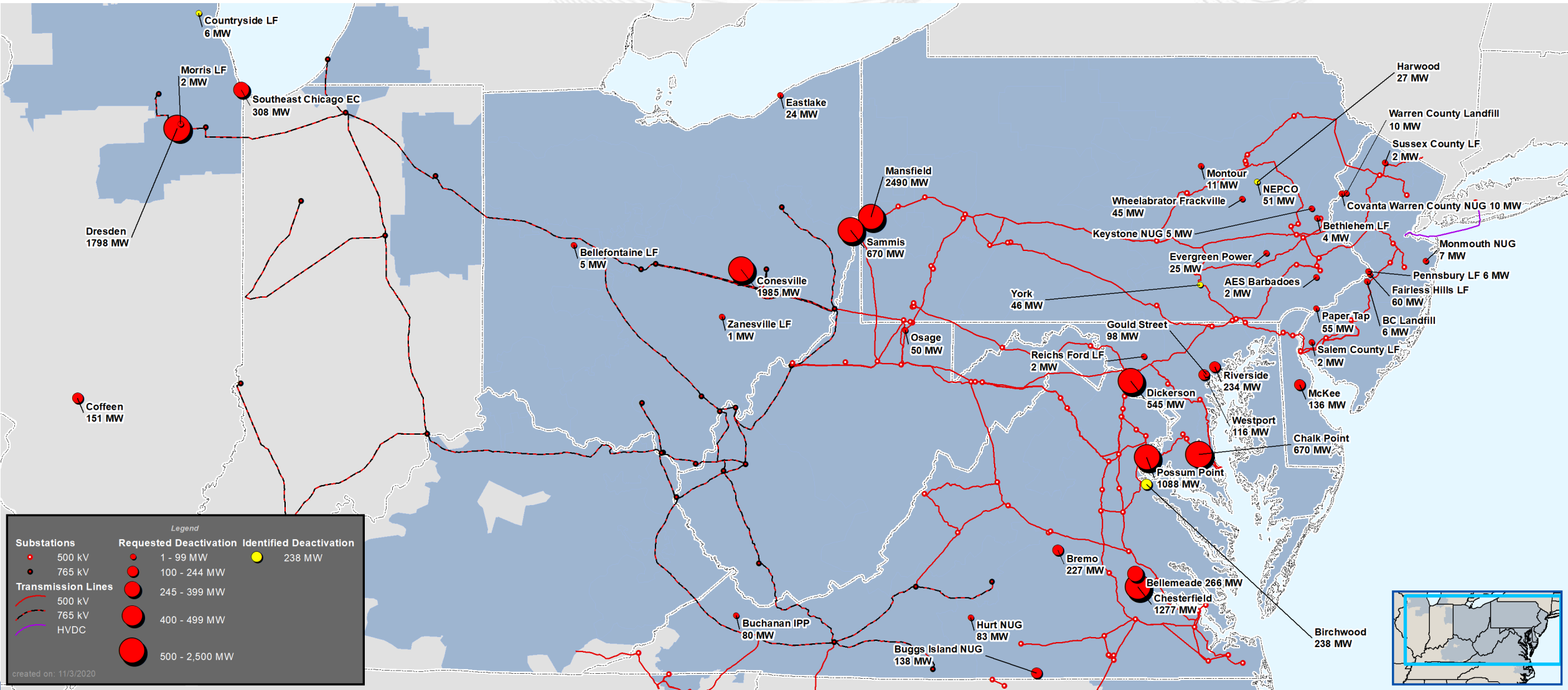




Generation Deactivation Notification Update

Transmission Expansion Advisory
Committee

December 1, 2020



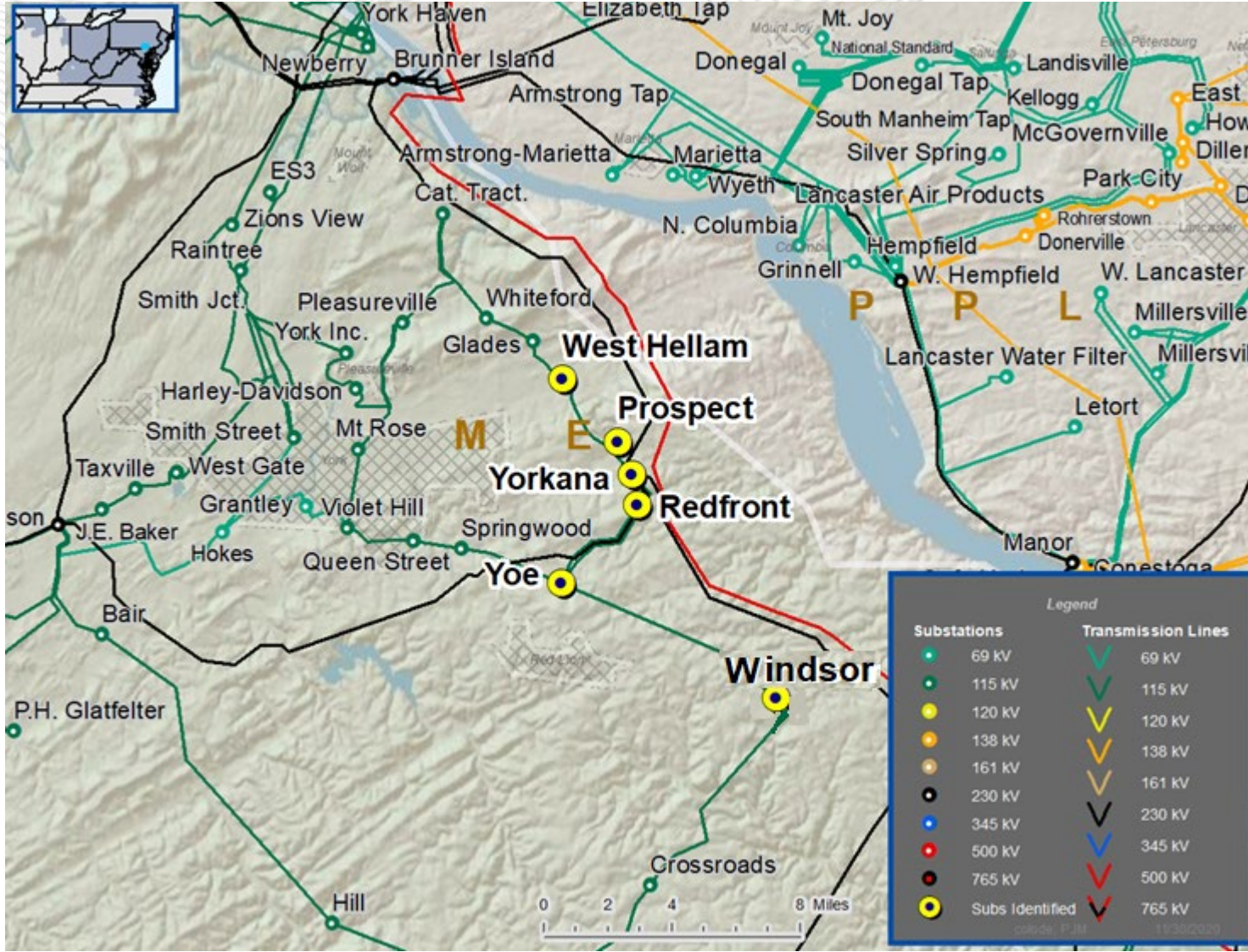


Deactivation Status

Unit(s)	Transmission Zone	Requested Deactivation Date	PJM Reliability Status
Harwood 1&2 (27.2 MW)	PPL	05/31/2021	Reliability analysis complete. No violation identified.
York (46.2 MW)	METED	05/31/2022	Reliability analysis complete. New baseline will be identified to resolve impacts. Units can retire as scheduled.
Countryside (5.8 MW)	ComEd	01/27/2021	Reliability analysis complete. No violation identified.
Backjord Battery (0 MW)	DEOK	02/03/2021	Reliability analysis underway.

