

## Max Load Reduction in DRHUB



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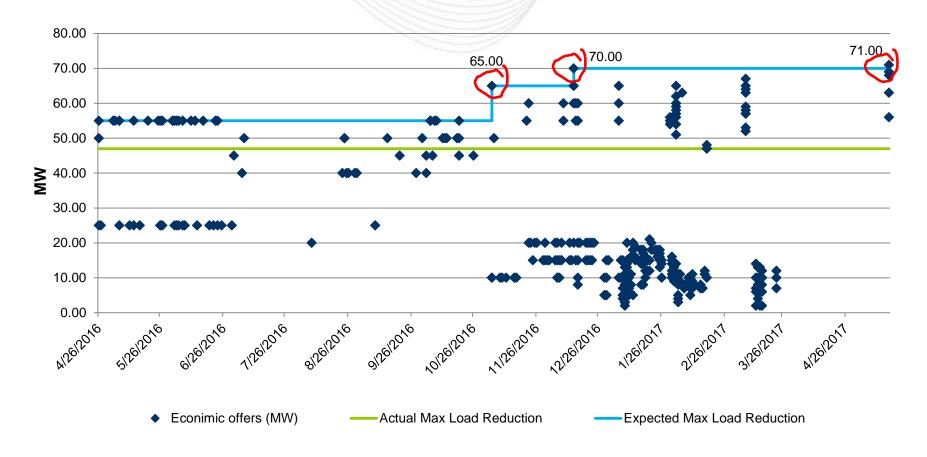
## Focus of this presentation:

- 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

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## Example: Registration offers in Markets Gateway



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# Manual 11: Energy & Ancillary Services Market Operations Section 10: Overview of the Demand Resource Participation

- 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).

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#### 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.

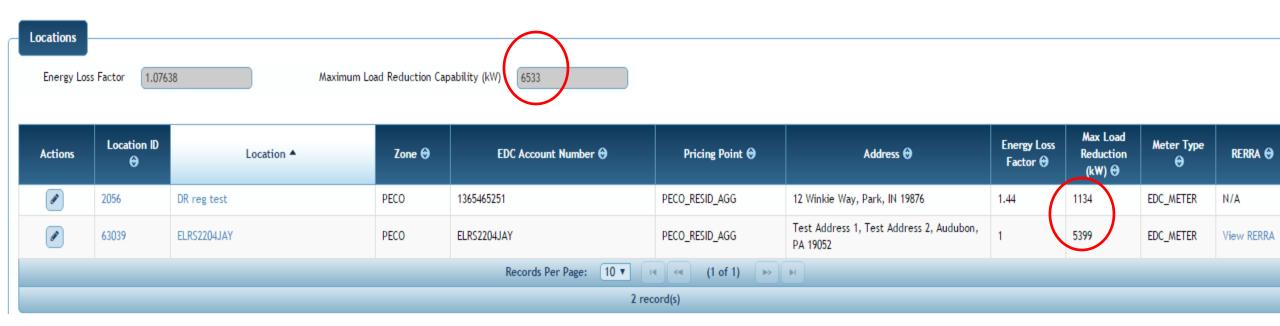
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Location is in	Max Load Reduction for location shall equal to	Should be modified when		
Economic reg only	Highest offer in MG (in case of >1 locations on the registration should be a sum max load reductions for all locations)	The desired offer in MG 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.



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## PJM would like stakeholder feedback

## Potential future change:

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

Offer	Curve Manag	ger Offers Offer Updates	Parameters	Schedule Selection	Hourly Updates			
	Hour	Commit Status	Econ. Min.	E	Econ. Max.		Min. Downtime	Notification Time
	1	Economic		1		6.5		
	2	Economic		1		6.5		
	3	Unavailable		0		0		
	4	Unavailable		0		0		
	5	Unavailable		n		0		