# **Renewable Dispatch**

#### **Issue Source**

Issue charge being brought forth by PJM.

#### **Issue Content**

Review and enhance existing practices regarding the dispatchability of renewable resources.

As renewable resources continue to integrate into PJM, operational issues arise due to inconsistent controllability of resources. A variety of factors can impact unit dispatchability including technological limitations, forecast accuracy, and fuel availability. Unreliable dispatch of renewable resources presents challenges with short-term forward looking analysis.

The following renewable challenges/inefficiencies exist in real-time:

- High ramping capability combined with volatility complicate constraint control, especially with more localized constraints.
- 2. Different levels of performance for existing dispatched renewable resources. No curtailment mechanism for resources like solar.
- 3. Limited usage of renewable forecasts in operational tools due to limited dispatchability.

## **Key Work Activities and Scope**

- 1. Review education on existing reserve renewable practices and expectations. This includes both PJM actions and expected Member actions.
- 2. Propose solutions to enhance overall renewable dispatch process.
- 3. Areas in scope:
  - a. Method in which PJM dispatches renewable resources
  - b. Communication of dispatch mode and instructions
  - c. Expectations of renewable resources: data submissions, technological requirements, and performance
  - d. Lost Opportunity Cost eligibility
- 4. Areas not in scope:
  - a. Existing Market products and calculations
  - b. Existing efforts like ESR modelling, FERC Order 2222, and treatment of Solar/Battery hybrids

### **Expected Deliverables**

- 1. Changes to resource expectations when dispatched in real-time
- 2. Manual language and potential governing document changes to reflect proposal

## **Decision-Making Method**

Tier 1, consensus

### **Stakeholder Group Assignment**

In Operating Committee and/or OC special sessions reporting out to MIC as needed

## **Expected Duration of Work Timeline**

It is estimated the effort could take 6 months. Work will begin as soon as the Issue Charge is approved. Will pursue a CBIR-light approach.

<b>Start Date</b>	Priority Level	Timing	Meeting Frequency
1/13/2022	□High	☐ Immediate	☐ Weekly
	⊠ Medium	⊠ Near Term	⊠ Monthly
	□ Low	☐ Far Term	☐ Quarterly

### Charter

(check one box)

	This document will serve as the Charter for a new group created by its approval.	
$\boxtimes$	This work will be handled in an existing group with its own Charter (and applicable amendments)	

More detail available in M34; Section 6