

2019 CARIS 1 Report

Jason Frasier

Manager, Economic Planning

Electric System Planning Working Group

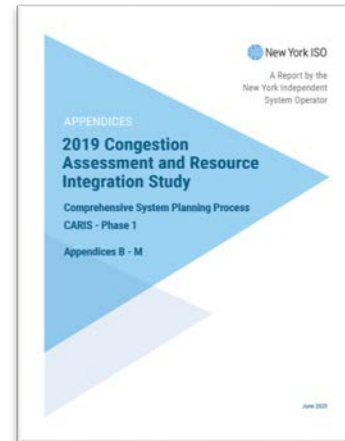
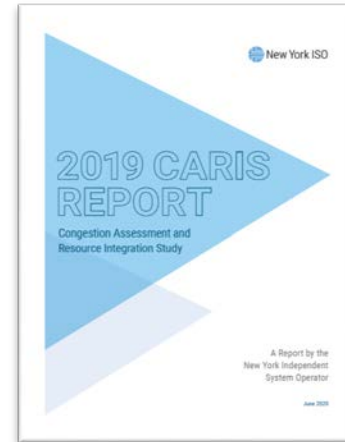
June 04, 2020

Agenda

- Report Overview
- Summary of Changes
- Next Steps

Report Overview

- **Report**
 - Executive Summary
 - Base Case and 70x30 Scenario
 - Key Findings
 - Appendix A Glossary
- **Appendix – B through M**



Summary of Changes

In Redline Report Posted

Redline = Change From Previous

Highlight = Stakeholder Clarifications

- Adjust section naming & order
- Enhance Executive Summary
- Address stakeholder feedback on the 70 x 30 scenario:
 - Clarify resource mixes are illustrative sets
 - Clarify possible causes for curtailment/congestion
 - Clarify the purpose, scope, and what's beyond the scope
 - Add high-level description of the replacement resources for the additional 1,310 MW from HQ to NYC
 - Describe ESR curtailment in the test case
 - Describe the impact from the reduced export to curtailment by increasing hurdle rates

Next Steps

- **Present report for action at June 24 Business Issues Committee**
- **Present report for action at July 1 Management Committee**
- **Seek approval from Board of Directors in the July meeting**

Questions?

CARIS Data Catalog

Previously presented at ESPWG

September 11, 2019

[CARIS Preliminary 70 x 30 Scenario Development](#)

October 4, 2019

[CARIS Scenario Load Forecast Development](#)

[CARIS 1 70x30 Scenario ESR Modeling](#)

October 23, 2019

[CARIS 70x30 Scenario Assumptions and Calculation](#)

November 18, 2019

[Preliminary Scenario Results \(High/Low Gas Prices and Loads\)](#)

February 27, 2020

[Review of Assumptions and Resource Mix](#)

March 16, 2020

[Preliminary Scenario Load Constraint Modeling, Nuclear Sensitivity and Additional Results](#)

April 6, 2020

[Preliminary Base Load Constraint Modeling, Nuclear Sensitivity and Additional Results](#)

April 23, 2020

[Constraint Modeling, Energy Storage Sensitivity and Additional Case Results](#)

May 4, 2020

[2019 CARIS Draft Report - 70x30 Section](#)

Previously presented at ESPWG (cont.)

May 22, 2020

[CARIS Draft Report, Appendix, & Data Tutorial](#)

June 4, 2020

[CARIS Report and Appendix](#)

Posted to ESPWG Meeting Materials

March 16, 2020

[Monthly Case Energy Output MWh – Updated 70x30 Build Out Scenario Load](#)

April 6, 2020

[Case Output By Type and By Zone](#)
[Monthly Case Type Energy MWh](#)
[70x30 RE Buildout Base Load](#)
[Preliminary 70x30 Scenario Pocket Map](#)

April 23, 2020

[Case Output By Type and By Zone](#)
[Case Output By Type and By Pocket](#)
[Monthly Case Type Energy MWh](#)
[Monthly Average Zonal LBMP](#)
[Hourly Information By Pocket](#)

May 22, 2020

[Hourly Wind Solar Curtailments By Pocket](#)
[Hourly Zonal Net Load](#)
[Fuel Forecast](#)

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

