



Summer Preparation 2025

Michael Sullivan

Vice President, Electric T&D

Curt Dahl

Vice President, Power Systems Management



Electric T&D Capital Projects

➤ Major projects completed or expected to complete for summer 2025

Transmission System Installations / Upgrades

- Belmont to Whiteside New 69 kV underground circuit

Substation Installations / Upgrades

- Holbrook - Substation expansion to accommodate one 138 kV gen tie for Sunrise Offshore Wind Project
- Belmont - Install one 69/13kV Transformer Bank
- Hauppauge and Elwood - 138 kV Bus Upgrades
- Hither Hills - 23kV to 33kV Conversion
- Elwood and Stewart Avenue - Switchgear Replacements

Distribution System Installations / Upgrades

- Elwood - New Feeder and Reinforcements
- Locust Grove and Woodmere - Feeder Reinforcement and Extension
- South Shore Mall - Network Protector Transformer Replacement



Electric T&D Maintenance

➤ Scheduled work scope to be completed prior to summer period:

- Inspect 1,603 capacitor banks and make repairs by June 30
- Trim 95% of 2025 transmission circuit mileage plan
- Trim 50% of 2025 distribution circuit mileage plan
- Perform thermographic analysis of critical substation facilities
- Patrol and repair of critical items on subset of 28 circuits over 101 miles
- Patrol and repair of substandard conditions on subset of 143 poor performing branch taps over 198 miles
- Complete pre-summer substation equipment maintenance as required



Electric T&D – Other Actions

↗ Generation

- West Babylon GT #1, Glenwood GT # 1 and Shoreham GT # 2 are available to support under emergency conditions for summer 2025.
- Northport APG and Port Jeff APG are available for emergency blackstart support.
- Barrett Steam Unit # 1: On November 1, 2024 and on March 28, 2025; unit 1 experienced vibration trip due to the damage to turbine buckets. The outage has been extended to August 15, 2025 for further repairs. Upon return, the unit is expected to be derated to 145 MW until February 15, 2026.
- Port Jefferson Unit # 4: The unit has an active maintenance outage since October 7, 2024. During February 2025, close to the scheduled end of the outage, the unit performed several vibrations tests but was unsuccessful in achieving stability. The outage has been extended until August 1, 2025 for further repairs. The unit is undergoing a partial generator rewind and the return date is pending additional testing.
- Port Jefferson Unit # 3: The unit is in a scheduled maintenance outage since March 1, 2025 for summer prep and stack repair work. The outage is scheduled to end on May 23, 2025.

Electric T&D – Other Actions

➤ No major transmission outages expected for the Summer Operating Period

- Bayport to Fire Island Pines circuit 23-748 had an underwater submarine cable failure. The cable was repaired and the circuit is back in service
- Fire Island Pines to Ocean Beach (PMH 84022) circuit 23-754 had a cable failure. The cable was repaired and the circuit is back in service
- Northern Shore line of Fire Island Pines substation was reinforced with trap bags and sand to re-bury and protect Fire Island Pines to Bayport 23 kV Transmission cable

➤ All interties are expected to be in service for the Summer Operating Period

- Y-50 (Dunwoodie, Con Edison – Shore Rd, LIPA) : Y-50 cable experienced two outages, both were within Con Ed's territory. The first duration was June 17, 2024 to October 26, 2024 and the second one was January 22, 2025 to March 29, 2025. The cable also experienced three oil leaks since May 1, 2024 and they all were fixed. The cable is currently in service.
- 903 (Jamaica, Con Edison – Lake Success, LIPA) : 903 cable had experienced one oil leak since May 1, 2024. The leak occurred within Con Ed's territory and was addressed. 903 is back in service as of September 22, 2024
- The total transfer capability of Northport to Norwalk Harbor 138 kV cable is limited to 125 MW due to the updated NYS Transmission system configuration for this summer



2025 Major Restoration Exercises

Date	Exercise
April 7	Restoration Contingency Functional Exercise – Loss of Critical Systems
April 3 & 10, May 8 & 15	Division Operations Functional Exercises
May 1	Alternate Control Center Drill
May 13	Annual Hurricane Tabletop Exercise
May 14	Loss of EMS (SCADA) Exercise
May 21	Load Shed/COMMIT Tabletop Exercise
June 13	Logistics & Foreign Crew Management Functional Exercise
July (TBD)	Communications Tabletop Exercise



Power Supply – Steam Units (1,814 MW)

Northport Units No. 1-4

- Routine Maintenance – all units
- Unit 3: Digital Control System Upgrades

E.F. Barrett Units No. 1-2

- Routine Maintenance – all units
- Unit 1 in Turbine Vibration Outage
 - Currently Unit 1 has an outage scheduled through August 15, 2025

Port Jefferson Units 3-4

- Routine Maintenance – all units
- Unit 3: Stack Refurbishment Repairs
- Unit 4: Generator Field Rewind, Generator excitation upgrade
 - Currently Unit 4 has an outage scheduled through August 1, 2025



