

# Item III. MISO and PJM Improved Day-Ahead coordination

November 18, 2015 MISO-PJM JCM





#### **Overview**



Provide a progress update on MISO-PJM Day Ahead (DA) Firm Flow Entitlement Exchange (FFE)

#### > Takeaways

- > Systems are in place to perform DA FFE exchange (since 9/30/15)
- > RTOs filed JOA DA FFE language enhancements with FERC
- RTOs received a deficiency notice from FERC with respect to notification of the FFE exchange process
- Upon receiving FERC's approval, RTOs will implement the DA FFE exchange





### **Background**



- MISO and PJM have been coordinating on an initiative to exchange FFEs in DA
  - > This protocol will establish a DA M2M settlement process
- > This initiative will enhance RTOs' DA M2M coordination
  - Minimize Joint Bid Production Cost Overall savings to Market Participants
  - Minimize Real-time M2M payments Improve FTR funding





## **Task Status Update**



Task	Status		
Applications and System Updates	Complete		
End-to-End Testing	Complete		
Process and Procedure Documentation	Complete		
JOA language changes	Complete		
Deficiency Notice reply	To be completed by 11/17/2015		
DA settlement reports	Complete		
Metrics development	In progress		





#### JOA Language Status Update



- ➤ RTOs filed JOA changes on September 3<sup>rd</sup>, with the expectation to go-live on September 30<sup>th</sup>
- > A Protest was subsequently filed on September 13<sup>th</sup>
- ➢ RTOs responded to the Protest conceding a go-live date of October 30<sup>th</sup>
- ➤ FERC issued a deficiency letter on November 2<sup>nd</sup> (60 Days after initial filing) with response due by 11/17/2015







- MISO and PJM are considering the following metrics to measure performance of DA Market-to-Market Exchanges:
  - > Price convergence of MISO / PJM Day Ahead markets
  - Price convergence of Day Ahead / Real Time markets
  - > Flow convergence of Real Time Market Flow with Adjusted FFE





#### **Settlement Report**



- > RTOs have developed a DA M2M Settlement Report
  - ➤ Includes Flowgate, shadow price, FFE exchanged amount, and DA settlement value for each hourly FFE exchanged in the DA market
  - ➤ Published to MISO & PJM's public websites
  - > Timeframe:
    - ➤ Completed October 30, 2015 for MISO
    - November for PJM





#### **Next Steps**



- > PJM and MISO to respond to the deficiency notice by 11/17/2015
- Delay FFE exchange in Day Ahead Markets until FERC approval of proposed language changes
- > Publish DA M2M settlement reports
- > Discuss metrics during future stakeholder meetings
  - ➤ MISO's SMWG, PJM's MIC and JCM











#### MISO/PJM Exchange Process Guidelines

- The flowgate should be currently or expected to be constrained in Realtime (RT) and/or DA.
- 2) The Requesting RTO's RT market flows should be significantly larger than its RT FFEs.
- 3) The RTOs combined bid production cost should decrease.
- 4) The FFE exchange should not negatively affect RTO's FTR revenue adequacies.
- Responding RTO should be capable of exchanging FFEs with ReqRTO based on ReqRTO's projected and historical DA and RT shadow prices.
- 6) ResRTO will provide their DA shadow price, to ReqRTO, within an hour of ResRTO's DA case execution factoring expected DA conditions. As a result, this will impact the DA M2M settlements.





#### **DA Market Coordination Roadmap**



Entitlement Process

- Coordinated study & allocation of rights
- Historic-based

Existing

RTO-to-RTO Transparency

- Robust data exchanges
- Best-practice review & implementation
- Objective Improve PJM & MISO FTR/DA Market alignment

Current Efforts

Economic Analysis Process

- Coordinated study & allocation of rights
- Economic-based
- Systematic use of data exchange and best-practices
- Objective Improve PJM & MISO RT/DA Market alignment

**Future** 





## **DA M2M MISO** settlement report



HOUR_ENDING	FLOWGA	_	CP_RTO		DA_MISO_	W_PRIC		DA_CP_APPROVED_ MW	DA_MISO_CREDI T	DA_CP_CREDI T
				Oak_Grove_Mercer161_flo_Nelson_Electr						
5/27/2015 21:00	3429	PJM	PJM	icJct	50	40	20	20		800
8/27/2015 7:00	514	PJM	PJM	Cordova_Nelson345_flo_H471_Nelson345	O	123	30	30		3690
8/27/2015 8:00	514	PJM	PJM	Cordova_Nelson345_flo_H471_Nelson345	0	123	30	30		3690
8/27/2015 9:00	514	РЈМ	PJM	Cordova_Nelson345_flo_H471_Nelson345	О	123	30	30		3690
8/27/2015 10:00	514	РЈМ	PJM	Cordova_Nelson345_flo_H471_Nelson345	0	123	30	30		3690
8/27/2015 11:00	514	PJM	PJM	Cordova_Nelson345_flo_H471_Nelson345	0	123	30	30		3690
9/3/2015 0:00	3429	MISO	I	Oak_Grove_Mercer161_flo_Nelson_Electr icJct	20	10	-25	-25	500	



