Inter-regional Update

EIPC

- 2025 summer and winter scenario build – on schedule
  - June preliminary builds - complete
  - July-August validation and final case posting - complete
  - October transfer analysis – in progress
  - December presentation & stakeholder input
- TC & EC recommendations
  - construct validated production cost simulation model for EI transmission studies. Scoping work in progress
  - NERC MOD 32 activity – continue to monitor

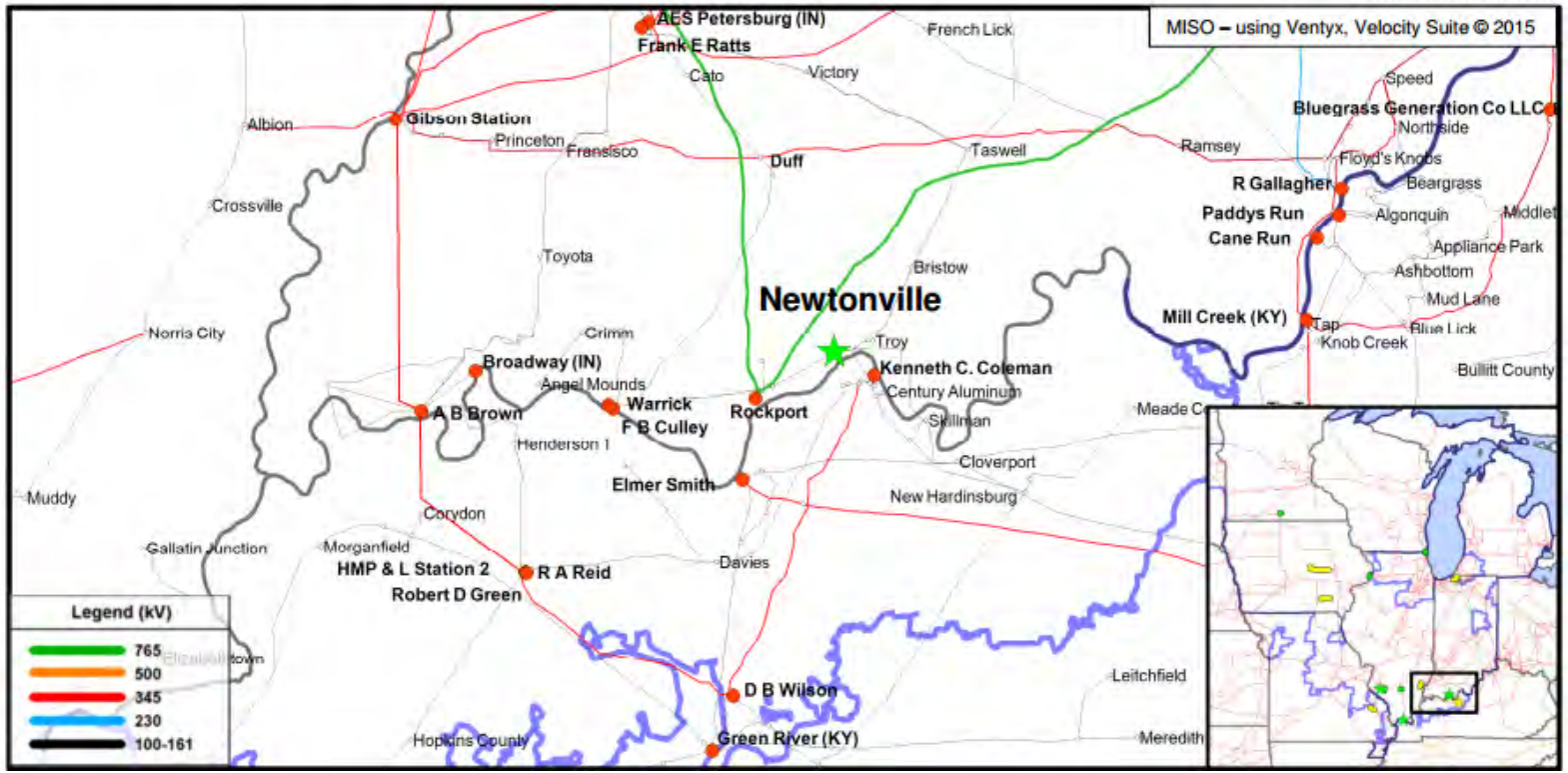
Interregional Update

- NCTPC
  - Preparation for 2016/17 operating year – develop coordinated operating plan - September 30
- PJM/MISO JOA
  - Quick Hit upgrades
    - Beaver Channel – Sub 49 SCADA upgrade complete – expected to address $7M historical congestion – continue to monitor
    - Michigan City – Laporte – historical congestion $3M, 2015 congestion $7.3M
      - RTEP Bosserman substation changes local 138 kV flow patterns ($3M PJM baseline) remedied local voltage issues and improved LaPorte Reliability
      - Michigan City – LaPorte now is Michigan City – Bosserman – line congestion lower but remains binding
      - Michigan City – Trail Creek 138 kV increased congestion. Similar limit to Bosserman line
    - Tracking RTEP and MTEP upgrades addressing $300M congestion

Interregional Update

- PJM/MISO JOA
  - IPSAC September 28 – focus Metrics & Process
    - Commitment to eliminate $20M JOA threshold
    - MISO commitment to engage regional threshold issue
    - Outline new JOA implementation for next 2 year cycle
    - Michigan interface targeted ad hoc study update
  - NIPSCO proceeding comments are complete
  - MISO MEP Coordination - update
    - Duff – Coleman: PJM evaluating options to MISO proposed MEP
    - MISO board recommendation in December
    - Alternatives involving Rockport have been suggested – potential PJM reliability operational performance benefits

Southern IN Focus Area



Rockport – Coleman 345kV Option

- MISO focus MEP under study early 2015
  - MISO evaluated Duff – Coleman 345 kV $67.2M
    - Extensive work and analysis in MTEP 2014 and 2015
    - Newtonville-Coleman 161kV congestion in Southern Indiana
    - Duff-Coleman B/C = 15.9
    - MISO evaluated single circuit Rockport-Coleman had higher benefits but higher costs for B/C=14.4
    - Rockport – Coleman 345 kV $76.3M (1ckt, 1xf)

PJM Engagement

- PJM – Rockport long standing operational complexity
  - SPS long part of Rockport operation
  - 4400 MW event in 2007 & subsequent NERC review
  - 2009 implemented additional SPS controls to mitigate 2007 event
  - Surrounding area flows and generation increase faster than transmission
  - PJM only alternatives are long HV lines
  - Due to electrical topology Interregional solutions are more cost effective
- Initial PJM review suggests MISO solutions involving Rockport may also address the operational performance issues at Rockport in addition to addressing MISO's regional need

Next Steps

- Complete evaluation of Rockport alternatives
  - Complete “No Harm” analysis
  - Finalize validation of SPS removal
- Cost sharing between PJM and MISO - TBD
- MISO Schedule
  - July 29 PAC – PJM option discussed with PJM support
  - August 19 PAC – PJM initial results
  - September – November MISO reviews (MISO PAC and SPC)
  - December 10 MISO BOD meet

Rockport / Duff-Coleman PJM Study Update

- Rockport-Coleman option
  - Reduces Rockport SPS to voltage guide
  - No harm shown from PJM studies
- Rockport-Coleman + Duff Coleman option
  - Eliminates SPS and No PJM harm
- Rockport-Duff-Coleman options under evaluation