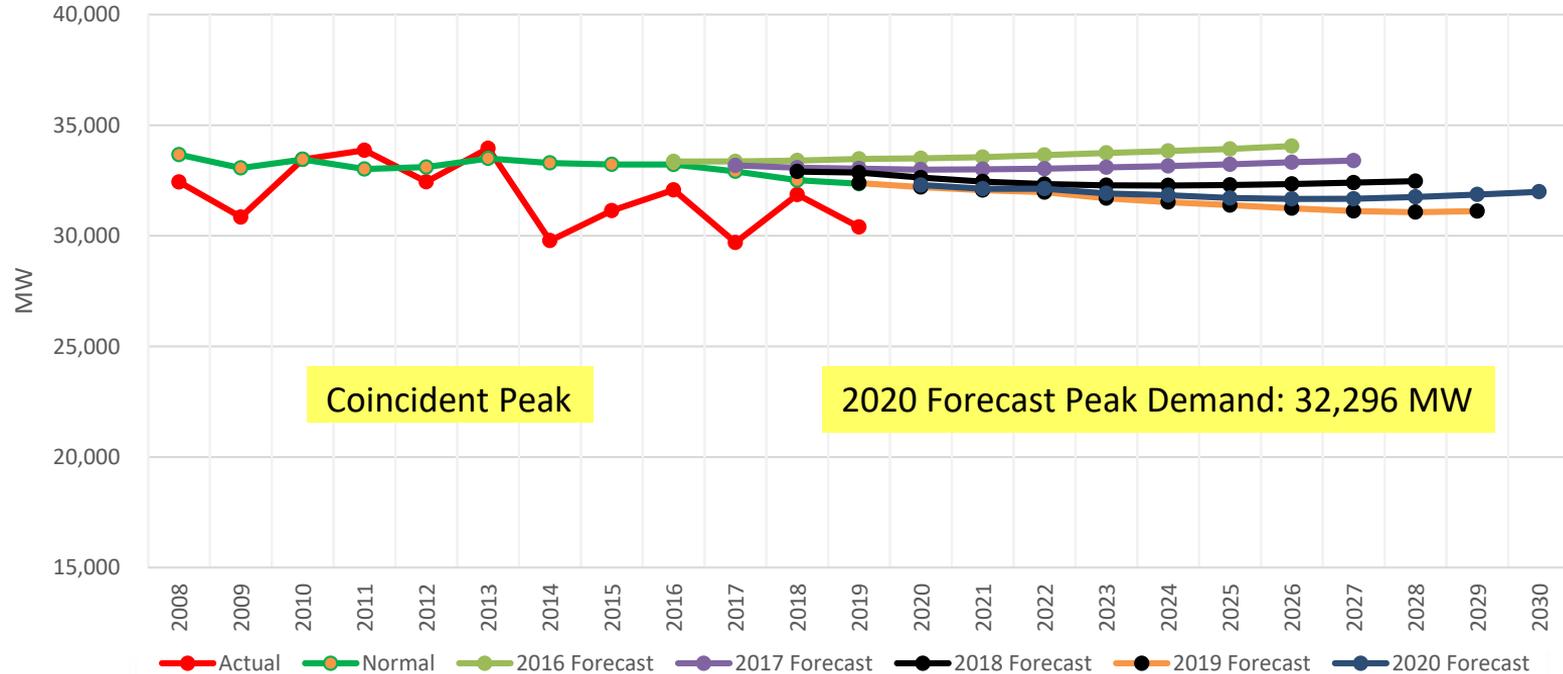
# Utility Preparedness In The COVID-19 Environment

- Under Executive Order 202, Public Utilities are designated as essential businesses.
- DPS Staff remain in close contact with Utilities to ensure extra vigilance and focus on system interruptions, employee response and employee protections when in the field.
- The utilities have taken extra steps to help ensure the reliability of the system throughout the COVID-19 pandemic:
  - measures to protect their essential employees
  - addressing supply chain challenges
  - establishing plans for safely operating infrastructure
  - developing best practices for the use of mutual assistance
  - identify increased load pockets
  - prepare for heat waves, summer storms and other eventualities while customers remain in their homes.

