



General Updates

Gautam Punjabi

March 21, 2017



- **3/3/2017**
 - Members unable to access RPM access due to database issue. Alert threshold set to alert sooner.
- **3/13/2017**
 - Data Viewer access issues. Guest access available as workaround. Procedure updated.
- **3/17/2017**
 - 30 minute unexpected outage to Tools and PJM.com. Device replacement planned.
- **3/19/2017**
 - Intermittent access issues and slowness to PJM Tools. Device replacement planned.
- **3/20/2017**
 - Intermittent access issues to PJM Tools (OASIS, MSRS, eCredit, eRPM, eLRS). Related to 3/19/2017 event.

FTR Auction Update for March, 2017

Asanga Perera
Manager, Market Simulation
March 21, 2017

- PJM Tariff requires PJM to post FTR monthly auction results within 5 business days after the close of FTR bid and offer period
 - Unless circumstances beyond PJM's control prevent PJM from meeting this objective
- PJM was unable to post March FTR results within 5 days
 - PJM notified stakeholders
- PJM was able to post the solution on March 1, 2017
 - Although solution was late, paths were awarded for the full periods

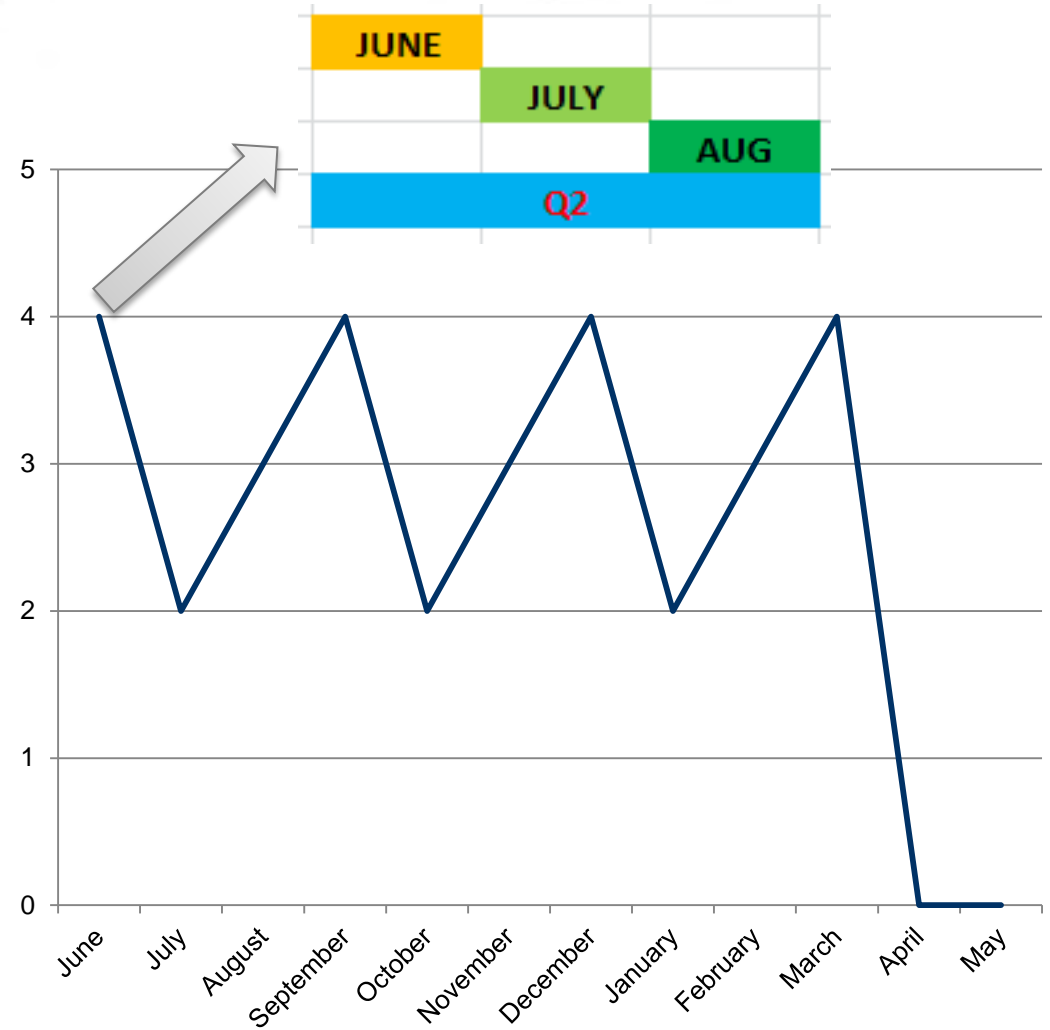
- There have been two late postings in the recent past
 - They were March 2016 and 2017
 - These delays are rare

