

Gas/Electric Market Timeline Alignment

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Problem Statement / Issue Charge

- March 20, 2014 FERC Issues Notice of Proposed Rulemaking (NOPR)
 - RM14-2-000 is the NOPR for the gas industry
 - EL14-24-000 is a 206 docket applicable to PJM
 - Individual 206 dockets for each RTO/ISO
- EL14-24-000 requires PJM to make a compliance filing within 90 days of the date the Final Rule on RM14-2-000 is published in the Federal Register
- April 17, 2015 Final Rule was issued
 - Timely nomination: 1400 EPT
 - Evening Nomination: 1900 EPT

Problem Statement / Issue Charge

- PJM feels that Tariff and Operating Agreement changes must be made to be compliant with the new timelines set forth in the Final Rule on RM14-2-000
 - This filing will be done as part of EL14-24-000
- PJM recommends addressing the issue directly at the MRC at regularly scheduled meetings or special sessions due to the 90 day compliance obligation
 - PJM's compliance filing is due July 23, 2015



206 Obligation EL14-24-000, Paragraph 19

- (1) make a filing that proposes tariff changes to adjust the time at which the
 results of its day-ahead energy market and reliability unit commitment
 process (or equivalent) are posted to a time that is sufficiently in advance of
 the Timely and Evening Nomination Cycles, respectively, to allow gas-fired
 generators to procure natural gas supply and pipeline transportation
 capacity to serve their obligations;
- or (2) show cause why such changes are not necessary.



Activities to Date

April 23: MRC

• First read of problem statement / issue charge

May 6: Special MRC

Education: gas nominations and timing of other ISO/RTOs

Discussion and feedback on PJM's initial draft proposal

May 12-18: MRC Online

• Polling MRC for guidance and preferences

May 28: MRC

• Problem statement/issue charge approved, education continued

• Poll results, discussion/feedback, and next steps discussed

June 10: Special MRC

Education continued

• Discussion and feedback on PJM's revised draft proposal

June 12-18: MRC Online

• Polling for further guidance and preferences

June 25: MRC

Discussion and feedback on PJM's revised draft proposal

Governing documents which outline day-ahead market timing



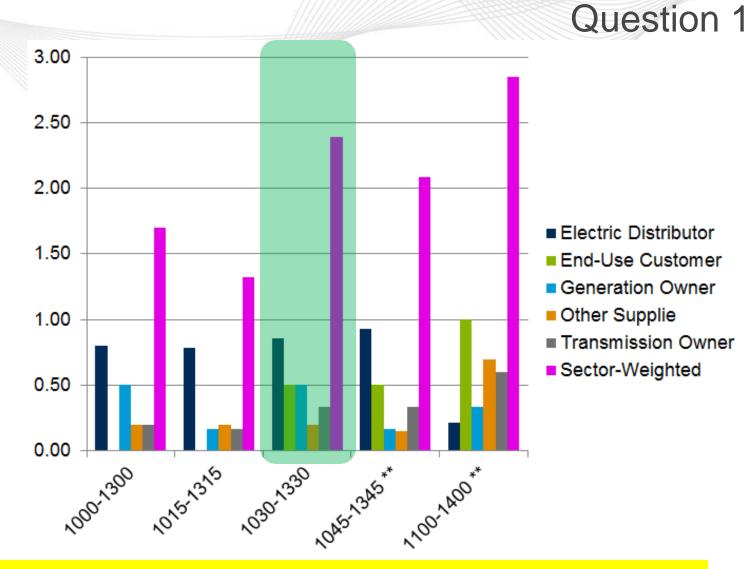
- 51 voting members participated in the poll
- Original proposal of 0930 was dropped from the poll due to lack of support
- No clearing window polled received super-majority, sector-weighted support
 - PJM's proposal received support of 2.39
- PJM's proposal received the highest overall support of 3.45 on the ranking question compared to all options



PJM has committed to a shortened time of 3 hours to clear the Day-

Ahead Energy Market.

Which Day-Ahead Market clearing window works best for your company?



** Day-ahead results must be posted sufficiently in advance of the timely nomination deadline

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Please rank the following day-ahead market clearing windows based on your company's preference.

A rank of "1" is the most preferred and "5" is the least preferred.

Each ranked choice may be selected only once.

