

# Heat Wave Operations June 20-22, 2012

**Wes Yeomans**

*Vice President - Operations*

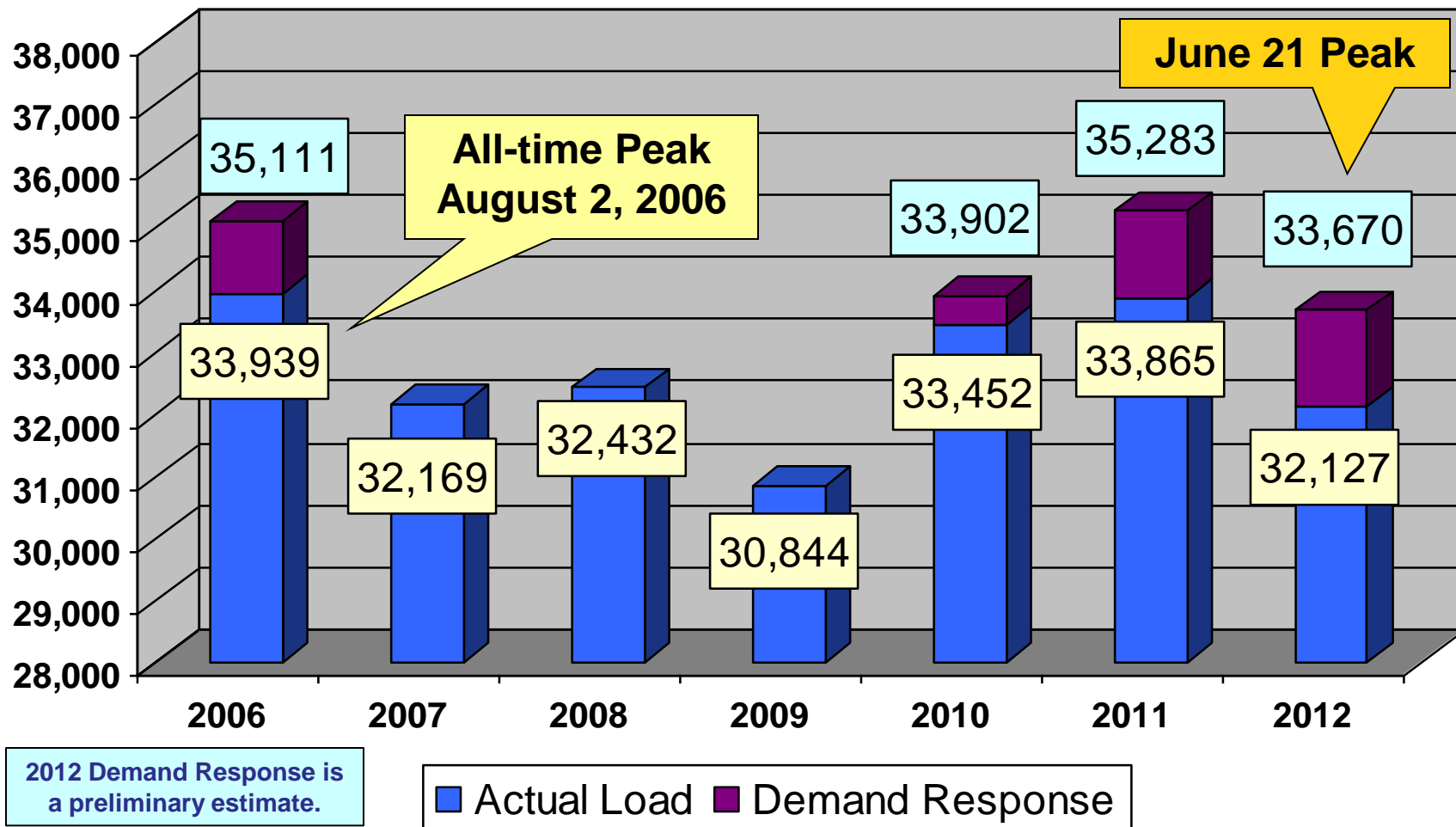
*New York Independent System Operator*

**Operating Committee**

*July 12, 2012*

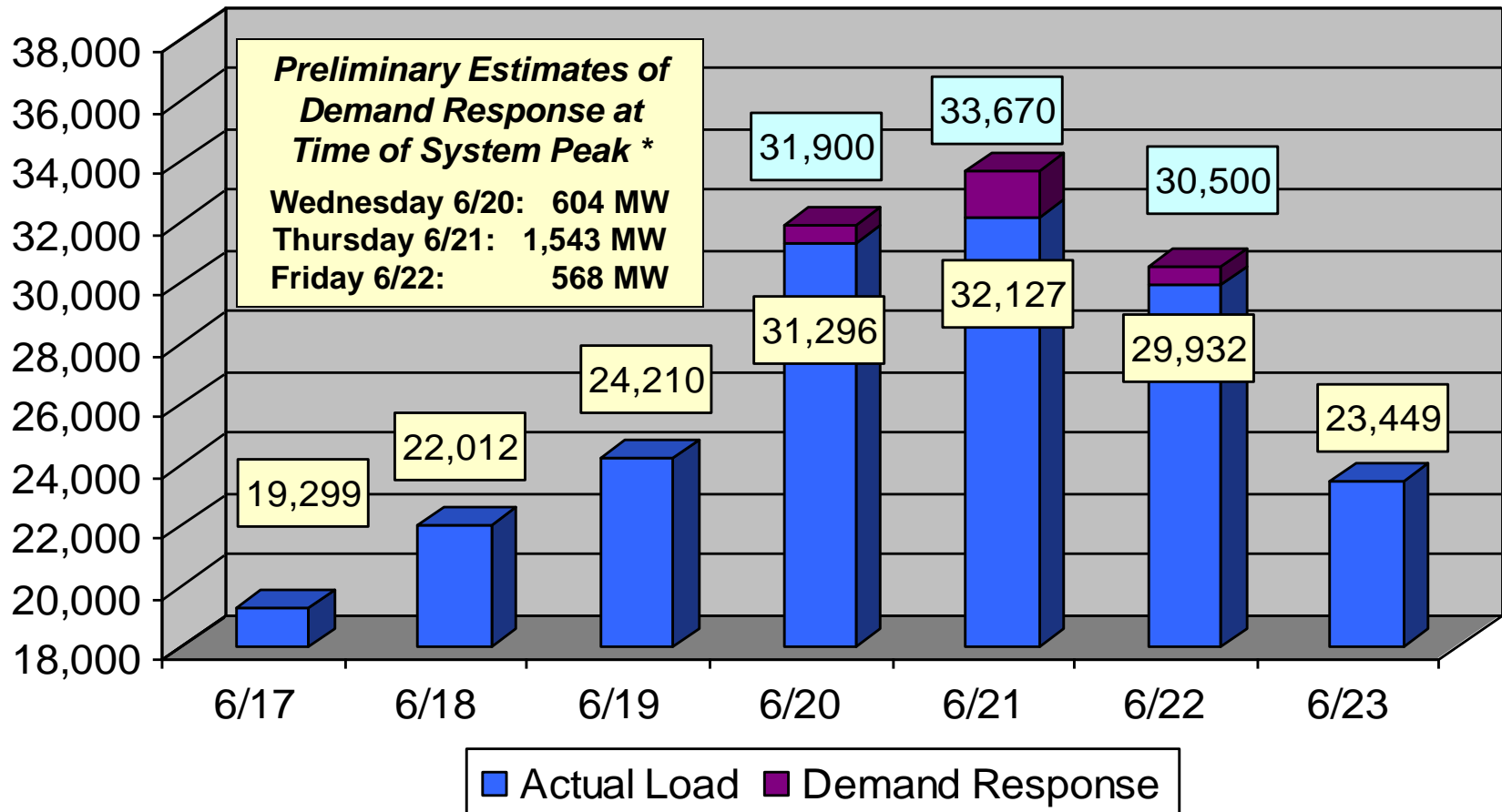
*Krey Corporate Center*

