

# 2019 CARIS 1

# Background

---

Timothy Duffy

Manager, Economic Planning

**ESPWG**

June 25, 2019, KCC

DRAFT – FOR DISCUSSION PURPOSES ONLY

©COPYRIGHT NYISO 2019. ALL RIGHTS RESERVED



# Agenda

- **Schedule**
- **Model Development/ Key Basecase Assumptions**
- **Preliminary Assumptions Matrix**
- **Emissions Allowance Price Development**
- **Fuel Price Forecast Methodology**
- **Preliminary Benchmarking Results**

DRAFT – FOR DISCUSSION PURPOSES ONLY

©COPYRIGHT NYISO 2019. ALL RIGHTS RESERVED

# Target Schedule

## ■ June 2019

- Review Preliminary Key Base Case Assumptions and Assumptions Matrix
- Review Emissions Allowance Price Methodology
- Review Fuel Price Methodology

# Target Schedule

## ■ July 2019

- Review Benchmark Analysis
- Present Final Base Case Assumptions and Assumptions Matrix
- Present Final Emissions Allowance Price Forecasts
- Present Final Fuel Price Methodology and Forecasts
- Initial Discussion of Additional Metrics and Scenarios

DRAFT – FOR DISCUSSION PURPOSES ONLY

# Target Schedule

- **August-September 2019**
  - Present Historic and Forecasted Congestion Analysis
  - Review and Finalize Three Study Cases
  - Review and Finalize Generic Solutions
  - Review and Finalize Generic Cost Data

DRAFT – FOR DISCUSSION PURPOSES ONLY

# Target Schedule

- **October-November 2019**
  - Review Primary Metric Results
  - Review Additional Metric Results
  - Review Scenario Analysis Results
- **December 2019 – January 2020**
  - Draft and Final CARIS 1 Report

DRAFT – FOR DISCUSSION PURPOSES ONLY

# Target Schedule

- **February 2020**
  - BIC and MC Presentations/Approvals
- **March 2020**
  - Submit to NYISO Board for Approval
- **April 2020**
  - Public Information Session

DRAFT – FOR DISCUSSION PURPOSES ONLY

# Model Development

- **Based upon 2018 Comprehensive Reliability Plan (CRP)**
  - Reliable system through-out study period
    - No Market-Based or Regulated-Backstop solutions required
    - No Generic Capacity Additions Required
  - Study period 2019-2028
- **August 1<sup>st</sup> Lock-Down for Base Case**



# Updates from 2018 CARIS 2 Database (Generation)

- **Additions**
  - Ball Hill Wind (Zone A, 100 MW, 12/2019)
  - Swinging Bridge (Zone G, 9 MW, 3/2019)
  - Riverhead Solar (Zone K, 20 MW, 5/2019)
- **Modified in-service dates**
  - Ogdensburg (from 6/1/2018 to 8/1/2019)
  - Cassadaga Wind (from 12/2019 to 12/2020)
  - Cricket Valley (from 1/2020 to 3/2020)
- **Retirements**
  - Hudson Ave 4 (Zone J, 16.2MW, 4/1/2019)
  - Auburn/State St GT (Zone C, 7.3 MW, 4/9/2019)
  - Steuben (Zone C, 3.2 MW, 3/22/2019)
  - Monroe Livingston (Zone B, 2.4 MW, 2/14/2019)
  - Schuylerville Station (Zone F, 1.2 MW, 6/13/2019)
- **Selkirk I and II retained in the model due to rescinded retirement notice (in 12/2018)**

DRAFT – FOR DISCUSSION PURPOSES ONLY

# Updates from 2018 CARIS 2 Database (Generation)

- **Retirements**
  - Hudson Ave 4 (Zone J, 16.2MW, 4/1/2019)
  - Auburn/State St GT (Zone C, 7.3 MW, 4/9/2019)
  - Steuben (Zone C, 3.2 MW, 3/22/2019)
  - Monroe Livingston (Zone B, 2.4 MW, 2/14/2019)
  - Schuylerville Station (Zone F, 1.2 MW, 6/13/2019)
- **Selkirk I and II retained in the model due to rescinded retirement notice (in 12/2018)**
- **Receipt of DEC Compliance Plans prior to Database Lockdown will be incorporated (reflecting update to Tariff-defined inclusion rules)**

# Updates from 2018 CARIS 2 Database (Transmission)

- B-3402 & C-3403 Feeders out of service(2019)
- L33P (Ontario PAR) out of service until 1/2022
- Specific Selected AC PP Transmission projects (Segments A and B) in-service (2024) – T27/T19
  - 2018 CARIS 2 – generic project
- Expanded monitoring and securing of lower voltage system consistent with NYISO market operations
- Additional recent updates included as an Appendix.

DRAFT – FOR DISCUSSION PURPOSES ONLY

# Appendix: Transmission Facilities (previously included in 2018 CARIS 2)

- Erie – South Ripley series reactor(2019)
- Rainey-Corona PAR (2019)
- Leeds Hurley SDU(2020)
- Empire State Line Project/Western PP Selected project(2022)
- Generic AC PP Transmission project(2024)

DRAFT – FOR DISCUSSION PURPOSES ONLY

# The Mission of the New York Independent System Operator, in collaboration with its stakeholders, is to serve the public interest and provide benefits 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 policy makers, stakeholders and investors in the power system



[www.nyiso.com](http://www.nyiso.com)

DRAFT – FOR DISCUSSION PURPOSES ONLY

©COPYRIGHT NYISO 2019. ALL RIGHTS RESERVED