Port Jefferson Power Station

Power Supply – Other Units

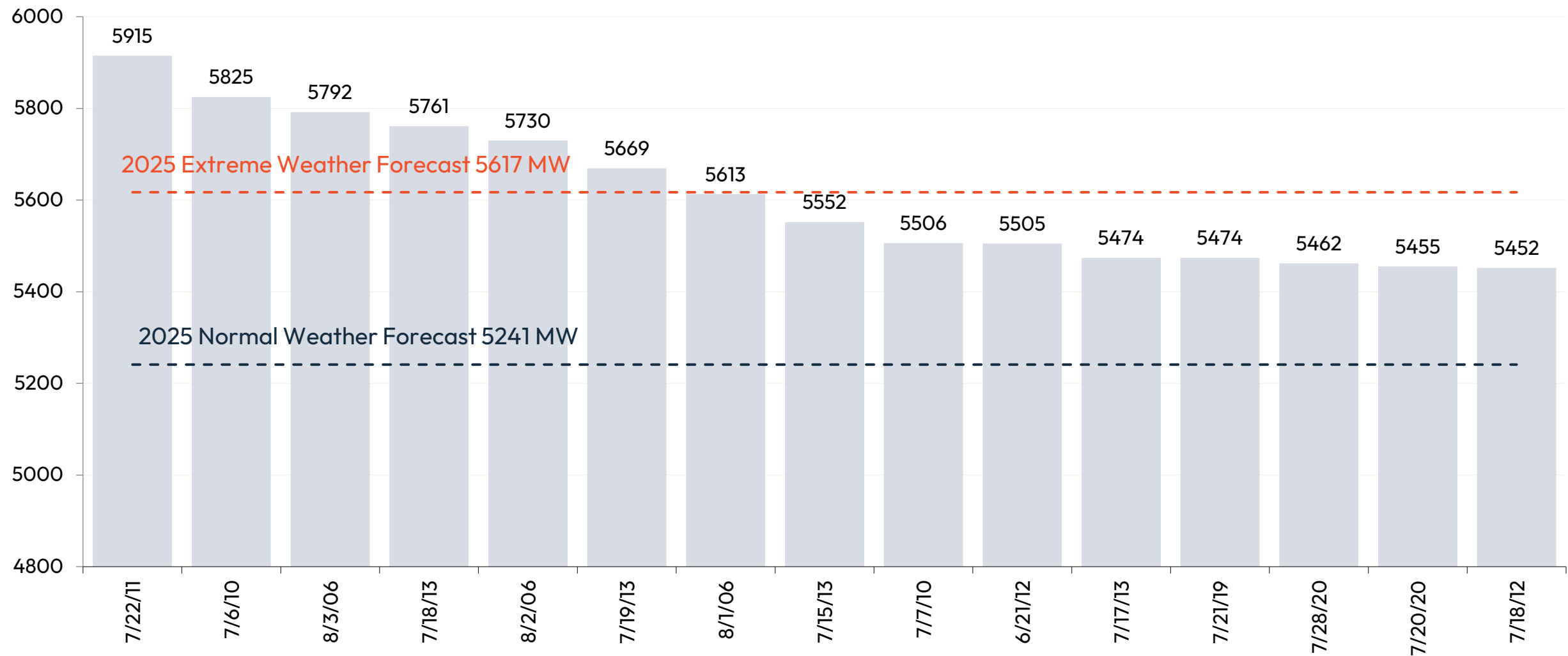
↗ **Combustion Turbines (1,775 MW)**

- Annual routine maintenance for the fleet will be completed and all units will be available for system needs by June 5th.
- Glenwood GT4 Combustor swap, Glenwood 4/5 2nd Stage High Pressure Turbine Nozzle replacement
- Holtsville 8 Exhaust Stack Replacement
- Port Jeff GT 3 Low Pressure Turbine Blade / Nozzle Repairs
- Performed Combustion inspection on Wading River 3
- Diesel Starter Engine Replacement on Southampton
- Generator Overhaul on East Hampton 3

↗ **Balance of Long Island Fleet (778 MW)**

- All units will have undergone maintenance, inspections, and repairs as required
- Bethpage CC5 found damage to combustor and swapped engine with Calpine spare engine
- All other resources are expected to be available for summer 2025 including Neptune and Cross Sound Cable (Far Rock GTs are derated to around 74 MW)

15 Highest Long Island Control Area Loads



Long Island Control Area 2025

↗ System Demand & Capability (MW)

	Base	Extreme Weather
Generation	4,367	4,349
Inter-ties	2,074	2,074
Total Supply	6,441	6,423
Peak Load	5,241	5,617
Load Reduction + Load Modifiers ¹	-182	-182
Net Load	5,059	5,435
Margin	1,382	988

↗ System Margins & Contingencies

- Sufficient margins exist for all major contingencies under 2025 forecast
- Operating procedures will be implemented, as required, to maintain system reliability during both normal and extreme weather conditions

¹Based on July 2024 peak day experience, Load Reduction includes 14 MW of Commercial System Relief Program / Distribution Load Relief program and 52 MW of Smart Savers Direct Load Control Program. Load modifiers include 116 MW of Solar PV, Fuel Cells and Batteries acquired through FIT and RFP efforts.



 Thank
you