## Summer Peak Loads - 2006 to 2012 (MW)



## Daily Peaks & Demand Response - MW

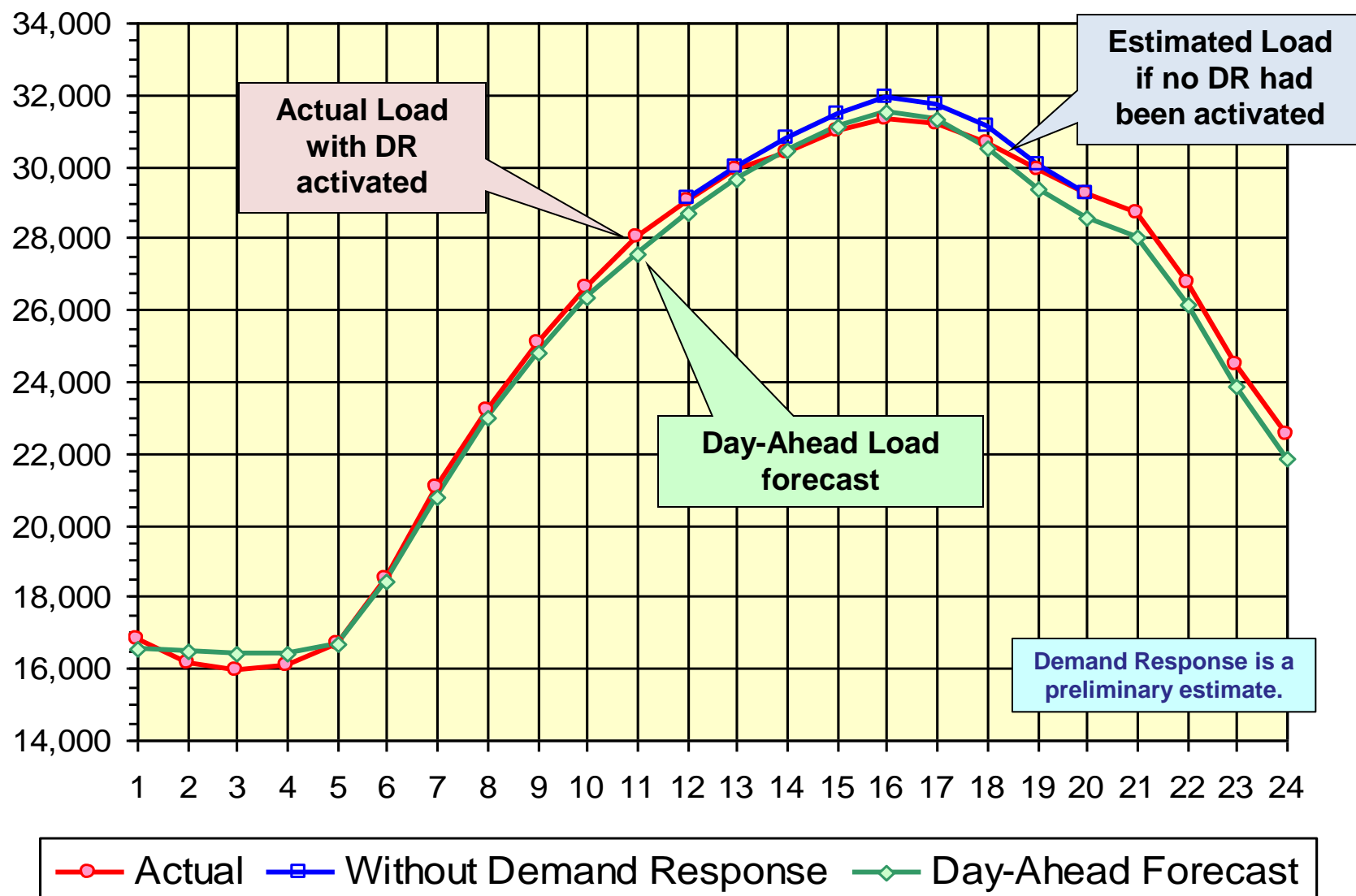
June 17 to June 23, 2012



\*Demand response reflects backcasting methodology

# NYCA - June 20, 2012

## With & Without Demand Response



# Wednesday - June 20, 2012

## ♦ Statewide System Demand:

- *Actual peak NYCA system load was 31, 296 MW*
- *EDRP/SCR estimated value as provided by RIPs was 616MW*
- *ISO Day-Ahead load forecast was 31, 700MW*

## ♦ Transmission Operations:

- *HQ Chateaugay –Massena 765kV Interconnection forced out from 6/19 HB17 through 6/20 HB13*
- *PJM Neptune HVdc Interconnection forced out*