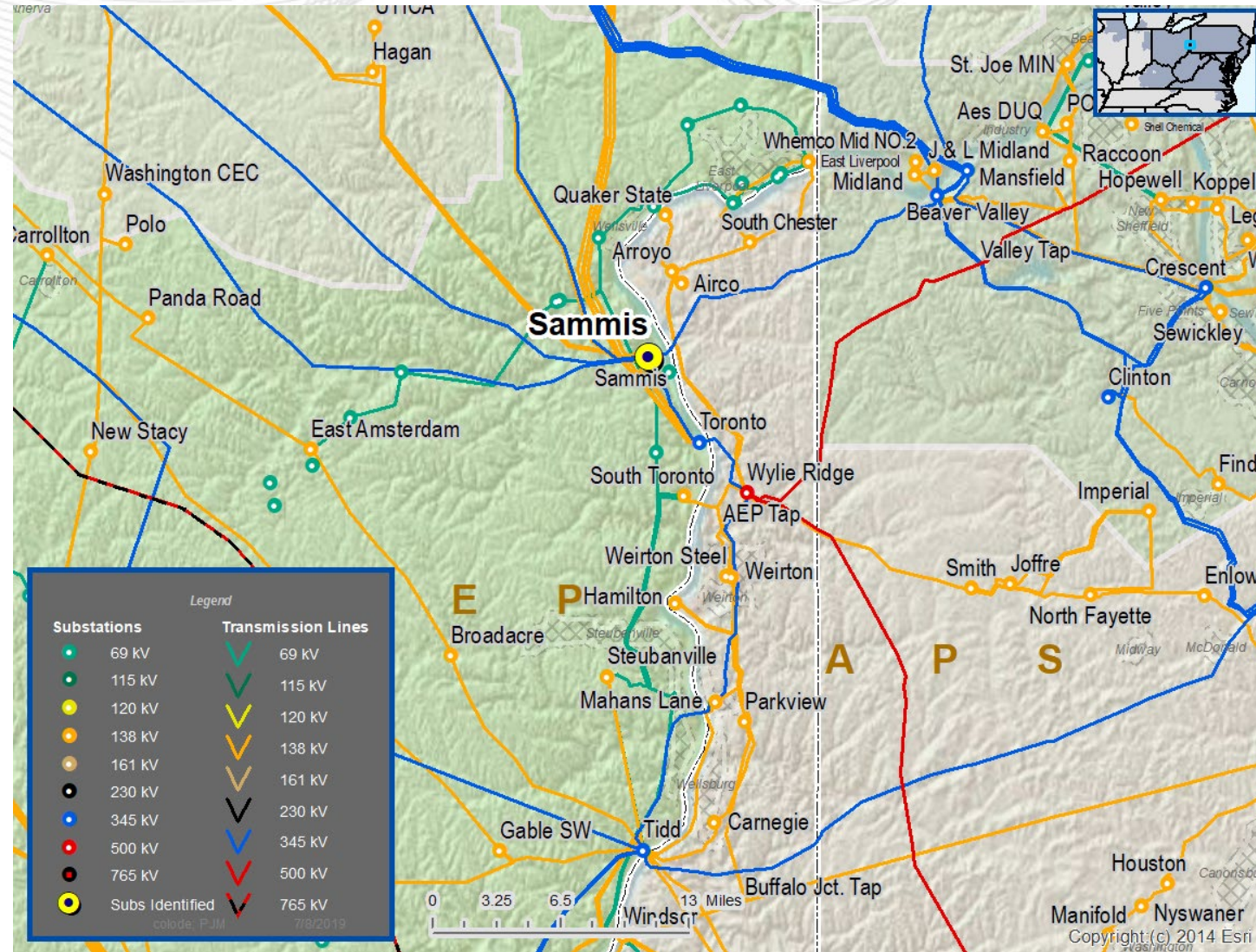
Problem Statement – N-1-1 voltage magnitude

- Voltage magnitude violations identified at West Hellam 115 kV, Prospect 115 kV, Yorkana 115 kV, Redfront 115kV, Yoe 115 kV, and Windsor 115 kV buses.
- Loss of Yorkana 230/115 kV #3 transformer followed by Yorkana 230 – Brunner Island 230 kV line and Yorkana 230/115 #1 transformer.



Sammis 1, 2, 3 and 4 deactivations – 668.6 MW

- The units were deactivated on 06/01/2020.
 - B3123 was issued for the necessary substation work associated with Sammis 5, 6, and 7 deactivations, and presented on 07/11/2019.
 - PJM received FE reinstatement for Sammis 5,6, and 7 on 07/29/2019.
 - The necessary substation work identified for B3123 is still needed for Sammis 1,2,3 and 4 deactivations.
- Install a new control building in the switchyard.
 - Construct a new station access road.
 - Install new switchyard power supply to separate from existing generating station power service.
 - Separate all communications circuits.
 - Remove two breakers connecting to Sammis 3 and 4 and replace with substation conductor at Sammis 345 kV yard.
 - Separate all protection and controls schemes.
- Estimated cost increase as a result of refined field assessments and engineering with the work required in 138 kV yard.
- **Original Estimated Cost: \$8M**
 - **New Estimated Cost: \$15.3M**
 - **Projected IS Date: 06/01/2022**



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Generation Deactivation Notification



Member Hotline

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- V1 - 11/25/20 - Original slides posted.
- V2 – 11/30/20 - Added Slide #4 for problem statement.