

2015 CARIS 1 Kick-Off

Timothy Duffy

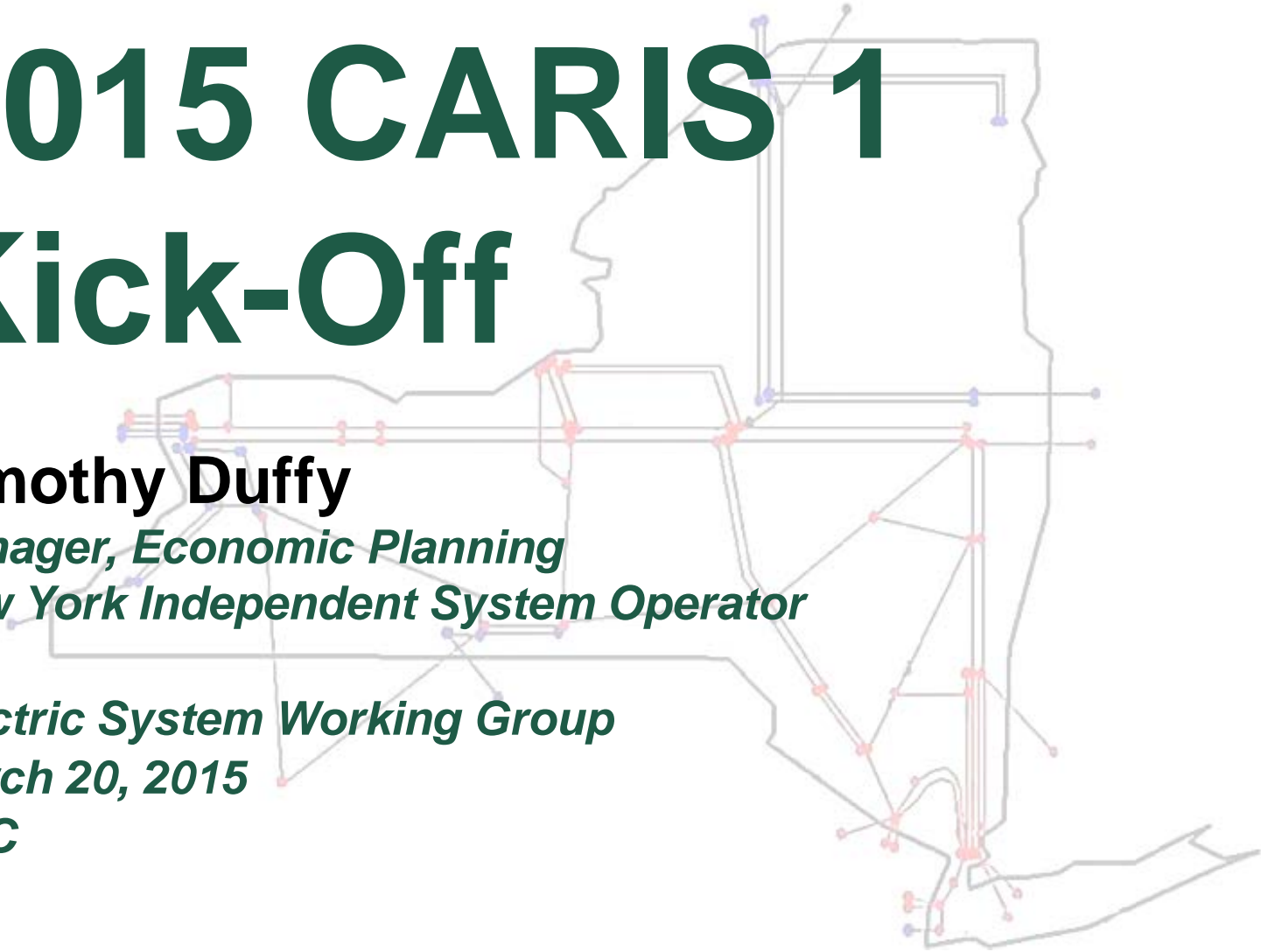
Manager, Economic Planning

New York Independent System Operator

Electric System Working Group

March 20, 2015

KCC



Target Schedule

◆ March 2015

- *Review Assumptions Matrix (3/20/2015)*
- *Initiate Collection of Generic Cost data (3/20/2015)*

