

Validation check on the offered MWs in the Real Time and Day Ahead Energy Markets in Markets Gateway

DRS Meeting
March 27, 2018

- Limit offered MWs for Economic DR registration or Dispatch Group in the Real Time and Day Ahead Energy Markets in Markets Gateway to Max Load Reduction value from corresponding DR Hub registration and Dispatch Group
- Why make this change?
 - Help avoid markets gateway offer typos/errors
 - Ensure accurate DR reporting

Market Gateway change will be effective end of April (when new DR Hub version is releases)

- Max load reduction value represents a reasonable estimate of the location's expected hourly energy load reduction that will be performed during a system emergency when wholesale energy prices are high and the resource participates in the wholesale market.
 - Represents locations energy market “capability”
 - One value is used for both economic and load management registrations
- CSPs provide the load reduction method and the associated load reduction kilowatts capability for each location.
- Load reduction methods indicate the type of electrical equipment that will be controlled to provide the demand response activity and include:
 - Heating, Ventilation and Air Conditioning (HVAC), Lighting, Refrigeration, Manufacturing, Water Heaters, Batteries, Plug Load and Generation.
 - In cases, where multiple onsite generators are behind the meter, CSPs should report aggregate load reduction capabilities for all generation units.

Example: Economic DR Registration - Location section

Sum of location Max Load Reduction is the Mkt Gateway energy offer limit

Locations

Energy Loss Factor: 1.07638 Maximum Load Reduction Capability (kW): 6533

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: 10 (1 of 1) 2 record(s)

CSP should verify and ensure location values are accurate

Update Location Max Load Reduction capability

This location can reduce 1,134 kw when energy price a very high or during system emergency

Load Reduction Method			
Manufacturing (kW)	<input type="text" value="0.000"/>	HVAC (kW)	<input type="text" value="130.000"/>
Refrigeration (kW)	<input type="text" value="0.000"/>	Water Heaters (kW)	<input type="text" value="0.000"/>
		Generator (kW)	<input type="text" value="1,000.000"/>
		Batteries (kW)	<input type="text" value="0.000"/>
		Lighting (kW)	<input type="text" value="4.000"/>
		Plug Load (kW)	<input type="text" value="0.000"/>

It is Important to enter accurate Max load reduction since it will create Markets Gateway energy offer limit.

Market Gateway will place a limit on the Econ. Max. MW amount that will be equal to Maximum Load Reduction on the corresponding registration or Dispatch Group

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		

This resource's Econ.Max is limited by Max load reduction amount of 6.5MW

If CSP enters Econ.Max > Max Load Reduction – they will get a pop-up message with their current Econ.Max allowed limit