Clearing Window	1	2	3	4	5	Weighted Rank (5 = 100% as #1)
1000-1300	10%	2%	31%	2%	55%	2.10
1015-1315	29%	10%	4%	53%	4%	3.08
1030-1330	8%	31%	59%	2%	0%	3.45
1045-1345 **	0%	57%	2%	41%	0%	3.16
1100-1400 **	53%	0%	4%	2%	41%	3.22

^{**} Day-ahead results must be posted sufficiently in advance of the timely nomination deadline



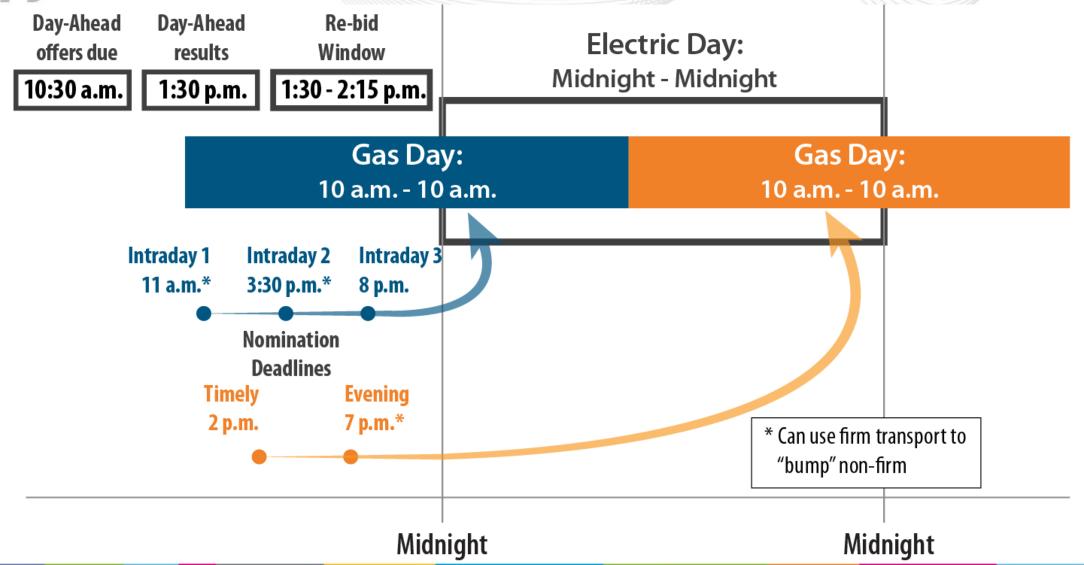
Revisions to Governing Agreements

- The following is a list of sections in the PJM Operating Agreement and Tariff that will be revised to reflect the new day-ahead market timeline
 - (e.g., "12:00 P.M." or "noon" will be revised to reflect the new time)

- § 1.10.8 of Schedule 1 of the OA and Attachment K-Appendix of the Tariff;
- § 1.10.9 of Schedule 1 of the OA and Attachment K-Appendix of the Tariff;
- § 1.10.1A of Schedule 1 of the OA and Attachment K-Appendix of the Tariff;
- § 1.10.6A of Schedule 1 of the OA and Attachment K-Appendix of the Tariff;
- § 3.2.3 (n) of Schedule 1 of the OA and Attachment K-Appendix of the Tariff;
- § 3.3A.5 of Schedule 1 of the OA and Attachment K-Appendix of the Tariff; and
- § III.A of Attachment Q of the Tariff.



