

# 2020 RNA Potential Scenarios-Updated

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February 27, 2020, KCC

# Background

- **The 2020 Reliability Planning Process (RPP) starts with the 2020 Reliability Needs Assessment (2020 RNA) followed by the Comprehensive System Plan (CRP)**
  - 2020 RNA Study Period: year 1 = 2021 through year 10 = 2030
- **The RPP is part of the Comprehensive System Planning Process and is performed pursuant to the Attachment Y of the NYISO OATT; see Section 31.2.**
  - Additional implementation details, including recently updated RNA Base Case inclusion rules, are captured in the RPP Manual #26
- **2020 RNA will be based on the information from the Gold Book 2020, the 2020 FERC 715 filing (power flow cases and auxiliary files), historical data, and market participant data**
- **Reliability evaluations: transmission security and resource adequacy**

# 2020 RNA: Scenarios Background

- **One of the objectives of the Reliability Planning Process is to identify, through the development of appropriate scenarios, factors and issues that might adversely impact the reliability of the Bulk Power Transmission Facilities (BPTF)**
  - The scenarios results are for information only
  - The scenarios will be built off the preliminary (“1<sup>st</sup> pass”) RNA Base Case
- **This presentation identifies a number of scenario candidates for the 2020 RNA, for review and comment**
  - Final list will be chosen from candidates at future meetings

# 2020 RNA: Potential Scenarios

## 1. Topline (High) Load Forecast: Resource Adequacy only

- Topline: GB 2020 Baseline load forecast without the Energy Efficiency Savings and Behind the Meter Generation, will be used for resource adequacy

## 2. Different Load Shape: Resource Adequacy only

- The Resource Adequacy Base Cases use historical shapes from 2002, 2006, and 2007. The Climate Change Phase 1 study developed hourly load shapes (*i.e.*, labeled “the reference case” in the Climate Change Phase 1 study) that can be used for this scenario

## 3. Zonal Resource Adequacy Margins: Resource Adequacy only

- Identification of the maximum level of zonal MW capacity that can be removed without either causing NYCA LOLE violations, or exceeding the zonal capacity

# 2020 RNA: Potential Scenarios, cont.

## 4. “Status-quo” scenario: Transmission Security and Resource Adequacy

- Removal of proposed major transmission and generation projects assumed in the RNA Base Case
- Applicability TBD each RNA based on the projects included in the Base Case

## 5. Simplified External Areas Model: Resource Adequacy only

- TBD

## 6. “70 by 30” policy scenario: Transmission Security and Resource Adequacy

- Model and simulate 2030 policy targets consistent with CARIS “70 by 30” scenario

# Questions?

# Our mission, in collaboration with our stakeholders, is to serve the public interest and provide benefit to consumers by:

- Maintaining and enhancing regional reliability
- Operating open, fair and competitive wholesale electricity markets
- Planning the power system for the future
- Providing factual information to policymakers, stakeholders and investors in the power system