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

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

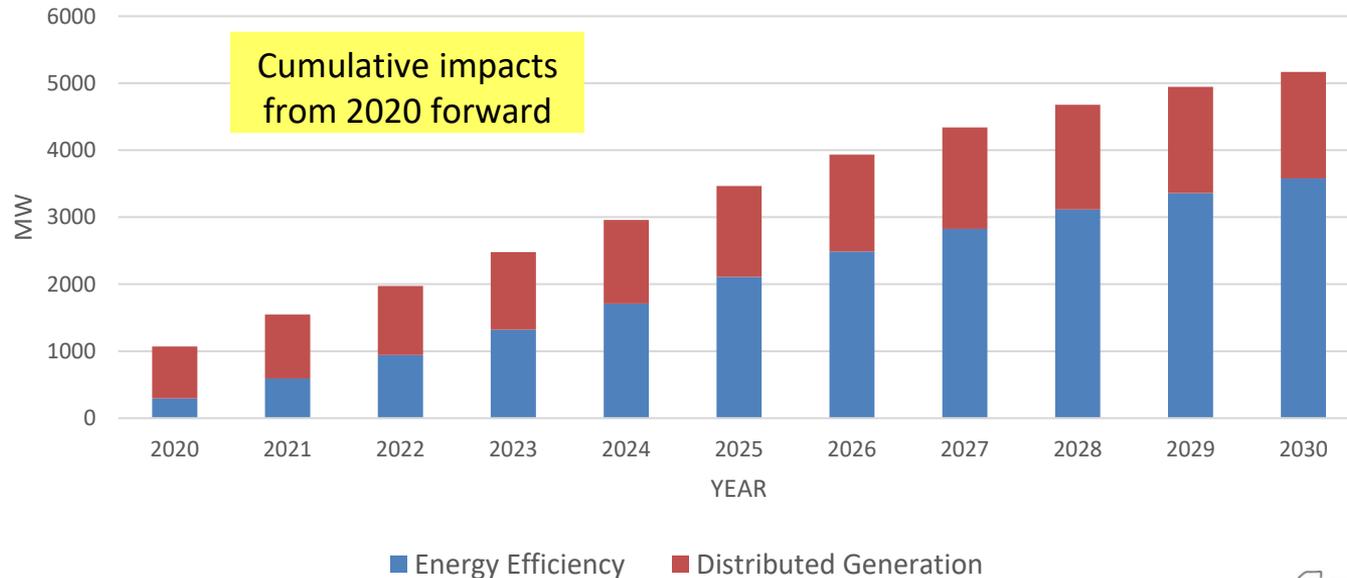
NYCA Base Case - With Energy Program Impacts



Source: NYISO

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

Forecast Energy Program Impacts - Summer Peak (MW)  
NYCA



Source: NYISO

# 2020 Summer Capability

	2019	2020
Installed Generation Capacity	39,295	38,475
Demand Response – Special Case Resources (SCRs)	<u>1,309</u>	<u>1,282</u>
Total NY Control Area (NYCA) Internal Capability	40,604	39,757
Net Firm Purchase Imports	<u>1,452</u>	<u>1,562</u>
<b>Total Capability</b>	<b>42,056</b>	<b>41,319</b>

# NYS Peak Demand and Installed Reserve Margin

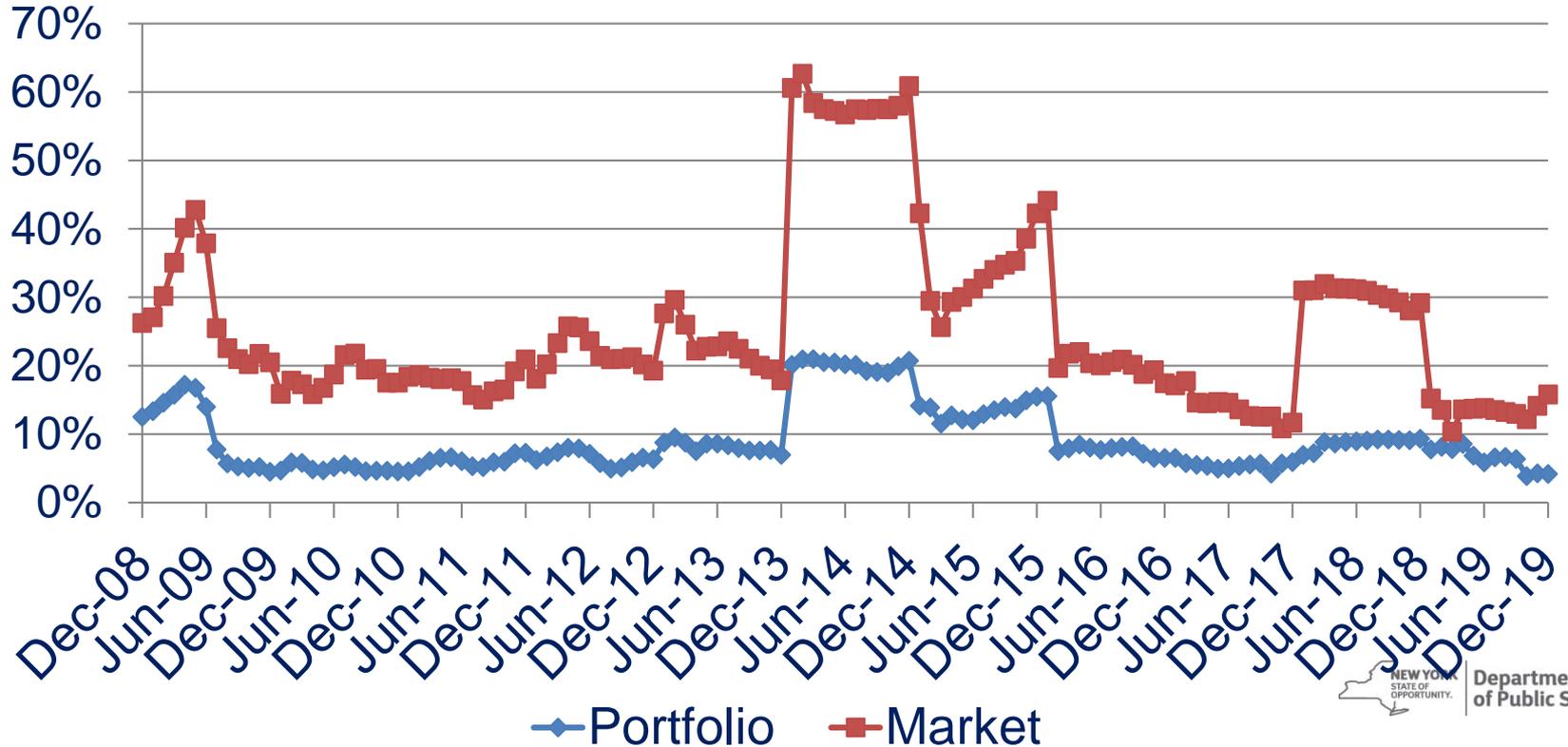
	Forecast
Demand Forecast	32,296 MW
18.9% Required Installed Reserve Margin (IRM)	6,104 MW
Total Capability Requirement	38,400 MW
Total Capability This Summer	41,319 MW
Surplus (Capability Above Requirement)	2,919 MW
Capability Versus Demand Forecast (%)	127.9%

