

# **Interface Pricing Updates**

Phil D'Antonio Real-Time Market Operations May 13, 2020 Market Implementation Committee



## **MISO Interface Updates**



**Motivation and Summary** 

- PJM is transitioning the definition of the existing MISO interface pricing point such that its constituent pnodes are modeled at non-injection, non-withdrawal nodes rather than generator buses.
  - No change in station or electrical location
  - Improves maintainability of the interface definition

### **Current MISO Definition**

Station Name	Voltage
16 WAUKE	138 KV
18 WILL	20 KV
3 POWERT	24 KV
BVR CH 6	20 KV
CAYUGA2	345 KV
EBEND	20 KV
MICHIGA2	345 KV
MONROE	26 KV
ROCKPOR2	26 KV
SCHAHFER	345 KV

- Aggregate is composed of 10 pnodes on 10 buses
- 5 PJM footprint generators,
  5 MISO footprint
- All nodes located on generator buses
- Equal weighting given to each in creating aggregate interface LMP



Improvements Identified

- Modeling of pnodes on generator buses requires maintenance
  - Confirm consistent telemetry
  - Update and change with generator retirements
  - Questions of external generator visibility
- Non-Injection/Non-Withdrawal nodes reduce maintenance
  - Seamless when units retire
  - No telemetry requirement
- Alignment with MISO definition of PJM
  - MISO transitioned their PJM Interface Definition to noninjection, non-withdrawal nodes in 2018

### **New MISO Definition**

Station Name	Voltage
16 WAUKE	138 KV
18 WILL	20 KV
3 POWERT	24 KV
BVR CH 6	20 KV
CAYUGA2	345 KV
EBEND	20 KV
MICHIGA2	345 KV
MONROE	26 KV
ROCKPOR2	26 KV
SCHAHFER	345 KV

- Same 10 stations at the same voltage levels
- Nodes will be modeled on new non-injection, non-withdrawal buses at each station
- Equal weights will be maintained



**Pricing Impacts Analysis** 

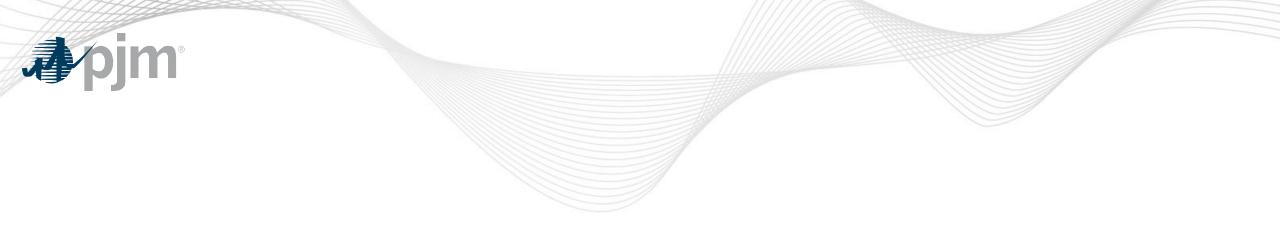
- Ensure prices under new modeling approach do not differ
- Existing and proposed definitions were both monitored internally to confirm no divergence in price
  - 3+ months, over two seasons, testing has confirmed no divergence
- Therefore, no pricing change under this shift



Next Steps

### Goal:

 Update MISO Definition in alignment with the Summer Model Build scheduled for May 27, 2020



## **NIPSCO** Interface Updates



#### **NIPSCO Interface Retirement**

- PJM has reviewed the NIPSCO interface
- It has been determined, based on this review, that the NIPSCO interface is no longer needed
  - No activity on this interface
- As a result, PJM will retire the NIPSCO interface effective June 1, 2020



## Duke / CPL-E Interface Updates



Review of Duke / CPL-E Interfaces

- The PJM / DEP Dynamic Schedule was retired in July 2019
- PJM has been reviewing the Duke / CPL-E interfaces since the retirement
- Analysis has shown that the South Interfaces are sufficient for pricing
  - Very little pricing differences between the South Interfaces and the Duke / CPL-E interfaces



Review of Duke / CPL-E Interfaces

- Based on this review, PJM has determined that the Duke / CPL-E Interfaces can be retired
- The interfaces are schedule for retirement on June 1, 2020



Contact

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