◆ April 2015

- *Presentation of Benchmarking/Alignment Results (4/7/2015; 4/22/2015)*
- *Identification of Additional Metrics (4/7/2015; 4/22/2015)*
- *Identification of Scenarios (4/7/2015; 4/22/2015)*

◆ May 2015

- *Review CARIS-related Gold Book Data (5/4/2015)*
- *Present Historic and Forecasted Congestion Analysis (5/4/2015)*
- *Initial Discussion of Generic Solutions (5/4/2015)*
- *Initial Discussion of "Study Cases" (5/4/2015)*
- *Finalize Generic Solutions (5/21/2015)*
- *Finalize "Study Cases" (5/21/2015)*

Target Schedule

- ◆ **June 2015**
 - *Review of Scenario Analyses (6/2/2015; 6/25/2015)*
 - *Review Results for Additional Metrics (6/2/2015; 6/25/2015)*
 - *Review Primary Metric Results (6/2/2015; 6/25/2015)*
- ◆ **July – August 2015**
 - *Draft and Final CARIS 1 Report (7/7/2015; 7/30/2015; 8/11/2015)*
- ◆ **September 2015**
 - *BIC and MC Approvals*
- ◆ **October 2015**
 - *Submitted for BOD Approval*

Model Development

- ◆ **Based upon most recent Comprehensive Reliability Plan (CRP)**
 - *Ensuring reliable system throughout study period*
 - *No Market-Based Solutions or Reliability-Backstop Solutions necessary*
- ◆ **Study period in alignment with CRP (*i.e.*, 2015-2024)**
- ◆ **April 15th Lock-Down**
 - *Pending receipt of EIA's Annual Energy Outlook (AEO)*

Key Model

Assumptions from CRP

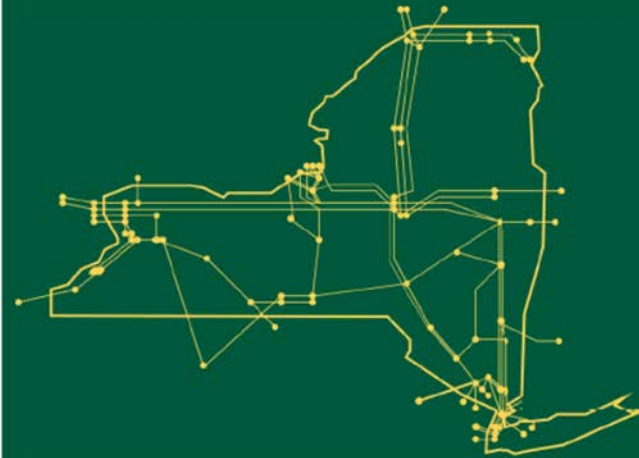
	Comprehensive Reliability Plan
2014	Danskammer (501 MW) in 12/2014 Binghamton CoGen (41 MW) in 12/2014
2015	USPG Astoria 20 (177 MW) in 5/2015 Bowline #2 Repair (405 MW) in 7/2015 Taylor Biomass (19 MW) in 9/2015 Dunkirk Refueling (435 MW) in 9/2015 National Grid Five Mile Rd LTP in 12/2015
2016	ConEd DR/EE/CHP (125 MW) 6/2016 Transco TOTS in 6/2016
2017	RG&E Station 255 (RARP) LTP in 5/2017 National Grid LTP in 12/2017 NYSEG LTP in 12/2017 Cayuga 1 & 2 Out of Service in 12/2017

Additional Assumptions

- ◆ **Athens SPS out-of-service in 6/2024**
 - *Modeled in-service only through end of contract between National Grid and Athens*

- ◆ **Ginna in-service through end of study period**
 - *Required for reliability*
 - *License runs through 2029*
 - *No firm LTP from local transmission owner*

The New York Independent System Operator (NYISO) is a not-for-profit corporation responsible for operating the state's bulk electricity grid, administering New York's competitive wholesale electricity markets, conducting comprehensive long-term planning for the state's electric power system, and advancing the technological infrastructure of the electric system serving the Empire State.



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