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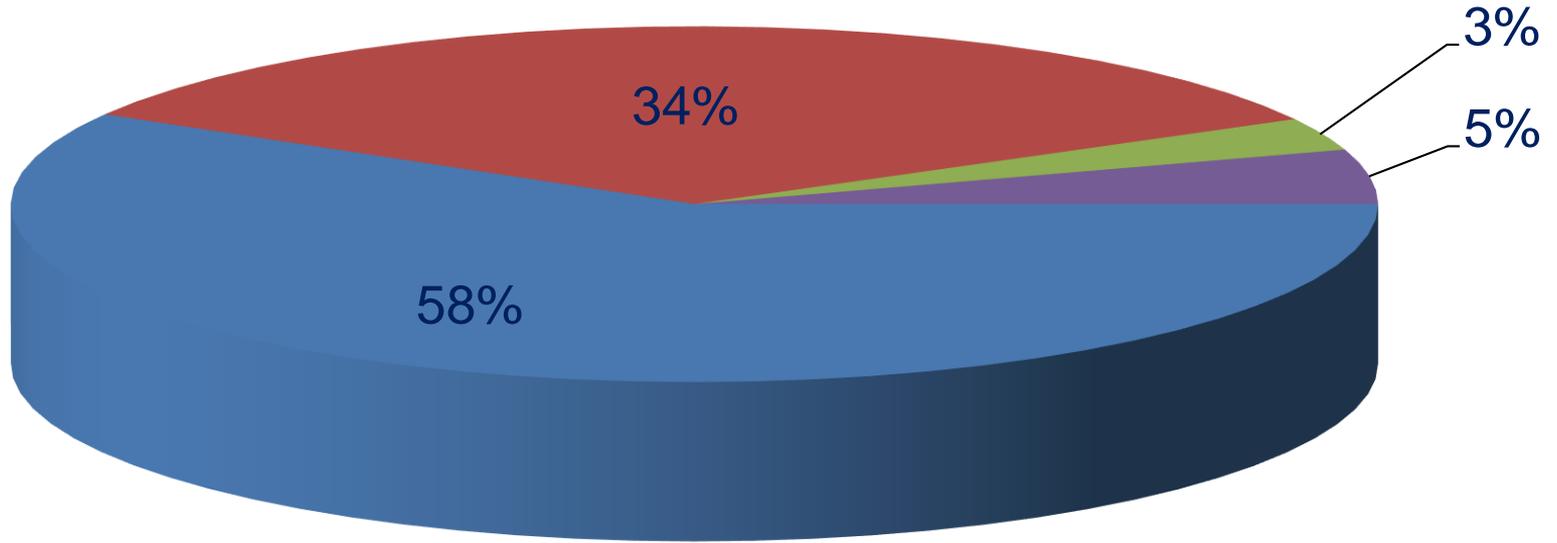
## Electric Portfolio, Volatility, and Supply Price Outlook

**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 2020)



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

## Average Energy Price Comparison Summer Season



- NYMEX Futures June-September, 2019
- Average Day-Ahead Market June-September, 2019
- NYMEX Futures June-September, 2020

# Summer Strip Auction Capacity Prices

(\$ per kW-month)

