

# 2009 CARIS Lessons Learned

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***Draft – for discussion only***

# 2009 CARIS Lessons Learned

- ◆ Purpose - to improve the CARIS model in the next CARIS cycle
- ◆ NYISO's list of suggested potential areas for improvements of CARIS model
- ◆ MPs are encouraged to send their inputs and actively participate in the process

# Potential areas for improvements

## 1. Hurdle Rates and Interchange Models

- *Develop a more detailed process to align future interchanges with a desired pattern based on historic patterns*

## 2. Scheduling and Dispatch of Pumped-Storage Units

- *Consider different commitment and dispatch options*

## 3. External Capacity and Load Forecast Step Changes

- *Enhance the RNA model for CARIS purposes*

## 4. Interface Limits

- *Develop nomograms and align the limits with historic operational levels*

# Potential areas for improvements

## 5. Hydro-Quebec Schedule

- *Align the max. scheduled transfer with historical levels*

## 6. Historic vs. Projected Congestion

- *Consider modeling transmission outages, virtuals, TSA*

## 7. Potential Transmission Line Solutions Are Limited

- *Consider other transmission solutions such as PARS, Capacitor Banks, SVC, etc.*

## 8. NYCA Imports/Exports

- *Re-examine the external pricing methodology*

The New York Independent System Operator (NYISO) is a not-for-profit corporation that began operations in 1999. The NYISO operates New York's bulk electricity grid, administers the state's wholesale electricity markets, and provides comprehensive reliability planning for state's bulk electricity system.

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