## ♦ Generation Operations:

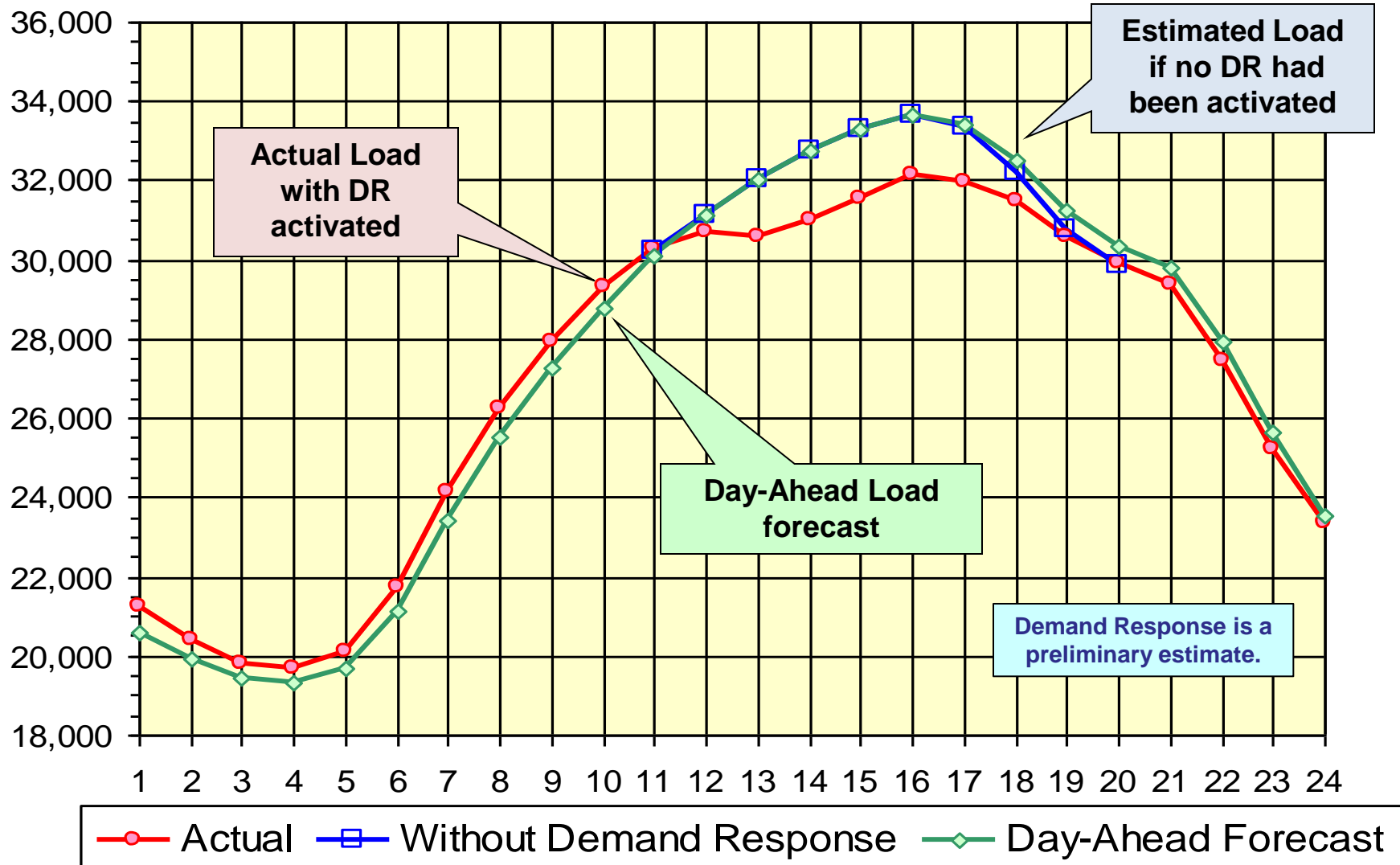
- *Over 1100MW of Southeast NY (SENY) capacity was unavailable for operation– resulting in the need for SENY Demand Response at lower statewide demand levels than prior years*
- *ISO SRE of Danskammer 1&2 for SENY transmission security*
- *ISO SRE of Oswego 6 for statewide capacity needs following forced outage of HQ Chateaugay-Massena 765kV Interconnection*