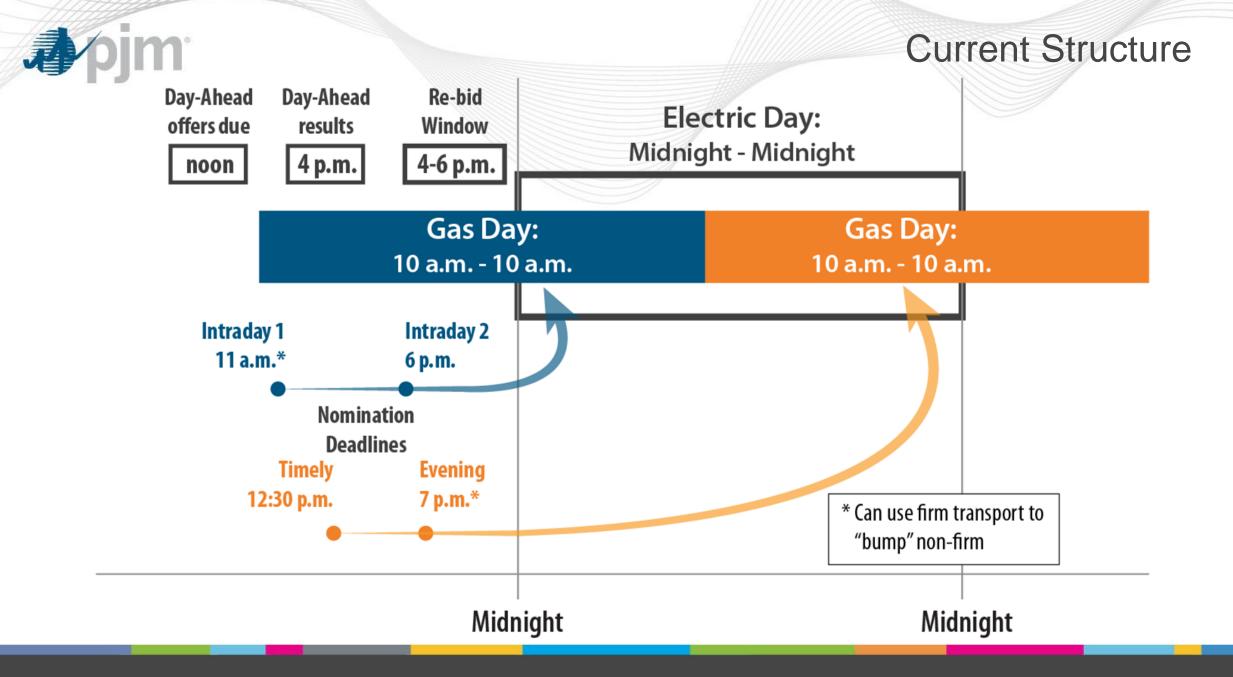
Adjusted Proposed Structure





Appendix

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Gas Nomination Schedules

Nomination Cycles (Eastern Time)

Cycle	Category	Current NAESB Standards	Revised NAESB Standards
Timely	Nomination Deadline	12:30 p.m.	2:00 p.m.
	Schedule Issued	5:30 p.m.	6:00 p.m.
	Start of Gas Flow	10:00 a.m.	
Evening	Nomination Deadline	7:00 p.m.	7:00 p.m.
	Schedule Issued	11:00 p.m.	10:00 p.m.
	Start of Gas Flow	10:00 a.m.	
Intraday 1	Nomination Deadline	11:00 a.m.	11:00 a.m.
	Schedule Issued	3:00 p.m.	2:00 p.m.
	Start of Gas Flow	6:00 p.m.	3:00 p.m.
	IT Bump Rights	IT bump allowed	IT bump allowed
Intraday 2	Nomination Deadline	6:00 p.m.	3:30 p.m.
	Schedule Issued	10:00 p.m.	6:30 p.m.
	Start of Gas Flow	10:00 p.m.	7:00 p.m.
	IT Bump Rights	IT bump NOT allowed	IT bump allowed
Intraday 3	Nomination Deadline		8:00 p.m.
	Confirmations		10:30 p.m.
	Schedule Issued		11:00 p.m.
	Start of Gas Flow		11:00 p.m.
	IT Bump Rights		IT bump NOT allowed



ISO/RTO Day-Ahead Timetable

ISO/RTO	Time For Submission of Bids (EPT)	Time for Publication of Day- Ahead Commitment Bids (EPT)
California Independent System Operator Corporation (CAISO)	1:00 p.m.	4:00 p.m.
ISO New England Inc. (ISO-NE)	10:00 a.m.	1:30 p.m.
PJM Interconnection, LLC (PJM)	12:00 p.m.	4:00 p.m.
Midcontinent Independent System Operator, Inc. (MISO)	11:00 a.m.	3:00 p.m.
New York Independent System Operator, Inc. (NYISO)	5:00 a.m.	11:00 a.m.
Southwest Power Pool, Inc. (SPP)	12:00 p.m.	5:00 p.m.

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