

## **CHARTER**

### **INTERMITTENT RESOURCES SUBCOMMITTEE**

#### **MISSION**

The Intermittent Resources Subcommittee (IRS) is an ongoing subcommittee established by the Market Implementation Committee (MIC) at its 2/11/2015 meeting. The purpose of the IRS is to provide a stakeholder forum to investigate and resolve Intermittent Resource specific issues and procedures in accordance with PJM stakeholder process protocols. Intermittent resources are characterized by 1) a dependence on natural factors beyond the control of the resource operator for their energy production and 2) having little or no fuel or energy storage capability. Intermittent resources include, but are not limited to, wind and solar facilities.

#### **RESPONSIBILITIES**

The specific responsibilities of the IRS are to:

1. Provide a stakeholder forum through which PJM can communicate updates, disseminate information, and discuss topics specific to Intermittent Resource (IR) owners and operators.
2. Recommend improvements to PJM systems, tools, and procedures that ensure effective IR operations, as well as participation in PJM energy, capacity, and ancillary service markets.
3. Investigate and resolve IR-related issues affecting PJM and its member companies as they arise in addition to IR-related assignments approved by the PJM Market Implementation Committee (MIC).
4. Review ongoing participation of IR resources in the energy, capacity, and ancillary services markets.
5. Monitor the status of other potential issues related to intermittent resources, and raise these to the MIC at the appropriate time:
  - a. Pairing intermittent resources with more controllable resources, and how these are to be integrated into the market through commitment and scheduling in the day-ahead and real-time energy markets.
  - b. Impact on intermittent resources of other PJM initiatives, task forces, and committees such as Demand Response Subcommittee.
  - c. Load forecasting issues (recognizing jurisdictional concerns) with respect to behind the meter intermittent resources such as solar thermal and solar photovoltaic.
  - d. PJM Regional Transmission Expansion Planning processes and timelines that present potential barriers to the development of renewable energy resources required by some PJM states.
  - e. Assessing and, to the extent reasonable, developing proposals addressing any operational and reliability impacts, positive or negative, in the event of high market penetration. Issues reviewed in conjunction with this include, but are not limited to: Load following and ramping; surplus off-peak generation; operating reserve requirements; restoration operation; and forecasting and unit commitment.

#### **ADMINISTRATIVE**

1. This subcommittee reports to the Market Implementation Committee. However, some of the issues to be addressed impact planning and operations and therefore will need to be vetted in other forums.
2. All PJM stakeholders may appoint representatives to the subcommittee.
3. PJM will designate a subcommittee chair person.
4. The chair and secretary will be responsible for preparing and issuing all reports, scheduling periodic meetings and conference calls as necessary and recording and preparing the minutes of each meeting. The subcommittee is expected to conduct business primarily via conference calls held on a quarterly basis.
5. Voting will be conducted on the basis of one vote per Member Company represented at meetings (either in person or via conference call). Opinions from non-PJM members on voting items will be recorded in the notes as requested.
6. Each member should have the authority to commit resources in order to support the requirements of the Intermittent Resources Subcommittee (IRS).