The NYISO IS **Ready For Summer Electric Grid Preparedness 2019**

New York Independent System Operator

Media Briefing June 5, 2019



Meet the Presenter



Wesley Yeomans Vice President, Operations

Wes Yeomans has over 30 years of electric transmission experience. Wes leads the NYISO Operations Department with responsibility for the reliable operation of the New York transmission system. The Operations Department schedules least cost energy supplies on a day-ahead and real-time basis ensuring that sufficient resources will be available to meet New York's electricity needs.

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Last Summer 2018 Hot Weather Operations

- Actual ambient temperatures were above the 20-year mean in May, July, and August; and near average in June
 - 19 days over 90°F in Albany
- Total load (GWh) was <u>above</u> 50/50 forecast projections
- Peak load was <u>below</u> the 50/50 projection for the 5th consecutive summer
 - Summer 2018 50/50 forecast was 32,904 MW
 - Summer 2018 actual peak load was 31,861 MW (August 29)
- Six days with peak loads over 31,000 MW
 - Summer 2017 actual peak load was 29,677 MW





Summer 2019 Preparedness

- The NYISO has performed on-site visits of key generating stations to discuss maintenance, testing, and adequacy of fuel supplies for hot weather operations
- Existing Minimum Oil Burn procedures defined by the New York State Reliability Council (NYSRC) establish fuel switching requirements at certain high load thresholds in New York City and Long Island to ensure electric reliability for gas pipeline contingencies
- Coordination of New York Electric Utility preventative transmission maintenance
- Completion of operator training including non-emergency & emergency drills





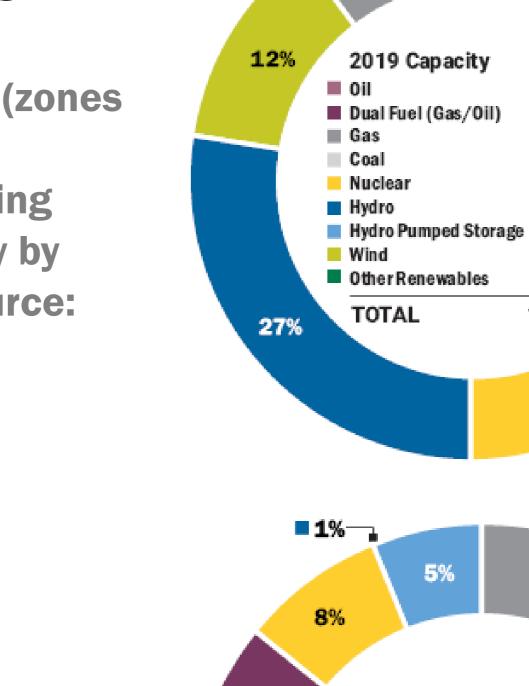


Fuel Mix – Generating Capacity

New York Statewide ■ <1% -6% Generating 4% Capacity 3% 2019 Capacity MW by Fuel 📕 Oil 2,407 11% Source: Dual Fuel (Gas/Oil) 19,112 3,777 Gas **2019** Power 837 Coal 5,400 Nuclear Trends Hydro 4,253 Hydro Pumped Storage 1,411 Wind 1,739 Other Renewables 358 14% TOTAL 39,295 2% 10%

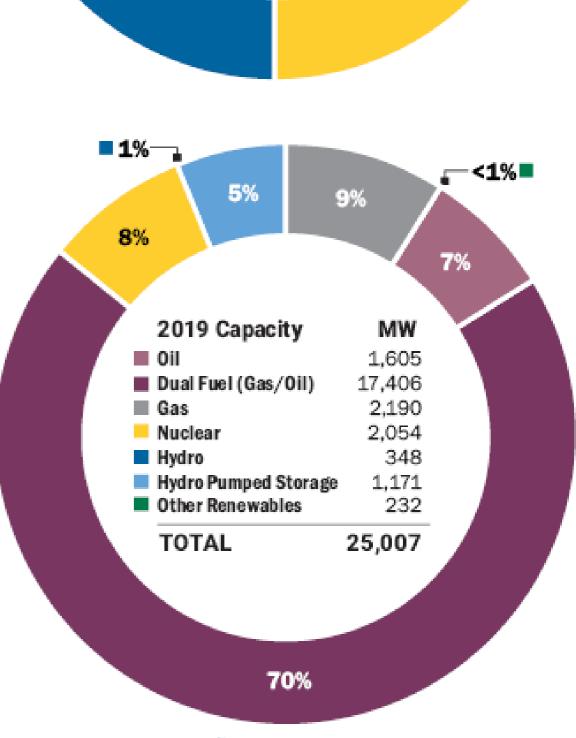
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Upstate (zones A-E) Generating **Capacity by Fuel Source:** 2019



2%-

Downstate (zones F-K) Generating **Capacity by Fuel Source:** 2019



49%



<1% 🔳

12%

6%

MW

802

1,706

1,587

837

3,346

3,905

1,739 127

14,288

240

23%

6%

11%



2019 Summer Capacity Assessment

For projected baseline <u>peak</u> conditions and expected performance of the transmission system, generation, and pipeline infrastructure the NYISO expects to meet reliability criteria throughout Summer 2019 including heat wave conditions

- NYISO Capacity Margins: Summer Heat Wave (50-50) Conditions
 - +42,056 MW **Capacity Supplies**
 - -4,827 MW **Projected Generator Derates**
 - -32,382 MW Peak Load Forecast (50-50)
 - -2,620 MW **Operating Reserve Requirement**
 - +2,227 MW **Projected Capacity Margin**
- NYISO Capacity Margins: Summer Extreme Heat Wave (90-10) Conditions
 - -34,186 MW

- Peak Load Forecast (90-10)
- +423 MW **Projected capacity Margin**







The Mission of the New York Independent System Operator, in collaboration with its stakeholders, is to serve the public interest and provide benefits to consumers by:

- Maintaining and enhancing regional reliability
- **Operating open, fair and competitive** wholesale electricity markets
- **Planning the power system for the future**
- **Providing factual information to policymakers**, stakeholders and investors in the power system

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