

# Max Load Reduction in DRHUB

DRS

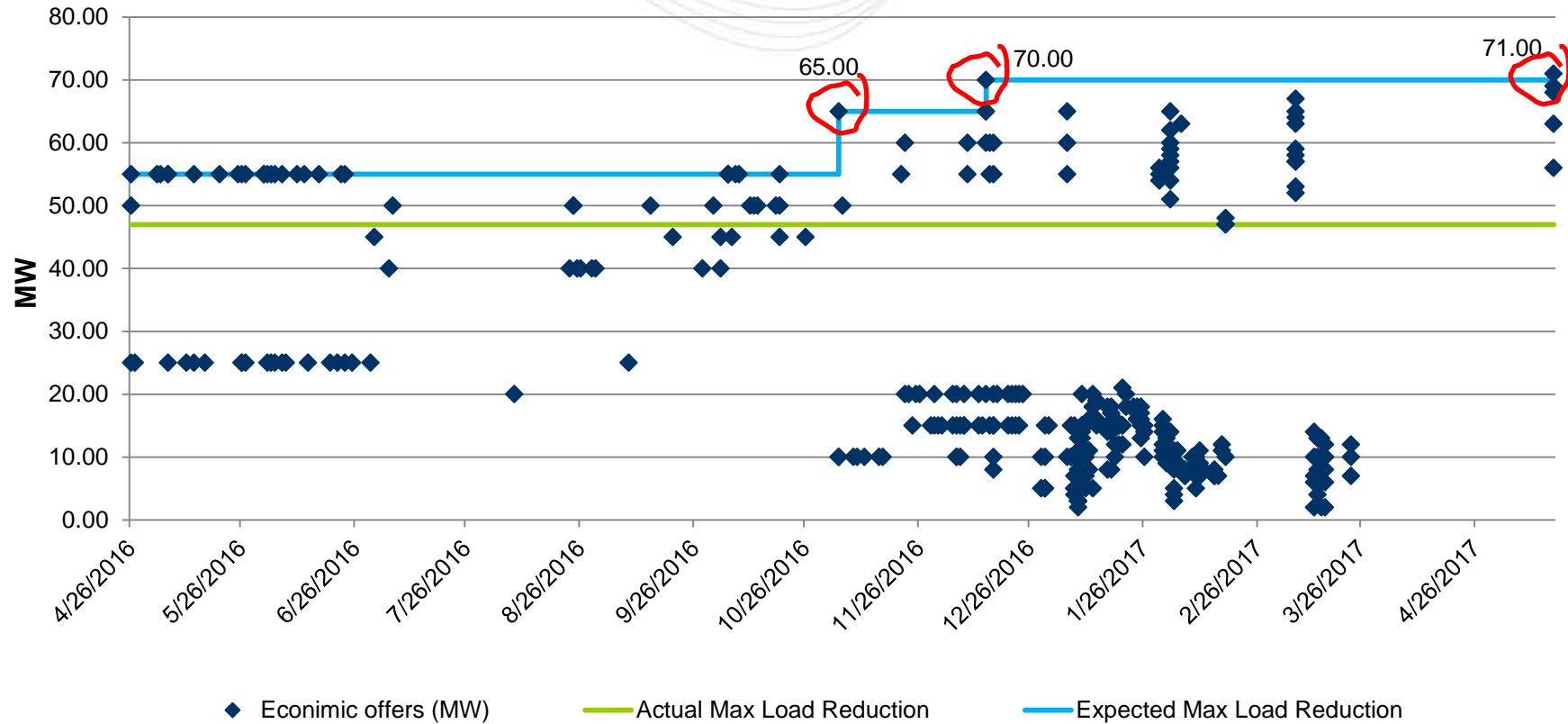
June 17, 2017



## Focus of this presentation:

- Maintaining up to date Max Load Reduction number remains crucial for PJM reporting accuracy
- Incorporating a validation check on the offered MWs in the Real Time and Day Ahead Markets on Markets Gateway will help to avoid errors and typos in offered MW amounts and improve PJM system accuracy

