

AC Transmission and Peaker Retirements in IRM Study

Ryan Carlson

Senior Analyst, Resource Adequacy

Installed Capacity Subcommittee

February 2, 2022

Overview

- Review assumptions and cases
- Results
- Next Steps

Background

- **ICS request to run Tan 45 cases with AC Transmission in service and DEC NOx Rule Peakers retired**
- **To be completed prior to the Preliminary Base Case**
- **High level summary of changes**
 - 2023 – Topology changes for ConEd series reactors, Generator (Peaker) retirements
 - 2024 – AC Transmission topology updates
 - 2025 – Generator (Peaker) retirements
- **These assumptions are a projection and are subject to change between now and implementation**

Case 1

- **Start with 2022 FBC**
 - Neptune partially out of service
 - EFORd
 - NYCA: 12.1%
 - Zones G-J: 9.6%
- **Retire 2023 Peakers**
 - 37.7 MW in G
 - 745.9 MW in J
 - 24.6 MW in K
- **Updated Topology due to change in series reactors**
 - G to H 325 MW decrease (6,675 MW)
 - I to J 50 MW increase (4,400 MW)
 - I to J and K grouping 50 MW increase (5,693 MW)

- **Tan 45 Results**
 - IRM: 19.0%
 - Zone J: 79.7%
 - Zone K: 102.2%
- **EFORd**
 - NYCA: 11.8%
 - Zones G-J: 8.6%

Case 2

- Start with Case 1
- Updated Topology due to AC Upgrade
 - E to F, 3,925 MW
 - E to F and G (grouping,) 5,650 MW
 - E to G, 2,300 MW
 - F to G, 5,400 MW
 - G to H, 7,050 MW
 - UPNYSENY, 7,150 MW
- Tan 45 Results - *in progress*
 - IRM:
 - Zone J:
 - Zone K:
 - Zones G-J:

Case 3

- Start with Case 2
- Retire 2025 Peakers
- **Tan 45 Results - *in progress***
 - IRM:
 - Zone J:
 - Zone K:
 - Zones G-J:

Next Steps

- Complete Tan 45 cases
- Return to next ICS with results for discussion
- Discuss LCR impacts at ICAPWG

Questions?

Email IRM@nyiso.com with further questions