- PJM found 2 contributing factors impeding PJM's goal to post results generated from an optimized FTR solution

Reason	Impact
Primary - Overlapping Periods	High
Other - Bid Volume, Outages	Medium

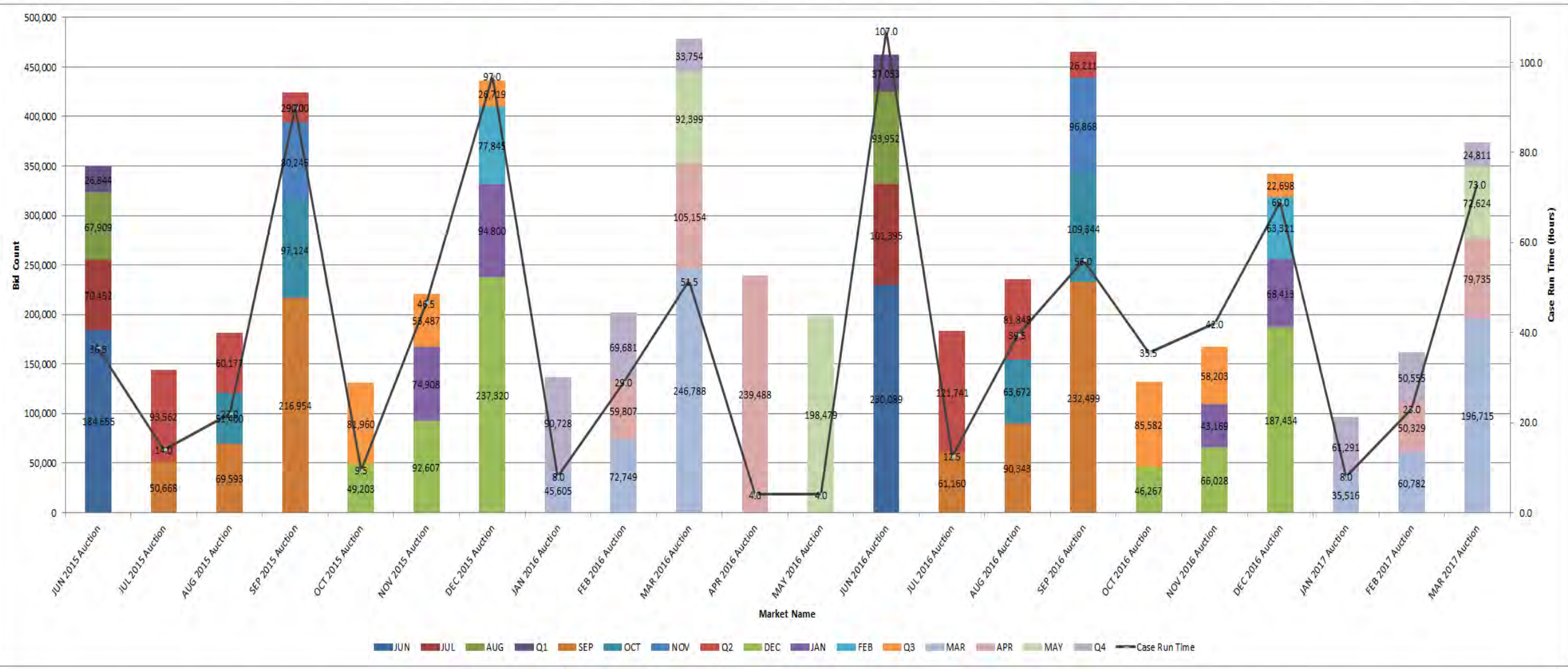
Month	Overlapping Periods	#
June	Jun, Jul, Aug, Q1	4
July	Sep, Q2	2
August	Sep, Oct, Q2	3
September	Sep, Oct, Nov, Q2	4
October	Dec, Q3	2
November	Dec, Jan, Q3	3
December	Dec, Jan, Feb, Q3	4
January	Mar, Q4	2
February	Mar, Apr, Q4	3
March	Mar, Apr, May Q4	4
April	Apr	0
May	May	0

