# Operations Assessment Task Force
# 2020 Summer Study

PJM Operating Committee

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# Overview

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

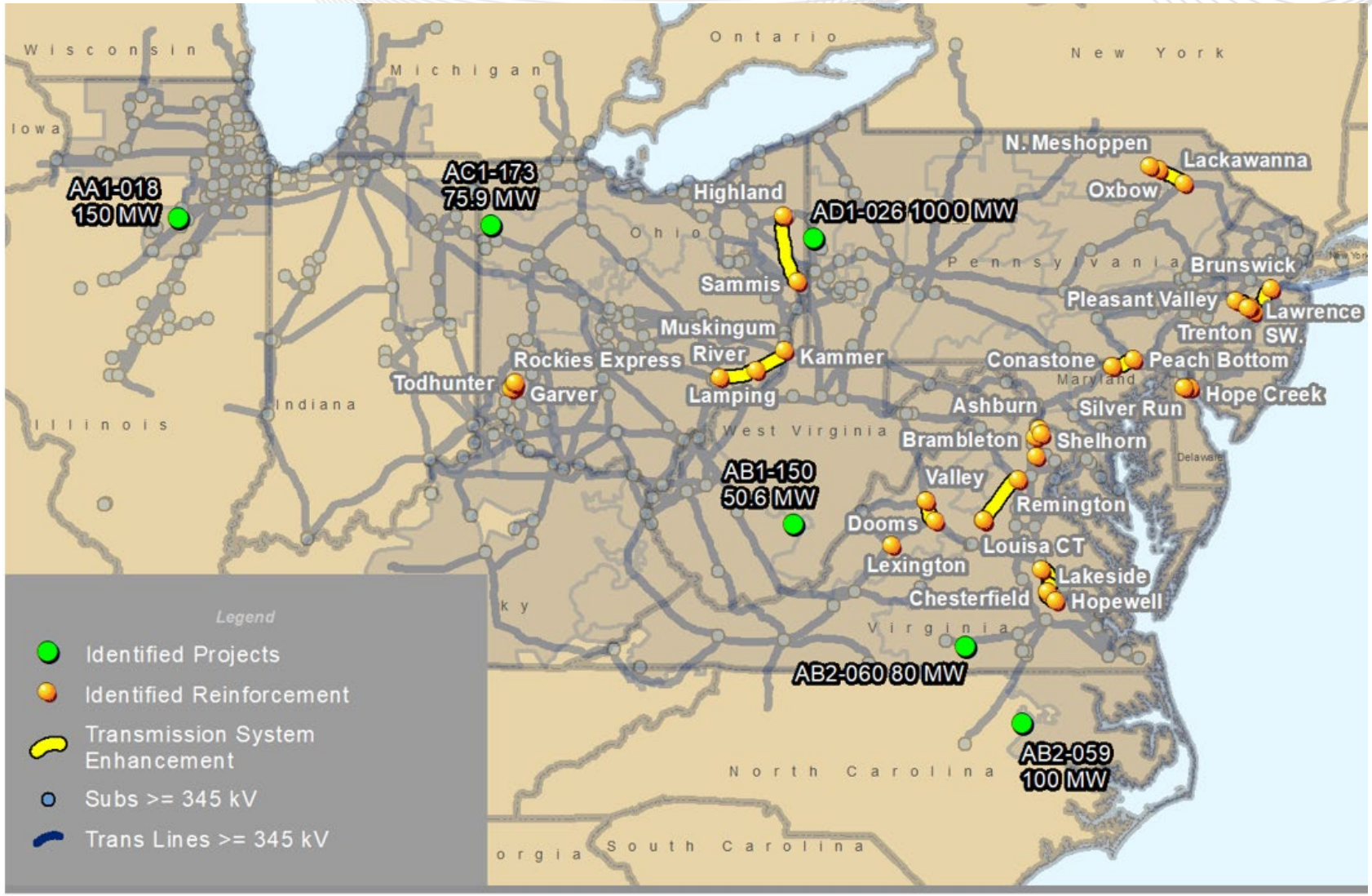
| 50/50 Non-diversified Peak Load Base Case | |
|---|---|
| LAS Load Forecast | 153,463 MW |
| Preliminary RTO Net Interchange | 2,200 MW** (Exporting) |
| PJM RTO Installed Capacity | 187,343 MW (preliminary) |
| Discrete Generator Outages | 12,496 MW |

** 2,200 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.

# Topology Changes



# 50/50 Peak Load Study Results

- 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.

# 2020 Summer OATF Study

| Sensitivity Studies | Impact |
|---|---|
| External contingencies that could impact PJM reliability | No reliability concerns |
| N-1-1 Relay trip conditions | No cascading outage concerns identified<br>• All networked transmission overloads were controlled pre-contingency |
| 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 (157,861 MW) | No uncontrollable or unexpected issues observed at the elevated load levels. |

# Reactive Interface Transfer Analysis

| Interface | Summer 2020 Limit (MW) | Back-off (MW) |
|---|---|---|
| Eastern | 8576 | 300 |
| Central | 2217 | 200 |
| Western | 5264 | 200 |
| Bed-Blackoak | 1610 | 50 |
| AP South | 4016 | 100 |
| AEP-DOM | 4778 | 100 |
| Cleveland | 3613 | 200 |
| CE-EAST | 2822 | 200 |
| 5004/5005 | 2917 | 50 |