



# Summer Preparation 2024

**Michael Sullivan**

Vice President, Electric T&D

**Paul Napoli**

Vice President, Power Systems Management



# Electric T&D Capital Projects

➤ Major projects completed or expected to complete for summer 2024

## Transmission System Installations / Upgrades

- Arverne to Rockaway Beach New 33 kV Underground Circuit
- South Fork – Complete 23 kV to 33 kV Transmission Line Conversion
- Hewlett Area Transmission Reconfiguration
- 345 & 138kV Cable (Corrugated Aluminum Shield) Joint Reinforcement Program

## Substation Installations / Upgrades

- Buell, Amagansett, Navy Rd, East Hampton – 23kV to 33kV Conversion
- Elwood, East Garden City and West Hempstead - Switchgear Replacements
- Brooklyn Avenue substation – Install new substation, two 33 MVA 69/13kV banks and switchgear
- Bridgehampton substation - Install one 33 MVA 69/13kV bank and switchgear

## Distribution System Installations / Upgrades

- Elwood, Bridgehampton, Brooklyn Ave – New feeder installations
- Eaton's Neck - Feeder reconfiguration
- Lake Success – Feeder reinforcement
- Park Place – Feeder reinforcement and extension





# Electric T&D Maintenance

## 7 Scheduled work scope to be completed prior to summer period:

- 7 Inspect 1,603 capacitor banks and make repairs by June 30
- 7 Trim 100% of 2024 transmission circuit mileage plan
- 7 Trim 50% of 2024 distribution circuit mileage plan
- 7 Perform thermographic analysis of critical substation facilities
- 7 Make reliability improvements to prioritized circuits
- 7 Install and commission 57 new ASUV smart switches
- 7 Patrol and repair of critical items on 124 circuits over 150 miles of mainline
- 7 Patrol and repair of substandard conditions on 206 poor performing branch taps
- 7 System upgrades to 25 pockets of poor performance
- 7 Commissioning of 75 Automatic Circuit Reclosers
- 7 Complete pre-summer substation equipment maintenance as required





# Electric T&D – Other Actions

## ➤ No major transmission outages expected for the Summer Operating Period

- Barrett to Valley Stream 138-292 pipe type cable circuit had an oil leak due to a Town of Hempstead DPW contact case and the cable suffered from water intrusion on January 11, 2023. Pipe repairs and cable restoration were performed and the circuit returned in-service on June 24, 2023.
- 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

## ➤ Generation

- West Babylon GT & Glenwood GT # 1 are available to support under emergency conditions for summer 2024
- Northport APG and Port Jeff APG are available for emergency blackstart support
- Northport Unit #4 Generator Step-Up (GSU): The GSU replacement project was completed on June 17, 2023 by replacing the old one with a system spare and the unit is available to the system with full capacity
- South Fork Wind's NYISO commissioning activities are on-going and the project is expected to be fully commissioned for summer 2024

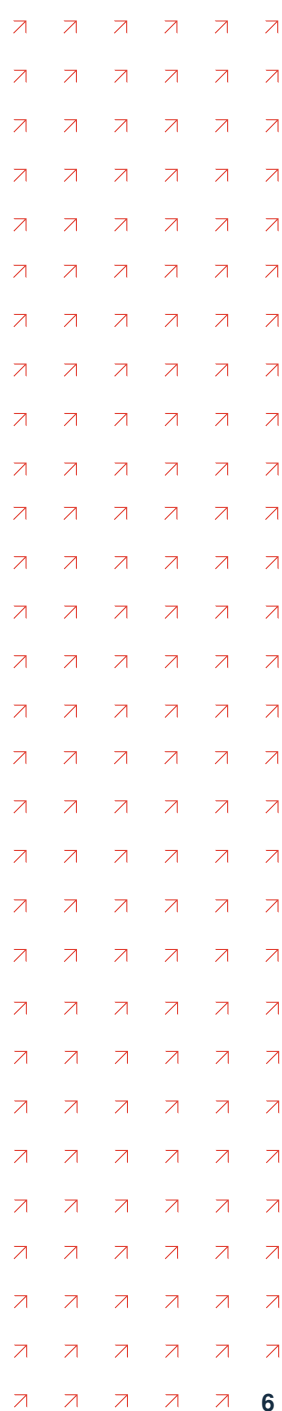
## ➤ Mobile Transformer

- Mobile bank will be available at 9HH Hither Hills to support final step of the East of Buell 33 kV conversion



