



# Operations Assessment Task Force 2020-21 Winter Study

Todd Bickel  
Engineer, Transmission Operations  
Operating Committee  
November 6, 2020

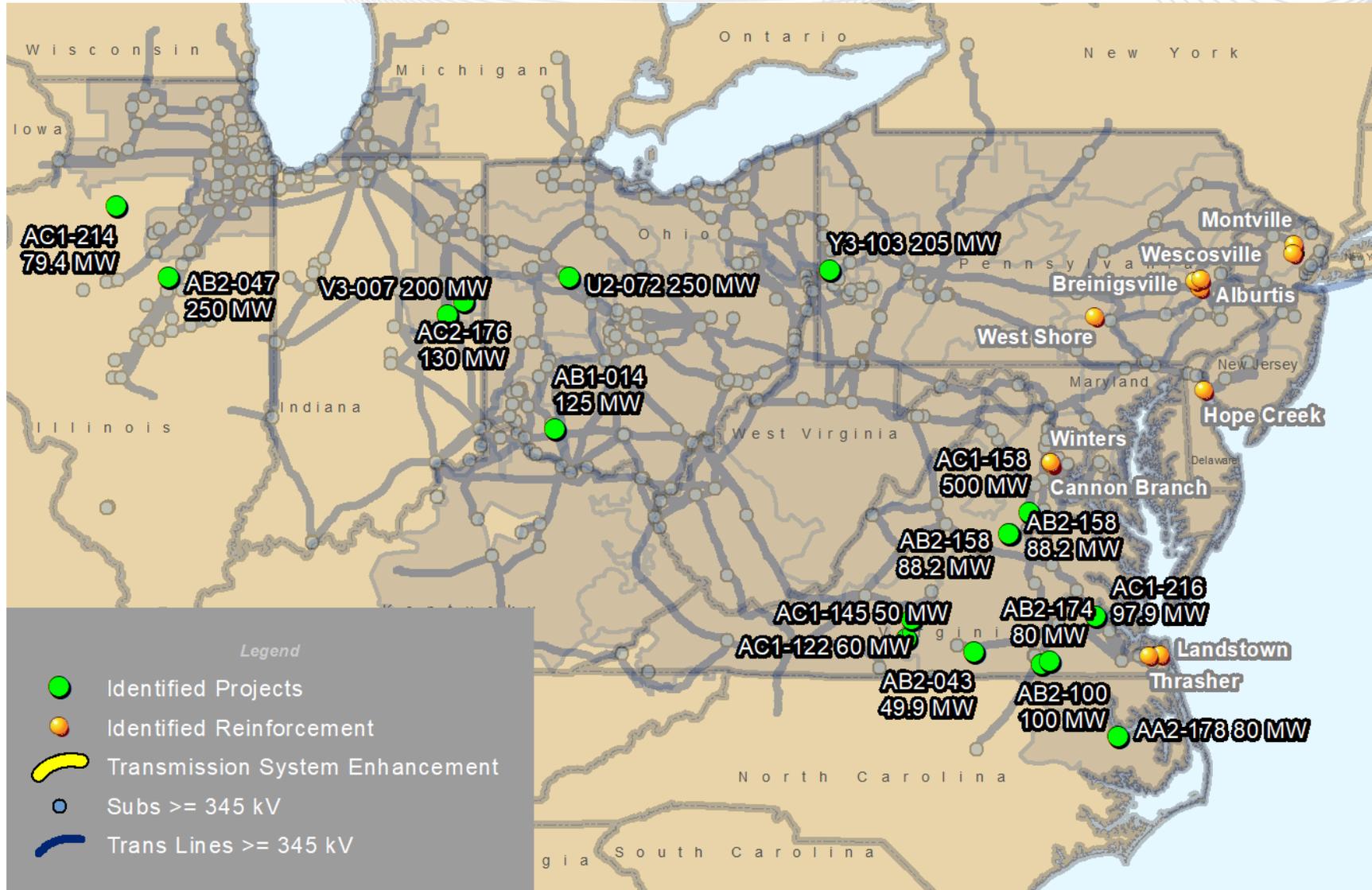
- Case Parameters
- Significant Facility Changes
- 50/50 Non-diversified peak load study results
- Sensitivity Study Results

<b>50/50 Non-diversified Peak Load Base Case</b>	
LAS Load Forecast	136,449 MW
Preliminary RTO Net Interchange	4,000 MW** (Exporting)
PJM RTO Installed Capacity	186,294 MW (preliminary)
Discrete Generator Outages	15,942 MW

\*\* 4,000 MW of net interchange is modeled in the OATF base case and accounts for historical and forecasted Pseudo Tie data.

## PEAK LOAD ANALYSIS

- No reliability issues identified.



- No reliability issues identified for base case and N-1 analysis.
- Re-dispatch and switching required to control local thermal or voltage violations in some areas.
- All networked transmission voltage violations were controlled by capacitors. All other voltage violations were caused by radial load.

Sensitivity Studies	Impact
External contingencies that could impact PJM reliability	No reliability concerns
N-1-1 Relay trip conditions	No cascading outage concerns identified <ul style="list-style-type: none"> <li>All networked transmission overloads were controlled pre-contingency</li> </ul>
Max-Cred Contingency Analysis	No reliability concerns
Transfer Interface Analysis	No reliability concerns
BGE/PEPCO Import Capability	No reliability concerns
90/10 Load Forecast study (141,368 MW)	No uncontrollable or unexpected issues observed at the elevated load levels.
Gas Pipeline Disruption Study	No reliability concerns

Interface	Winter 2020-21 Limit (MW)	Typical Back-off (MW)
Eastern	7327	300
Central	3067	200
Western	5628	200
Bed-Blackoak	1538	50
AP South	3830	100
AEP-DOM	5546	100
Cleveland	3712	200
CE-EAST	3231	200
5004/5005	3275	50

- **Loss of each Local Distribution Company (LDC)**
  - No issues observed.
- **EMS Gas Contingencies**
  - Analysis based on potentially more credible segment and compressor station contingencies with definitions in PJM EMS.
  - No issues observed.

Presenter:  
Todd Bickel, [todd.bickel@pjm.com](mailto:todd.bickel@pjm.com)

## OATF 2020-21 Winter Study



### Member Hotline

(610) 666 – 8980

(866) 400 – 8980

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