MISO-PJM IPSAC

Agenda

- Coordinated System Plan Study
  - TMEP Study Status
- IPSAC Work Schedule

Coordinated System Plan Study

Annual Issues Review Process (JOA §9.3.7.2)

- In the 4th quarter, RTOs exchange:
  - Regional issues and newly approved projects near the seam
  - New regional issues
  - Interconnection requests under coordination
  - M2M historical congestion
- RTOs jointly reviewed above in January
- Receive Third Party issues in first quarter (required 30 days before Issues Review IPSAC)
- Issues Review IPSAC –
  - Held in the first quarter of each year
  - Must provide 60 calendar day notice of scheduled date
  - Stakeholder feedback due 30 days prior to IPSAC
- Within 45 calendar days after the Issues Review IPSAC the JRPC shall determine the need for a Coordinated System Plan study
- JRPC notifies the IPSAC of its decision within 5 business days
- IPSAC Meeting required 30 days after JRPC determination

Annual Issues Review Key Dates

- Stakeholder Input Due: January 18, 2022
- Issues Review IPSAC: February 17, 2022
- JRPC notifies IPSAC of CSP study decision: March 30, 2022 (email to stakeholders)
- April 25, 2022 IPSAC meeting - Presented CSP study scope
  - 23 Flowgates: potential TMEP Study candidates

- ~$519 million congestion on M2M flowgates in 2020 & 2021
  - Preliminary data presented at February 17, 2022 IPSAC meeting

- ~$191 million of congestion was determined to be non-persistent or mitigated by future upgrades

- **TMEP study in 2022 – covers the remaining $328 million of congestion**
  - 23 TMEP study candidates under consideration

TMEP Study Scope

- Historically binding (2020 + 2021) Market-to-Market flowgates
  - Focus on constraints with >$1million congestion
- Focused on 23 TMEP study candidates posted at the April 25, 2022 IPSAC meeting.
- Study steps:
  - Look for outages when the congestion occurred (if so, determine congestion benefit discount).
  - Determine whether the congestion is expected to persist.
  - Identify planned upgrades and their impact on alleviating the congestion.
  - Work with asset owners to determine if any TMEP type solutions exist.
  - Evaluate the effectiveness of TMEP solutions.
  - Ensure TMEP solutions meet all JOA criteria.

TMEP Study Assumptions

- Assumptions:
  - TMEP project will mitigate >$1 million congestion over 2-year period
  - Historical congestion occurred unrelated to outages (if so, determine congestion benefit discount)
  - Congestion is expected to persist
  - Planned upgrades in the area have no impact on alleviating the congestion
  - Asset owners do not have TMEP type solutions planned

TMEP Criteria

- Limited to historically binding M2M flowgates
- Projects must be in service by 3rd summer peak
- Projects over $20 million not eligible
- Benefits based on relieving average of past 2 years of historical congestion (Day Ahead + Balancing)
- Four years worth of benefits must completely cover project's installed capital cost
- Discount/inflation rate not necessary as all projects are near term
- Interregional cost allocation based on congestion relief in each RTO
  - Adjusted by M2M payments

TMEP Screening Results

- Candidates Eliminated – 19 (see posted list)
  - Planned upgrades in the area may have an impact on alleviating the congestion
  - Flowgate identified in a Reliability window (Multi-driver)
  - Congestion is related to outages
  - Congestion is not expected to persist

- Candidates Remain Under Consideration – 4

TMEP Candidates under Consideration

Monitored Facility	Flowgate Description	Notes
QuadCities-RockCreek 345 kV	QuadCities-RockCreek 345 kV l/o QuadCities-Sub91 345/161 kV Sub91 XF	Flowgate still under review for outage causes and potential fixes. Potential project candidate to upgrade ComEd terminal equipment (wave trap).
Mohomet - ChampTP 138 kV	Mohomet - ChampTP 138 kV l/o Clinton - Oreana - GooseCrk 345 kV	Congestion appears persistent; evaluating conductor and switch replacement as a potential fix.
Chicago-Praxair 13831	Chicago-Praxair 13831 l/o Wilton CenterDumont 765	Flowgate still under review for outage causes and potential fixes.
Powerton - Towerline 138 kV	Powerton - Towerline 138 kV l/o Fargo - Sandburg 345 kV	Limited by ComEd terminal equipment (wave trap); Low cost upgrade(s) available. Outage causes still under review.

IPSAC Work Schedule

TMEP Study Timeline

- Target Timeline
  - July - complete review of historical congestion
    - Identify outage impacts
    - Identify planned upgrades
  - August – Work with facility owners to identify limiting equipment and potential upgrades
  - September – Complete evaluation of potential upgrades
  - October – Joint review of results and JRPC recommendation to Boards
- Next IPSAC meeting is TBD, tentatively scheduled for August 2022
  - Additional IPSAC meetings will be scheduled as needed depending on necessity of study

Open Discussion

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