# 2024 Restoration Training & Exercises

2024 MAJOR EMERGENCY RESPONSE DRILLS/EXERCISES	WHEN
Restoration Flooding Exercise	March 18, 2024
Alternate Control Center Drill	May 9, 2024
Emergency Capacity (Load Shedding) Event Tabletop Exercise	May 10, 2024
Restoration Contingency Functional Exercise	May 20 & 21, 2024
Annual Dispatch Area Operation Exercises: (4) Division Leadership, Damage Assessment `Coordination & Dispatch	April/May 2024
Annual Division Operation Exercises: (8) Dispatch Area Leadership, Coordination and Dispatch personnel	April/May 2024
Damage Assessment App Functional Exercise	April 2024
Annual Division PRC Operation Exercises: Primary Control personnel	April/May 2024
Annual Hurricane Tabletop Exercise	June 20, 2024
TRAINING	WHEN
Damage Assessment (Field Survey Personnel)	May – August 2024
Municipal Liaison	February 2024
Operations Training PRC, Damage Assessment, Dispatch Area Operations	March/April 2024
Console Information Coordinator (CIC) / Escalation processing & EOC Liaison	May 2024
ETR Training (E-Learning)	June 23, 2024
Operational Refresher Training: Primary Control, Damage Assessment Coordination, Decentralized Dispatch	May – June 2024
Customer Communications Training	June 2024
Crew Guide Training /Tag Holder	June – August 2024





# Power Supply – Steam Units

## Northport Units No. 1-4

- ↗ Routine Maintenance - all units
- ↗ Unit 2: Boiler Inspection
- ↗ Unit 4: Air Heater Basket Replacement

## E.F. Barrett Units No.1-2

- ↗ Routine Maintenance – all units
- ↗ Turbine Major Overhaul on Unit 1
  - Unit 1 is expected to finish the Planned Outage by last week of June 2024

## Port Jefferson Units 3-4

- ↗ Routine Maintenance – all units
- ↗ Unit 3: Repairs are being done for Unit 3 stack
  - Unit 3 is expected to be available by end of June – beginning of July



Port Jefferson Power Station

# Power Supply – Other Units

## ↗ Combustion Turbines

- Annual routine maintenance for the fleet will be completed and units will be available for system needs by June 1<sup>st</sup>
- Replaced Starting Transformer for Glenwood 2 and 3
- East Hampton 1 upgraded with High Pressure Water Injection
- Upgraded controls on Barrett Unit 5, 6 and 8 and added High Pressure Water injection
- Performed Combustion inspection on Barrett 6
- Performed Combustion inspection, and Generator inspection on Wading River 2