# Example: Registration offers in Markets Gateway



# Manual 11: Energy & Ancillary Services Market Operations

## Section 10: Overview of the Demand Resource Participation

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- The CSP shall provide the load reduction kilowatt capability for each method which represents a reasonable estimate of the location's expected hourly energy load reduction (at the retail meter) that will be performed during a system emergency when wholesale energy prices are high and the resource participates in the wholesale market.
- The load reduction kilowatts capability may be significantly different than the capacity commitment or the economic energy offered into wholesale market on a daily basis.
- The load reduction capability should not reflect the entire load for the location unless the location expects to reduce all loads during a PJM emergency when participating in the wholesale capacity and/or energy market.
- If Generation will be used to reduce all of the load at the location and the location will reduce load with other load reduction methods then the Generation load reduction capability should reflect the expected load after the other load reduction methods have been deployed (this will allow the sum of each load reduction method capability to reflect the total load reduction capability for the location).

## 1. Location with Economic registration only

The CSP shall provide the MAX load reduction kilowatt capability for each location on the registration which in sum equals to the highest offer for this registration. If the CSP desires to offer more kW in Markets Gateway (MG) than the registration's current Max load reduction number then the CSP shall update one/all the location's Max load reduction number before offering this amount in MG.

## 2. Location with Load Management DR Full registration only

The CSP shall provide the MAX load reduction kilowatt capability which is a reasonable estimate of the location's expected hourly energy load reduction that will be performed during a system emergency.

## 3. Location with Economic and LM DR Full registrations under the same CSP

The CSP shall provide the MAX load reduction kilowatt capability which equals to the highest of the options 1 & 2 above. Can be updated on either Economic or DR Full registration and will be copied over to the remaining one.

Location is in	Max Load Reduction for location shall equal to	Should be modified when
Economic reg only	Highest offer in MG (in case of >1 locations on the registration should be a sum max load reductions for all locations)	The desired offer in MG is higher than the current Max load reduction
LM DR Full reg only	Reasonable estimate of the energy load reduction during system emergency	Reduction Methods have been updated or more accurate reduction estimate was evaluated
Economic & LM DR Full under same CSP	Highest of Max load reduction for economic and LM DR Full	The highest max load reduction of 2 registrations has changed

Registration view: Registration Maximum Load Reduction Capability is a sum of locational Maximum Load Reduction Capabilities.

Locations

Energy Loss Factor

Maximum Load Reduction Capability (kW)

Actions	Location ID	Location	Zone	EDC Account Number	Pricing Point	Address	Energy Loss Factor	Max Load Reduction (kW)	Meter Type	RERRA
	2056	DR reg test	PECO	1365465251	PECO_RESID_AGG	12 Winkie Way, Park, IN 19876	1.44	1134	EDC_METER	N/A
	63039	ELRS2204JAY	PECO	ELRS2204JAY	PECO_RESID_AGG	Test Address 1, Test Address 2, Audubon, PA 19052	1	5399	EDC_METER	View RERRA

Records Per Page:  (1 of 1)

2 record(s)

## Potential future change:

Market Gateway will place a limitation on the Econ.Max. MW amount that will equal to Maximum Load Reduction

Offer Curve Manager						
Offers						
Offer Updates						
Parameters						
Schedule Selection						
Hourly Updates						
<input type="checkbox"/>	Hour	Commit Status	Econ. Min.	Econ. Max.	Min. Downtime	Notification Time
<input type="checkbox"/>	1	Economic	1	6.5		
<input type="checkbox"/>	2	Economic	1	6.5		
<input type="checkbox"/>	3	Unavailable	0	0		
<input type="checkbox"/>	4	Unavailable	0	0		
<input type="checkbox"/>	5	Unavailable	0	0		