## ♦ Demand Response Operations:

- *EDRP and SCR resources were activated in Zones G- J from HB14 through HB17*
  - *Activated for SENY transmission security (requirement to restore system power flows to within normal operating limits within 30 minutes)*
- *EDRP and SCR resources were activated in Zone C from HB14 through HB17*
  - *Activated for Oakdale 345kV voltage*

# NYCA - June 21, 2012

## With & Without Demand Response



# Thursday - June 21, 2012

## ♦ Statewide System Demand:

- *Actual peak NYCA system load was 32, 127 MW*
- *EDRP/SCR estimated value as provided by RIPs was 1703 MW*
- *ISO Day-Ahead load forecast was 33, 700MW*

## ♦ Transmission Operations:

- *HQ Chateaugay –Massena 765kV Interconnection forced out from 6/21 HB10 through 6/21 HB14*
- *PJM Neptune HVdc Interconnection forced out*
- *Dysinger East interface was limited to maintain pre-contingency Oakdale 345kV voltage following the forced reduction of Zone C generation*

## ♦ Generation Operations:

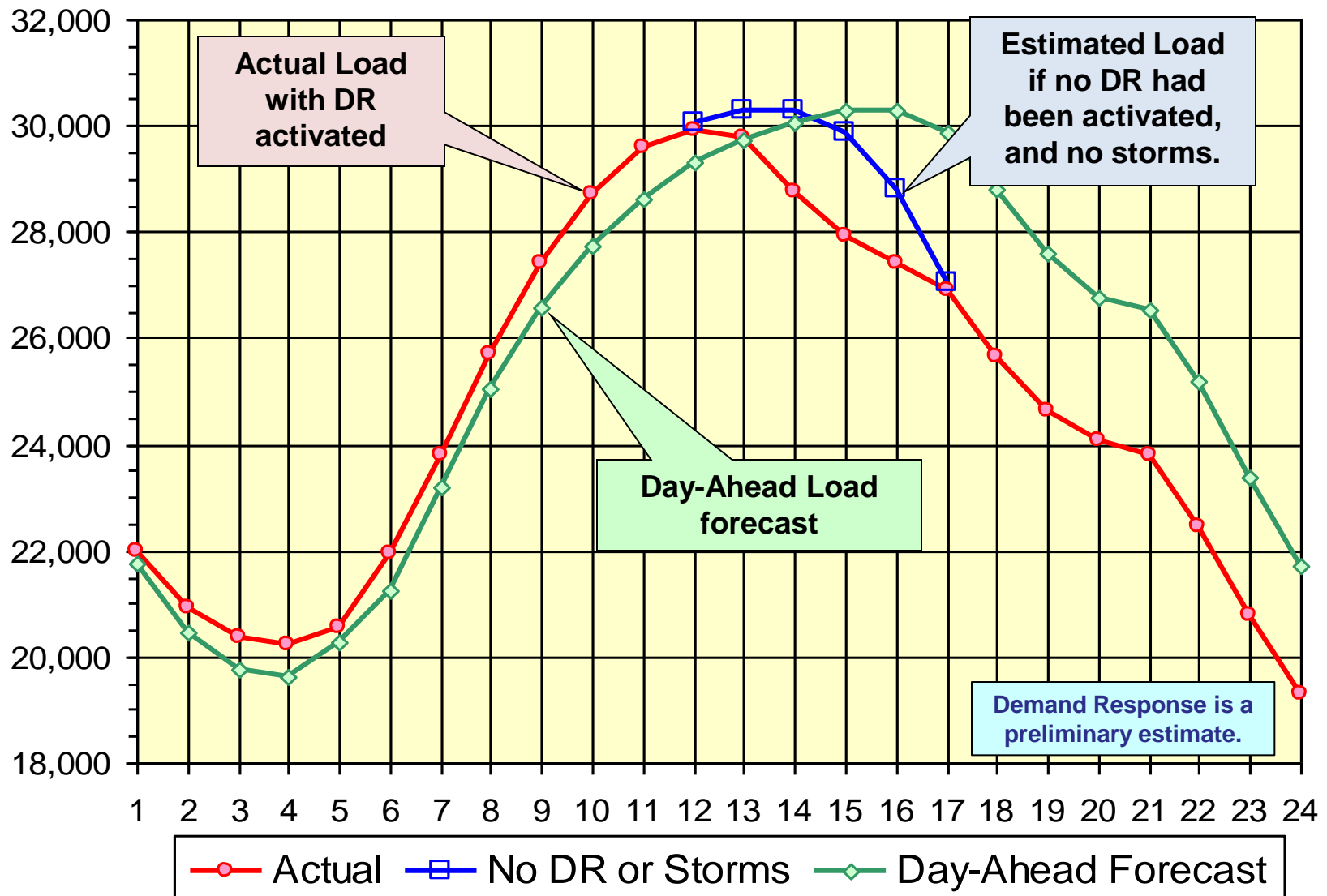
- *Over 1100MW of Southeast NY capacity was unavailable for operation at peak*
- *ISO SRE of Oswego 6 and Kintigh for statewide capacity needs*
  - Day-Ahead SREs in response to unknown return of HQ 765kV interconnection on 6/20 and start-up notification requirement