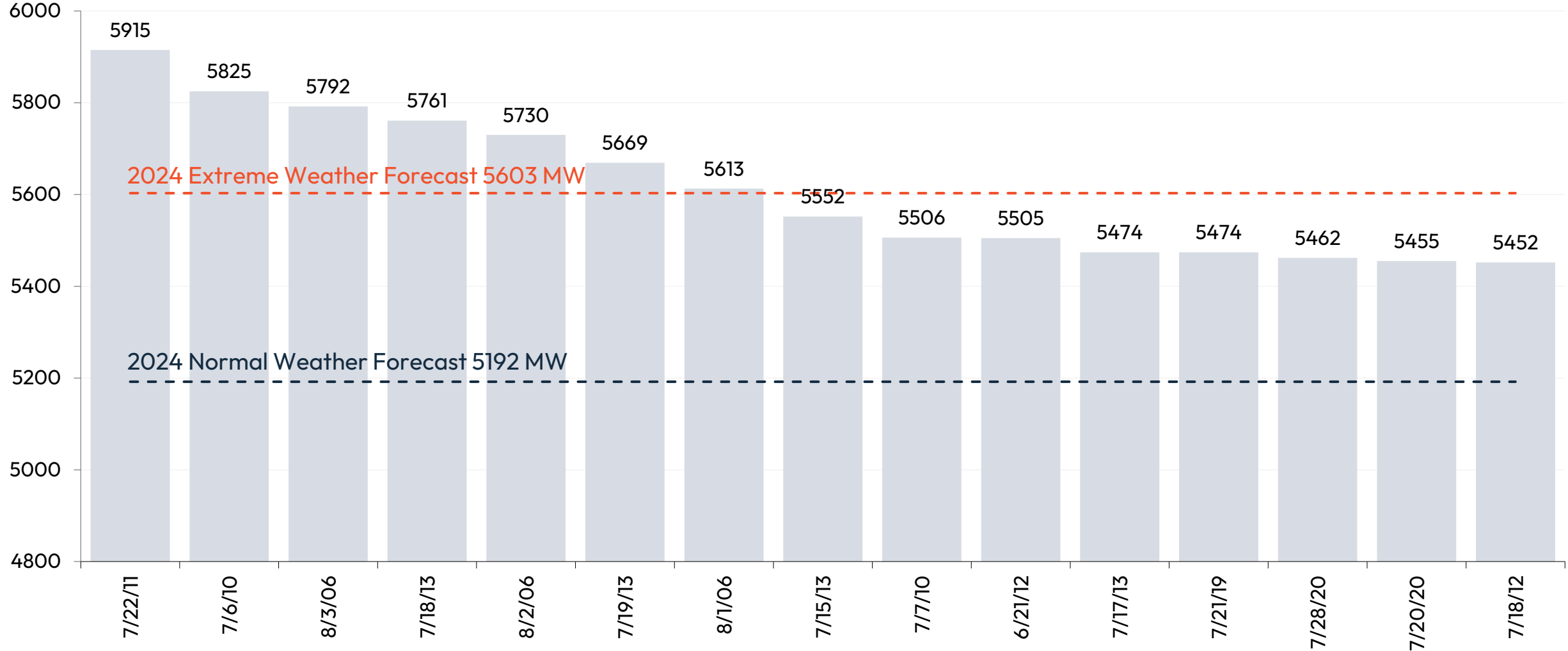
## ↗ Balance of Long Island Fleet

- All units will have undergone maintenance, inspections, and repairs as required
- Combustion Turbine Major overhaul was completed for Caithness. Combustion Turbine Generator Automatic Voltage Regulator was upgraded
- Pinelawn unit will be out of service until July 15 due to extensive damage to its Low Pressure Turbine (LPT). All other resources are expected to be available for summer 2024 including Neptune and Cross Sound Cable





# 15 Highest Long Island Control Area Loads



# Long Island Control Area 2024

## ↗ System Demand & Capability (MW)

	Base	Extreme Weather
Generation	4,711	4,688
Inter-ties	2,117	2,117
Total Supply	6,828	6,805
Peak Load	5,192	5,603
Load Reduction + Load Modifiers <sup>1</sup>	-163	-163
Net Load	5,029	5,440
<b>Margin</b>	<b>1,799</b>	<b>1,365</b>

## ↗ System Margins & Contingencies

- Sufficient margins exist for all major contingencies under 2024 forecast
- Operating procedures will be implemented, as required, to maintain system reliability during both normal and extreme weather conditions

<sup>1</sup>Based on July 2023 peak day experience, Load Reduction includes 11 MW of Commercial System Relief Program / Distribution Load Relief program and 36 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*