FTR Overlapping Periods





Historical FTR Solution Performance Statistics



- PJM is open to stakeholder feedback
 - This is the second time we encountered this challenge
 - This may impact other processes such as timely approval of residual ARR, as well
- PJM will discuss existing challenges impeding timely FTR result postings at the April MIC
 - Process flow
 - Performance data
 - Options to consider





Networks Update

John Ippolito
Manager, Network Infrastructure
March 21, 2017

Outage Time

- March 19 at 16:12 through March 20 at 03:00

Applications Impacted

- Markets Gateway, eFTR, eRPM, Data Viewer, ExSchedules, OASIS, pjm.com, eDART, and M2M

Issue Overview

Focus Areas

- Firewalls
- Switches
- Load Balancers
- Restoration steps



DMZ Firewall Upgrade

What

- Upgrade member-facing network firewalls at PJM's Valley Forge site

When

- Tentative date - Thursday, March 30

Final date to be communicated Thursday, March 23 via the Technical Notifications email distribution list

- Outage window - 7 hours; starting 18:00 – 01:00
- Date expedited due to recent production issues

Impacts

- Intermittent impacts to Markets Gateway, eDataFeed, eFTR, eRPM, Data Viewer, ExSchedules, PJM.com, eDART, M2M, email

Firewall Upgrade Schedule

March Upgrades

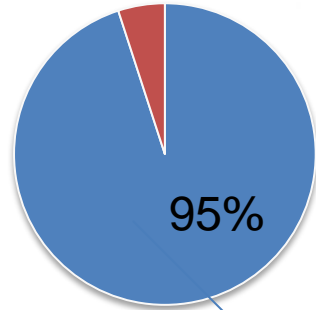
- Valley Forge Internal – Completed
- Milford Member-facing 1 – Completed
- Valley Forge Member-facing 1 – March 30

April Upgrades

- Milford Member-facing 2 – April 6
- Valley Forge Member-facing 2 – April 13
- Milford Internal – April 20

