

EIPC Scenarios for Analysis in 2014

EIPC received stakeholder input on possible scenarios to analyze in 2014 using the Roll-up Models developed earlier in 2013. In addition, the EIPC had posted two scenario ideas for consideration and as an example of the types of scenarios that might be analyzed as part of the 2014 effort. Those scenario suggestions included:

Submitted by Stakeholders:

1. Heat Wave and Drought
2. Updated Base Case
3. Indian Point Closed and Increased Gas Generation in Lower Hudson Valley
4. High Transmission Build-Out with Increased Canadian Hydro Import
5. Other “at risk” generation scenarios (no details provided)

Original Samples Posted by EIPC:

6. Inter-Regional Capabilities and Constraints during Winter Conditions
7. Inter-Regional Capabilities and Constraints during Spring Peak Conditions

Heat Wave and Drought

Submitted by: Eastern Interconnection States’ Planning Council (EISPC)

Study Case: 2023 Summer Peak

Questions to be Answered Based on Power Flow Analysis:

“What new interregional high voltage transmission facilities may be needed to support transfers over large geographic distances?”

Updated Base Case

Submitted by: New York PSC

Study Case: 2023 Summer Peak

General Description: Addition of NY Transmission Owners’ Transmission Solutions (“TOTS”)

Marcy South Series Compensation

Fraser – Coopers Corners 345 kV line reconductoring

Con Edison New 2nd Rock Tavern – Ramapo 345 kV line

Con Edison Staten Island Un-bottling

Updates in other Regions based upon firm resource additions/retirements

Indian Point Closed and Increased Gas Generation in Lower Hudson Valley

Submitted by: New York PSC

Study Case: 2023 Summer Peak

General Description: Start with Updated Base Case and then include:

Indian Point Closed

1000MW of gas fired generation added in the Lower Hudson Valley

Increased gas fired generation in other Regions

High Transmission Build-Out

Submitted by: New York PSC

Study Case: 2023 Summer Peak

General Description: Start with Updated Base Case and then include:

1000 MW of increased transfer capability over UPNY/SENY interface

1000MW HVDC from Canada

Increased transmission build-out in other Regions

Inter-Regional Capabilities and Constraints during Winter Conditions

Scenario Submitted by: EIPC as Sample Scenario 1

Study Case: 2018 Winter Peak

Questions to be Answered Based on Power Flow Analysis:

“What constraints arise when renewables, gas generation, etc. are transferred during winter conditions?”

Inter-Regional Capabilities and Constraints during Spring Peak Conditions

Scenario Submitted by: EIPC as Sample Scenario 1

Study Case: 2018 Spring Peak

Questions to be Answered Based on Power Flow Analysis:

“What constraints arise when renewables, gas generation, etc. are transferred during winter conditions?”

On March 25, 2014, the EIPC held an interconnection-wide webinar to discuss the scenario suggestions and collect input on the ones that were a higher priority. The original scenario suggestions, input from stakeholders on the webinar, and resource availability to undertake the analysis and reporting needed were considered by EIPC.

The result is that the following scenarios will be studied by EIPC in 2014.

Scenario A – Updated base case for 2023

The New York Transmission Owners’ Transmission Solutions (“TOTS”) projects will be added to the base case along with significant updates from other regions. Development of other

scenarios such as the shutdown of nuclear plants or other regional generation, or additional sensitivities that include additional regional transmission build-outs, would be handled, as appropriate, by the region involved rather than become part of the EIPC analysis.

Scenario B – Drought Scenario for 2023

Starting from the updated base case (Scenario A), the drought scenario suggested by EISPC would be studied including various transfers into the Southeast. EIPC recognizes this needs additional discussion with EISPC and specification of additional detail, which will be the first step in the scenario analysis process.

Possible Future Development of a Winter Peak Load Model

The possibility of developing a 2018 winter case as part of the scenario analysis was supported during the interconnection-wide webinar. EIPC believes that the additional resources needed to create a winter case from the current Roll-up cases would be equivalent to the effort to develop the original Roll-up cases. Therefore, it is more appropriate to defer the building of a winter case until the next round of Roll-up case development, possibly to occur in 2015. This will allow the development of a completely new winter case that utilizes the latest information from the regional planning efforts rather than a modification of the roll-up cases created in 2013.

Schedule for 2014 Scenario Analysis

Table 1. Timeline of 2014 Scenario Analysis Activities

Task*	Start	Finish
EIPC and EISPC finalize modeling assumptions for Heat Wave & Drought Scenario to be evaluated. (Scenario B)	4/15/2014	5/2/2014
EIPC performs update of previously created 2023 Summer Roll-up cases. (Scenario A)	4/15/2014	5/30/2014
EIPC recreates transfer analysis performed in the initial Roll-up analysis to identify effect of model updates on transfer capability between areas. (Scenario A)	5/30/2014	6/27/2014
EIPC modifies updated 2023 Summer Roll-up case to model the agreed upon assumptions for the Heat Wave & Drought conditions. (Scenario B)	4/25/2014	6/27/2014
EIPC performs Heat Wave & Drought analysis. (Scenario B)	6/27/2014	8/29/20134
EIPC assembles draft report (supplement to the original Roll-up Report) to incorporate results of transfer analysis on updated 2023 Summer Roll-up case and results of Heat Wave & Drought Scenario.	8/29/2014	10/31/2014

Hold web conference to present the scenario analysis results and to obtain input on the updated Roll-up report.	10/31/2014	11/28/2014
If needed, hold an interconnection-wide stakeholder meeting to review Roll-up report.	11/28/2014	12/31/2014

*Timeline dates are subject to change