Long Island’s Peak Load Forecast Update and NOx Compliance Plan

March 27, 2020
Long Island’s Peak Load Forecast
LONG ISLAND’S PEAK ENERGY NEEDS CONTINUE TO DECLINE

Energy Efficiency

• Lighting in the residential sector
• Lighting and HVAC controls in commercial sector

Renewables

• Rooftop Solar PV
• FIT Solar PV
• Fuel Cells in Commercial Sector

Electrification

• Heat Pumps
• Electric Vehicles
COMPARISONS TO PREVIOUS FORECASTS

• New peak load forecast is 2,546MW below the 2013 forecast, equivalent to 4 large power plants

• New peak load forecast for 2030 is approximately 340MW lower than last year’s forecast
NOx Compliance Plan
NOx OVERVIEW

• In 2019, New York’s Department of Environmental Conservation (DEC) proposed tougher requirements on Nitrogen Oxide (NOx) air emissions on older peaking plants to protect the health of New York State residents.

• LIPA, together with PSEG Long Island and National Grid, evaluated the cost of compliance and identified units worthy of investment in order to maintain system reliability while New York transitions to a low carbon future.

• As a result, National Grid plans to retire units at West Babylon and Glenwood to meet DEC NOx compliance.

• PSEG Long Island is conducting additional studies of the needs of the electric grid as New York transitions to a low carbon future. Additional changes may be made to the NOx compliance plan between now and 2023.
Facilities that are or will be compliant with DEC’s May 1, 2023 deadline:
• Port Jefferson Energy Center
• Northport Power Station
• E.F. Barrett Station*
• Glenwood Energy Center
• Glenwood GT 2 and 3*
• Holtsville GT Facility
• Wading River Facility including Shoreham GT 1 and 2
• East Hampton Generating Facility

Facilities selected to retire in 2020-2021:
• West Babylon GT 1
• Glenwood Energy Center GT 1

* Investment assumes approval of Nassau County power plant tax settlement agreement
NOx COMPLIANCE PLAN RETIREMENT DETAILS

Glenwood 1

- Glenwood Power Plant was demolished from 2012 – 2015, leaving three peaking plants (Glenwood 1, 2, & 3) to remain in operation
- The Glenwood peaking units were utilized at approximately 1% of their capacity in 2019
- Glenwood 1 (16MW) is scheduled to retire in 2021

West Babylon GT1

- West Babylon (52MW)
- Scheduled to retire in 2020