



# Manual 28

## Renewable Dispatch (Solar) and Hybrids Phase II Conforming Changes

Suzanne Coyne

Principal Consultant, Market Settlement Development

Market Implementation Committee

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Action Required	Deadline	Who May Be Affected
Communicate Manual 28 updates to impacted staff	11/21	PJM Members and Market Participants

Below the table, there are three circular icons: a blue flag on the left, a green calendar icon with the number 10 in the middle, and an orange ear icon on the right.

- FERC Docket [ER23-2484](#)
  - Filing included Lost Opportunity Cost (“LOC”) revisions for Hybrids, ESR Model Participants, and Solar Resources
    - Hybrid LOC changes included in Hybrids Phase II initiative and approved by MC in February 2023
    - Solar resource LOC changes included in Renewable Dispatch initiative and approved by MC in May 2023
  - Implementation Date: **December 1, 2024**

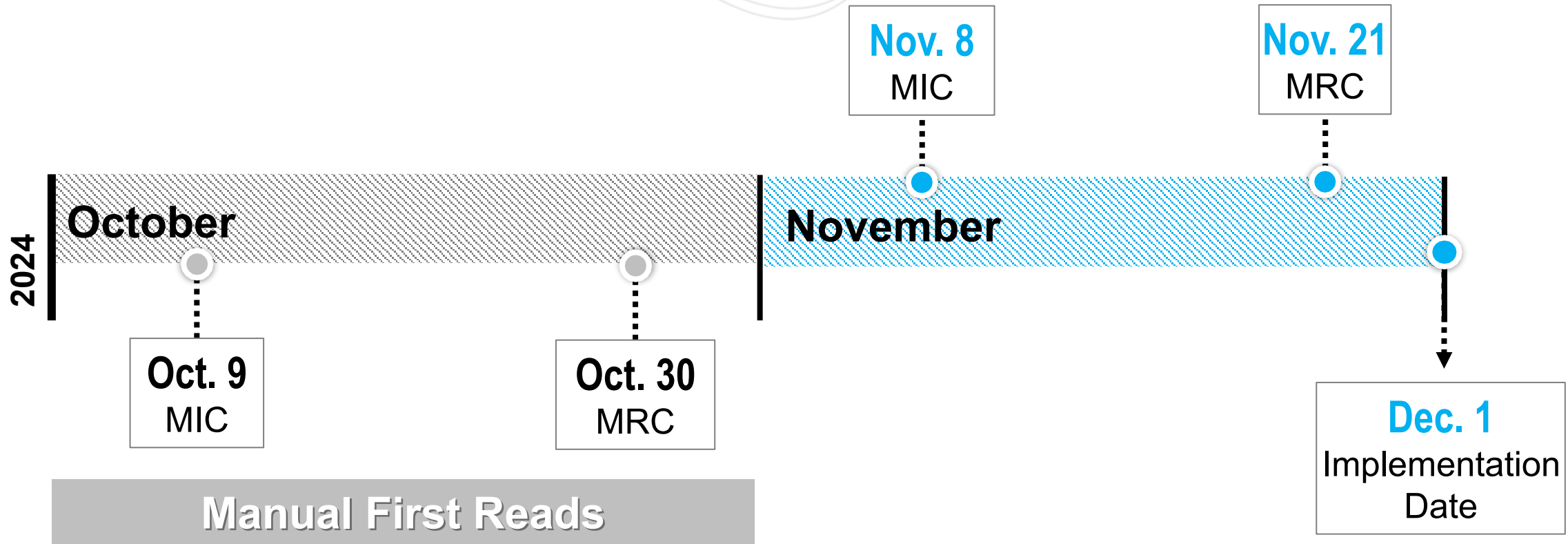
- Section 5.2.6.4

- Updated to include solar, hybrid, and Energy Storage Resource Participant Model resources

- $$\text{LOC Credit} = \frac{(\text{LOC Deviation} * \text{Real-time LMP}) - \text{Total Lost Opportunity Cost Offer}}{12}$$

- LOC Deviation calculation is limited by actual forecasted output
  - Forecasted output is inclusive of state of charge, where applicable
  - Source for state of charge is real-time telemetry measurement data
  - Reference to Manual 14D added for PJM forecasting tool data requirements.

## Second Reads/ Endorsements



Chair:  
Foluso Afelumo  
[Foluso.Afelumo@pjm.com](mailto:Foluso.Afelumo@pjm.com)

Secretary:  
Stefan Starkov  
[Stefan.Starkov@pjm.com](mailto:Stefan.Starkov@pjm.com)

Subject Matter Expert:  
Suzanne Coyne  
[Suzanne.Coyne@pjm.com](mailto:Suzanne.Coyne@pjm.com)



### Member Hotline

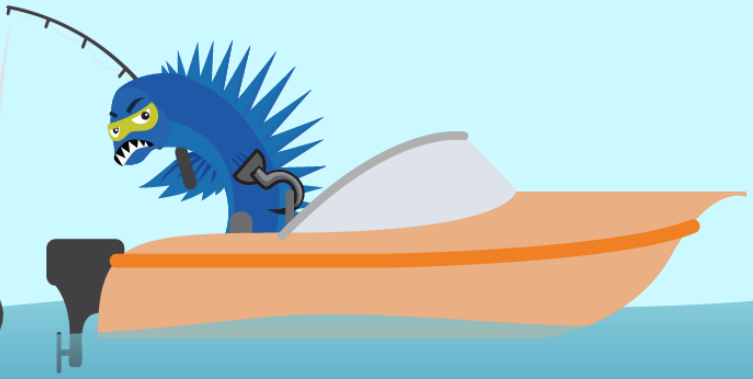
(610) 666-8980

(866) 400-8980

[custsvc@pjm.com](mailto:custsvc@pjm.com)

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