2021 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

2021 Forecast Peak Demand: 32,327 MW

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

Forecast Energy Program Impacts - Summer Peak (MW) NYCA

Cumulative impacts from 2021 forward

Source: NYISO
## 2021 Summer Capability

<table>
<thead>
<tr>
<th></th>
<th>2020</th>
<th>2021</th>
</tr>
</thead>
<tbody>
<tr>
<td>Installed Generation Capacity</td>
<td>38,475</td>
<td>37,785</td>
</tr>
<tr>
<td>Demand Response – SCR</td>
<td>1,282</td>
<td>1,195</td>
</tr>
<tr>
<td>Total NY Control Area (NYCA)</td>
<td>39,757</td>
<td>38,980</td>
</tr>
<tr>
<td>Net Firm Purchase Imports</td>
<td>1,562</td>
<td>2,087</td>
</tr>
<tr>
<td><strong>Total Capability</strong></td>
<td>41,319</td>
<td>41,066</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Forecast</th>
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</thead>
<tbody>
<tr>
<td>Demand Forecast</td>
<td>32,327 MW</td>
</tr>
<tr>
<td>20.7% Required Installed Reserve Margin (IRM)</td>
<td>6,692 MW</td>
</tr>
<tr>
<td>Total Capability Requirement</td>
<td>39,019 MW</td>
</tr>
<tr>
<td>Total Capability This Summer</td>
<td>41,066 MW</td>
</tr>
<tr>
<td>Surplus (Capability Above Requirement)</td>
<td>2,047 MW</td>
</tr>
<tr>
<td>Capability Versus Demand Forecast (%)</td>
<td>127.0%</td>
</tr>
</tbody>
</table>

Source: NYISO
2021 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 2021)

- Fixed Price: 58%
- Market Price: 34%
- Unhedged Generation: 2%
- Index Price: 6%
Average Energy Price Comparison
Summer Season

New York City LBMP ($/MWH)
- Futures June-September, 2020: $22.96
- Futures June-September, 2021: $30.65

NY Hudson Valley LBMP ($/MWH)
- Futures June-September, 2020: $20.52
- Average Day-Ahead Market June-September, 2020: $20.36
- Futures June-September, 2021: $28.08

NY West LBMP ($/MWH)
- Futures June-September, 2020: $16.23
- Average Day-Ahead Market June-September, 2020: $22.24
- Futures June-September, 2021: $28.01

Legend:
- Futures June-September, 2020
- Average Day-Ahead Market June-September, 2020
- Futures June-September, 2021
Summer Strip Auction Capacity Prices

($) per kW-month)

- **Rest of State**
  - 2021: $2.71
  - 2021: $4.09

- **G-J Locality**
  - 2021: $3.07
  - 2021: $4.56

- **NYC Capacity Zone**
  - 2020: $5.54
  - 2021: $18.36

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*New York State Department of Public Service*
Statewide Weighted Average Full Service Residential Supply Price - Summer Months

(Cents per kWh)