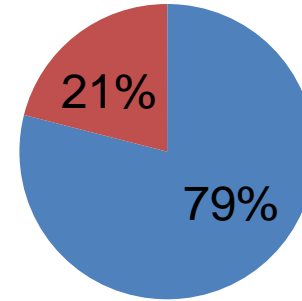
Survey Results

Understand Purpose



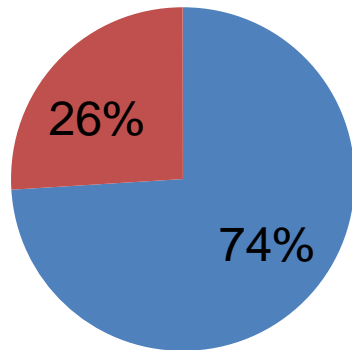
■ Understand ■ Don't Understand

Receive Needed Information



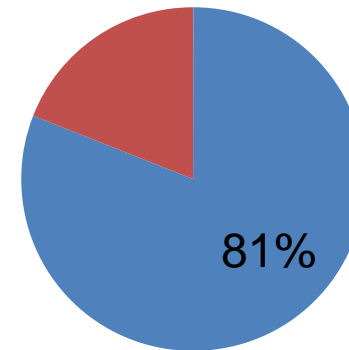
■ Agree ■ Neutral

PJM Acts on Feedback



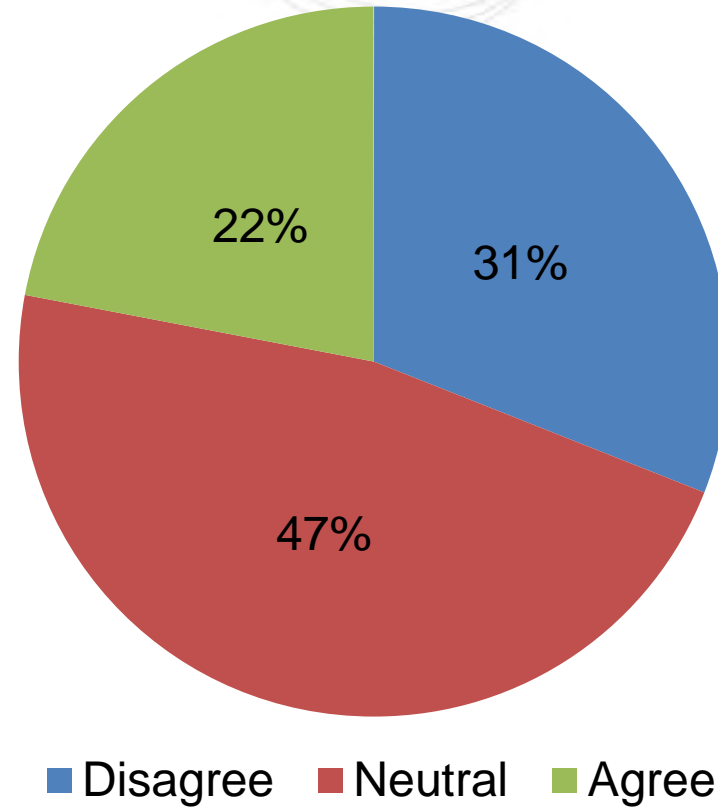
■ Agree ■ Neutral

Overall Satisfaction



■ Agree ■ Neutral

Prefer 2-day Format



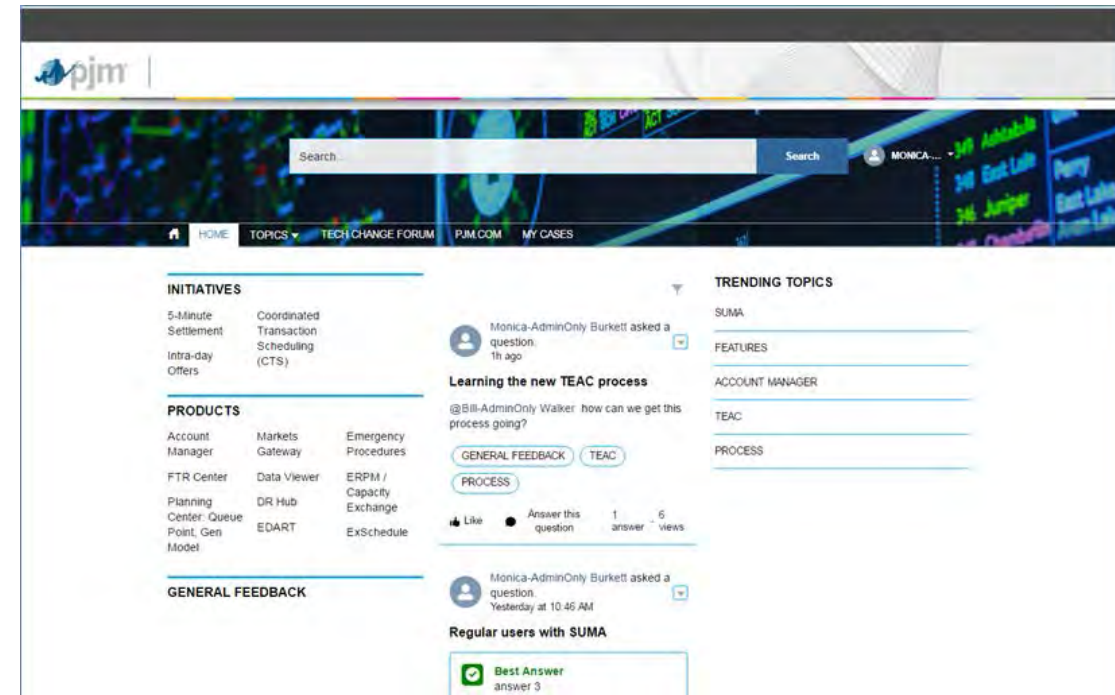
- Consolidate two-day agenda to one day
- Identify better meeting timing. For example:
 - 10:30am start?
 - All in the PM?



Tech Change Forum Community

- **Links to Technical Content**
- **Quick Links to Knowledge Articles**
- **Moderated Discussion Forums**
 - Initiatives – 5-minute Settlement, Intraday Offers, MISO CTS
 - Core Business Areas
 - Markets
 - Operations
 - Planning
 - Technical (APIs, Authentication, etc.)

Coming in April!



Communication Reminder

Risa Holland

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