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

2020 Forecast Peak Demand: 32,296 MW
Forecast Impact on Summer Peak Demand (MW) of Energy Efficiency and Distributed Generation

Forecast Energy Program Impacts - Summer Peak (MW)

NYCA

Cumulative impacts from 2020 forward

Source: NYISO
# 2020 Summer Capability

<table>
<thead>
<tr>
<th></th>
<th>2019</th>
<th>2020</th>
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</thead>
<tbody>
<tr>
<td>Installed Generation Capacity</td>
<td>39,295</td>
<td>38,475</td>
</tr>
<tr>
<td>Demand Response – SCRs</td>
<td>1,309</td>
<td>1,282</td>
</tr>
<tr>
<td>Total NY Control Area (NYCA)</td>
<td>40,604</td>
<td>39,757</td>
</tr>
<tr>
<td>Net Firm Purchase Imports</td>
<td>1,452</td>
<td>1,562</td>
</tr>
</tbody>
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| Total Capability              | 42,056  | 41,319  |

Source: NYISO
## NYS Peak Demand and Installed Reserve Margin

<table>
<thead>
<tr>
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<th>Forecast</th>
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<tbody>
<tr>
<td>Demand Forecast</td>
<td>32,296 MW</td>
</tr>
<tr>
<td>18.9% Required Installed Reserve Margin (IRM)</td>
<td>6,104 MW</td>
</tr>
<tr>
<td>Total Capability Requirement</td>
<td>38,400 MW</td>
</tr>
<tr>
<td>Total Capability This Summer</td>
<td>41,319 MW</td>
</tr>
<tr>
<td>Surplus (Capability Above Requirement)</td>
<td>2,919 MW</td>
</tr>
<tr>
<td>Capability Versus Demand Forecast (%)</td>
<td>127.9%</td>
</tr>
</tbody>
</table>

Source: NYISO
2020 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)
New York State Electric Supply Portfolio
Full Service Residential
(Summer 2020)

- Fixed Price: 58%
- Market Price: 34%
- Unhedged Generation: 3%
- Index Price: 5%
Average Energy Price Comparison
Summer Season

New York City LBMP ($/MWH)
- NYMEX Futures June-September, 2019: $34.27
- Average Day-Ahead Market June-September, 2019: $25.68
- NYMEX Futures June-September, 2020: $16.23

NY Hudson Valley LBMP ($/MWH)
- NYMEX Futures June-September, 2019: $31.79
- Average Day-Ahead Market June-September, 2019: $23.20
- NYMEX Futures June-September, 2020: $20.52

NY West LBMP ($/MWH)
- NYMEX Futures June-September, 2019: $32.78
- Average Day-Ahead Market June-September, 2019: $26.37
- NYMEX Futures June-September, 2020: $16.23

Legend:
- 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)

- **Rest of State**
  - 2019: $1.30
  - 2020: $2.71

- **G-J Locality**
  - 2019: $3.07
  - 2020: $4.63

- **NYC Capacity Zone**
  - 2019: $13.10
  - 2020: $18.36