

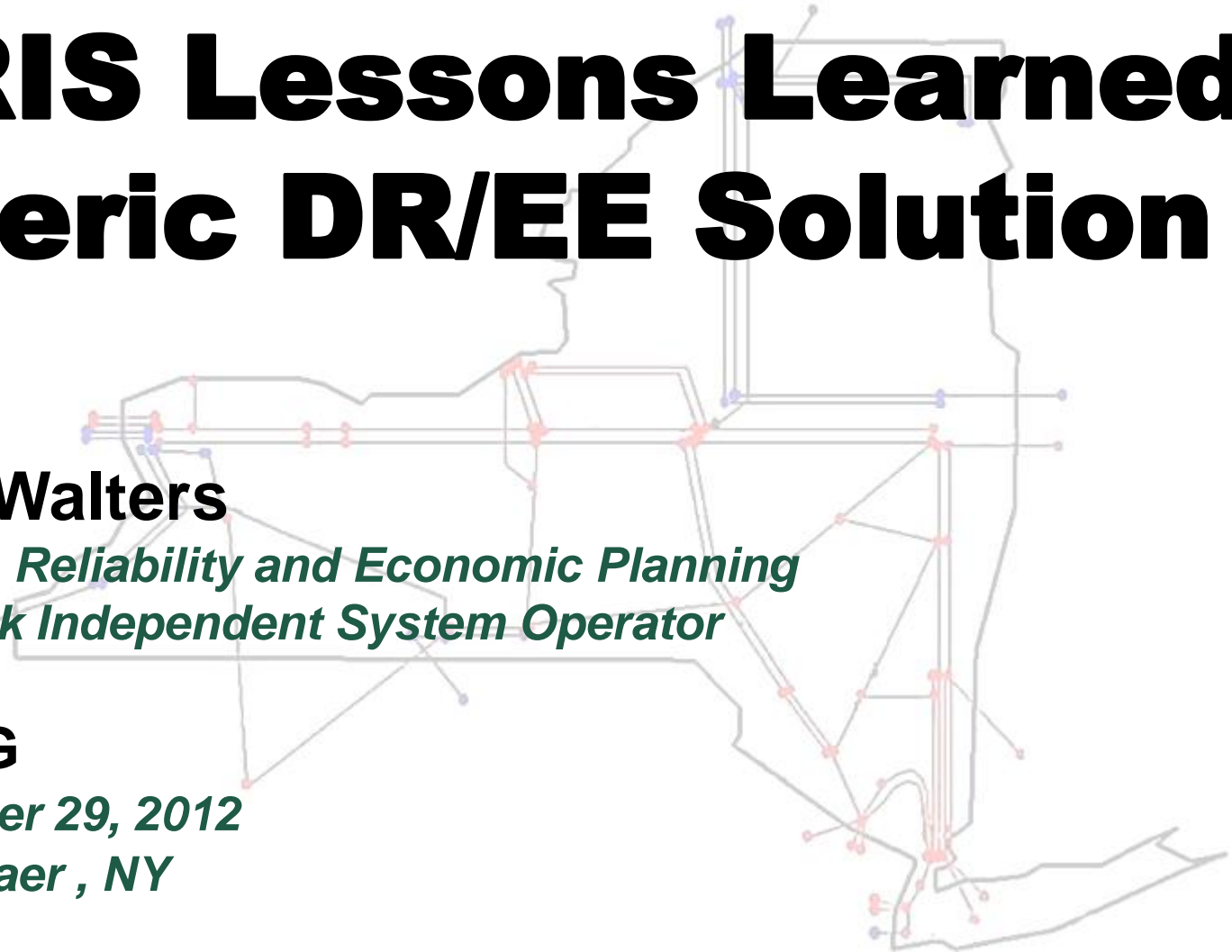
CARIS Lessons Learned: Generic DR/EE Solution

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2011 CARIS Phase I Modeling

- ◆ **DR generic solution consists of**
 - *200 MW of peak load energy efficiency*
 - *200 MW of demand response modeled at 100 peak hours*

- ◆ **Location of DR generic solution**
 - *Downstream of the congested elements*
 - *The DR installed in a zone was limited to 10% of the peak zonal load. If the DR exceeds 10%, it is prorated based on peak load between the selected zone and the next downstream zone.*

Lessons Learned: presented in 5/23 ESPWG

- ◆ Perform study before next CARIS 1 to determine optimal combination of demand response and energy efficiency for generic DR solution
 - *Will consider improvements in the next CARIS cycle consistent with the FERC Order 745 on DR*
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Updates

◆ NYISO OATT Attachment Y Clean up

Requirement changed

- *Section 31.3.1.3.3: “All resource types shall be considered on a comparable basis as potential solutions to the congestion identified: generation, transmission, demand response, and energy efficiency.”*

◆ FERC Order 745

- *NYISO made compliance filing in August 2011.*
- *Net Benefit Test was proposed to decide the monthly offer floor.*
- *FERC has not accepted this filing.*

Proposed 2013 CARIS Phase I Modeling

- ◆ **FERC Order 745**
 - *Will not model the price-responsive demand response in 2013 CARIS Phase I.*
 - *Will consider modeling it in the future.*
- ◆ **Model energy efficiency and demand response as two separate generic solutions**

Proposed Modeling of EE for 2013 CARIS Phase I

◆ Energy efficiency

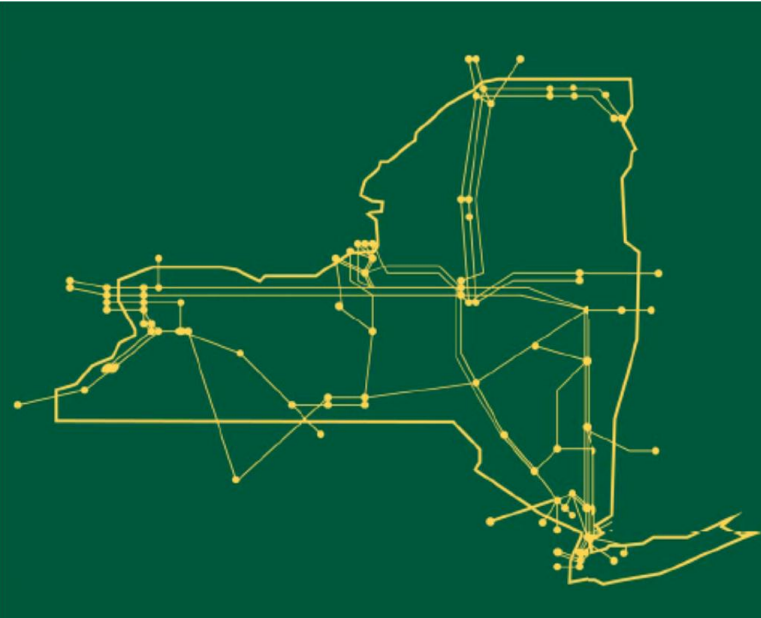
- *200 MW blocks of peak load energy efficiency*
- *Aggregated at the downstream of the congested elements.*
- *Limited to whole blocks that total less than 10% of the zonal peak load*
- *If one zone reaches a limit, energy efficiency may be added to other zones*
- *Goal to reduce congestion by at least 50%*

Proposed Modeling of DR for 2013 CARIS Phase I

◆ Demand response

- *200 MW demand response modeled at 100 peak hours*
- *Use the same block sizes in the same locations as energy efficiency*

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