Market Monitor Report

MC Webinar July 20, 2020 **IMM**



ICAP Must Offer Requirement

- At the June 2019 MC Webinar, the Market Monitor presented issues regarding the ICAP Must Offer requirement.
 - http://www.monitoringanalytics.com/reports/Presentation s/2019/IMM MC Webinar Market Monitor Report 20190 624.pdf

ICAP Must Offer Requirement

- OA Section 1.10.1A (d) states that resources must offer in DA/RT Markets the ICAP equivalent of their committed UCAP, accounting for outages.
- Rule:
- Emergency Max + Outage Reduction ≥ Committed
 ICAP
- Failure to meet the ICAP must offer requirement constitutes a tariff violation.

ICAP Must Offer Requirement

- The Market Monitor monitors the ICAP must offer requirement using eDART outages as close to real time as possible.
 - The Market Monitor communicates inconsistencies to market sellers as close to real time as possible.
- The Market Monitor calculates the final ICAP must offer requirement using eGADS.
 - The Market Monitor will initiate a process to communicate inconsistencies to market sellers.

ICAP Must Offer Requirement Review

- The Market Monitor will provide market sellers, using the Secure Communications module of MIRA, all the instances (by hour) in which resources did not meet their ICAP must offer requirement.
- The data will include by hour:
 - RPM ICAP Commitment
 - RT Emergency Max
 - RT Generation
 - eDART/eGADS Outage Reduction

ICAP Must Offer Requirement Review

Goals:

- Identify and fix outage reporting issues. For example, outages reported in eDART and not eGADS or not reported at all.
- Identify cases in which resources were derated in Markets Gateway without being on outage. For example, mistakenly submit the resource as unavailable.
- Identify cases in which resources were derated in Markets Gateway due to ambient conditions.

ICAP Must Offer Requirement Review

- PJM tools should facilitate the submittal of outages that allow market sellers to meet their ICAP must offer requirement. This includes:
 - Submit outages when resources are not offered in the Energy Market and resources was not under forced/maintenance/planned outage.
 - Submit outages when ambient conditions require resources to be derated.
- Market sellers should always submit the actual capability of their resources to the extent possible.
- Deficits should always be reported as outages.

Cost Offer Technical Guide

- The IMM has posted a technical reference to address offers for thermal units.
- Clarifies existing language in Manual 15.
- Presents clear equations.
- Includes detailed, easy to follow examples.
- Goal is to help prevent mistakes in submitting offers for thermal units.

http://www.monitoringanalytics.com/reports/Technical R eferences/references.shtml

- On June 1, 2020, PJM retired the DUKIMP, DUKEXP, CPLEIMP and CPLEEXP interface pricing points. The stated reason was that the South Interfaces are sufficient based on small price differences.*
- NCMPAIMP and NCMPAEXP are similar interface pricing points and should be retired immediately.
 - There are no FTR/ARR positions at the NCMPAIMP or NCMPAEXP interfaces.
 - There is no point to point transmission service at these interfaces.

^{*} https://go.pjm.com/e/678183/ace-pricing-points-update-ashx/3mr49/120424772?h=K_2hRAQFkc0x1QVHaZyryla87AKIK6FRID28eb7m9T4

- Very small price difference between NCMPAIMP and SouthIMP pricing points.*
 - Real time avg price difference compared to SouthIMP:
 - NCMPAIMP vs. SouthIMP: \$0.15
 - 。 CPLEIMP vs. SouthIMP: \$0.19
 - DUKIMP vs. SouthIMP: \$0.20
 - Day ahead avg price difference compared to SouthIMP:
 - NCMPAIMP vs. SouthIMP: \$0.15
 - 。 CPLEIMP vs. SouthIMP: \$0.24
 - NCMPAIMP vs. SouthIMP: \$0.22

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^{*} Data is January 1, 2020, through May 31, 2020, for CPLE and DUKE and January 1, 2020, through June 31, 2020, for NCMPA.

- Very small price difference between NCMPAEXP and SouthEXP pricing points.*
 - Real time avg price difference compared to SouthEXP:
 - NCMPAEXP vs. SouthEXP: \$0.13
 - CPLEEXP vs. SouthEXP: \$0.01
 - DUKEXP vs. SouthEXP: \$0.04
 - Day ahead avg price difference compared to SouthEXP:
 - NCMPAIMP vs. SouthEXP: \$0.16
 - 。 CPLEIMP vs. SouthEXP: \$0.06
 - NCMPAIMP vs. SouthEXP: \$0.07

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^{*} Data is January 1, 2020, through May 31, 2020, for CPLE and DUKE and January 1, 2020, through June 31, 2020, for NCMPA.

- The SouthIMP and SouthEXP pricing points are sufficient for pricing transactions from the South.
- The NCMPAIMP and NCMPAEXP interface pricing points are not needed and should be removed.
- External entities wishing to receive the benefits of the PJM LMP market should join PJM.

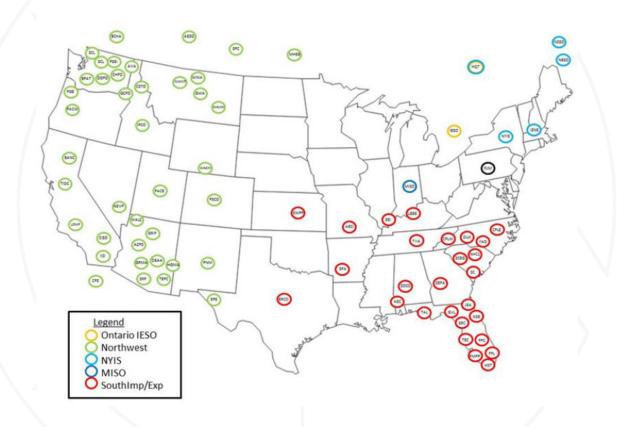
- The Northwest interface pricing was initially used to price transactions between PJM and some of its neighboring balancing authorities to the West.
- After MISO formed, these balancing authorities became a part of MISO, and transactions are now priced at the MISO interface pricing point.
- The only remaining external entities in the Eastern Interconnection that are mapped to the Northwest pricing point are Saskatchewan and Manitoba Hydro.
 - Little to no activity between PJM and these balancing authorities in the past several years.

- The entire Western Interconnection is mapped to the Northwest interface pricing point.
 - Transactions from the Western Interconnection to PJM flow across DC tie lines.
 - These DC ties connect at various points, and do not have the same physical impact on flows with PJM.
 - Transactions will either flow to PJM through MISO or a neighbor to the South, and should receive an appropriate pricing point based on physical flows.
 - Little to no activity between PJM and the Western Interconnection in the past several years.

- The Northwest interface is non contiguous to PJM.
- Saskatchewan and Manitoba Hydro balancing authorities mapping should be changed to MISO.
- Western Interconnection should be mapped to MISO or SOUTHIMP/EXP based on DC Tie location.
- Up-to congestion transactions at the Northwest interface pricing point have resulted in 50.2 percent of all UTC profits in the first six months of 2020.

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- The Northwest interface pricing point should be eliminated immediately.
- The Northwest Interface pricing point should be removed immediately as an eligible bus for UTC transactions.



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