



Duct Burner / Peaking Segment Commitment

Modelling Generation Senior task Force
February 14, 2019

- Unit Parameters and Bids Evaluated:
 - Startup + Notification & Min Down Time(s)
 - Economic Limits (Eco Min/Max)
 - Ramp Rates

Hourly Updates			Detail			Energy Ramp Rates		
MW	Up Ramp Rate	Down Ramp Rate						
567.0	0.1	0.1						
555.0	3.0	3.0						
543.0	2.5	2.5						
456.0	10.9	10.9						
345.0	11.1	11.1						

- DA Commitment & DASR Award:

Results		Regulation & Reserve Award		Day-Ahead Scheduling Reserve Award																	
Location	Schedule	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
	Price							543.0 @ 22.64	545.0 @ 23.77	544.0 @ 26.47	543.0 @ 27.81								473.0 @ 27.95	474.0 @ 29.46	475.0 @ 25.85

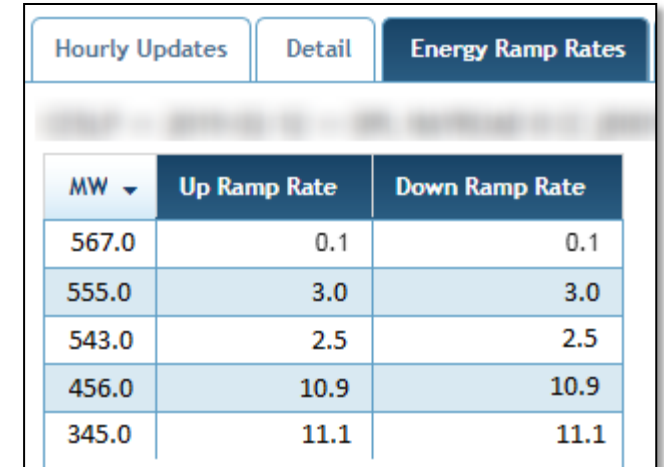
All online energy resources are dispatched per their bid-in economic limits and ramp rates, based on the current unit output MW.

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345.0	11.1	11.1						

No RT commitments occur for any individual configuration. All commitments are unit-based:

Results		Regulation & Reserve Award		Day-Ahead Scheduling Reserve Award																	
Location	Schedule	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
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All dispatchable resources are estimated and assigned reserves in real-time per ramp rates and spin limits (lesser of spin or eco max).



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In Real-Time, ramp rate:

- Capability is based on the current unit output MW
- May be reduced by unit performance

Communication of Synchronized Reserve Quantities to Resource Owners

Markets Gateway

Market Day: Portfolio:

COMP >> Date >> Portfolio 1 Last Queried: Date Total Steam: 1010.9 Total Regulation MW: 40

Location	Schedule	Lambda	Gen. MW	Non-Ramp MW	Reg. MW	Deviation MW	Econ. Min.	Econ. Max.	Capacity Max.	Tier 1 MW	Tier 2 MW	DGPSR	Status
Resource 1	PRICE	28.4	316.0	316.0	0.0	0.0	0.0	615.0	615.0	60.0	0.0	1	Committed in DA and run in RT

Dispatch Lambda page of Markets Gateway

“SCED Training” (See “Generator Performance Model”, Slides 37-44)