## ♦ Demand Response Operations:

- *EDRP and SCR resources were activated in Zones G –K from HB13 through HB17*
  - Activated for Zones G-K transmission security operations
  - Zone J activated beginning at HB12 at Con Edison's request
- *EDRP/SCR resources were activated for Zones A-F from HB13 through HB17*
  - Activated Zone B for Rochester 345/115kV transformer loadings
  - Activated Zone C for Oakdale 345kV voltage
  - Activated Zone A, D, E, F for statewide capacity requirements in response to the loss of over 800MW of upstate generating capacity

# NYCA - June 22, 2012

## With & Without Demand Response





# Friday - June 22, 2012

## ♦ Statewide System Demand:

- *Actual peak NYCA system load was 29,932 MW*
- *EDRP/SCR estimated value as provided by RIPs was 656 MW*
- *ISO Day-Ahead load forecast was 30, 500MW*
- *Thunderstorms developed earlier than forecasted and reduced SENY load*

## ♦ Transmission Operations:

- *PJM Neptune HVdc Interconnection forced out*

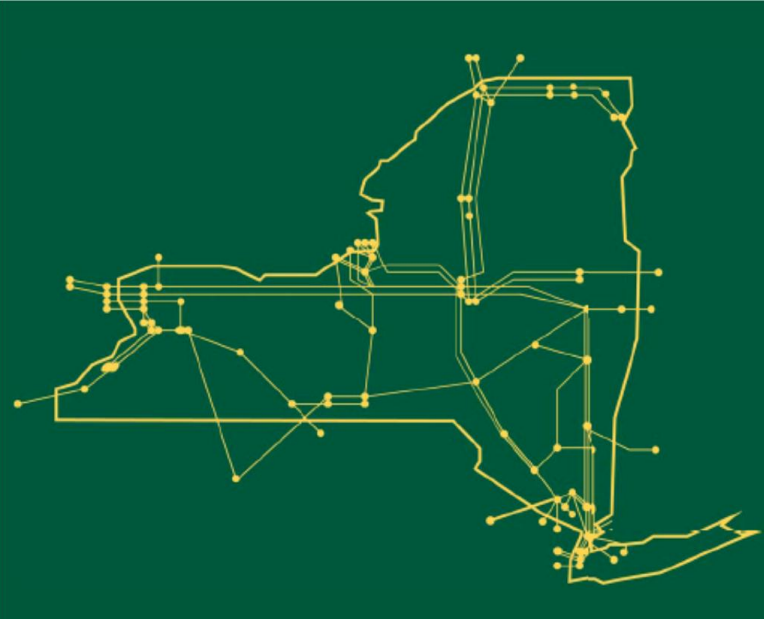
## ♦ Generation Operations:

- *Over 1500MW of Southeast NY capacity was unavailable for operation at peak*
- *ISO SRE of Roseton 1 for SENY transmission security*

## ♦ Demand Response Operations:

- *EDRP and SCR resources were activated in Zones G –K from HB13 through HB17*
  - Activated for Zones G-K for forecasted reserve shortages needed to maintain transmission security operations

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.



*[www.nyiso.com](http://www.nyiso.com)*