

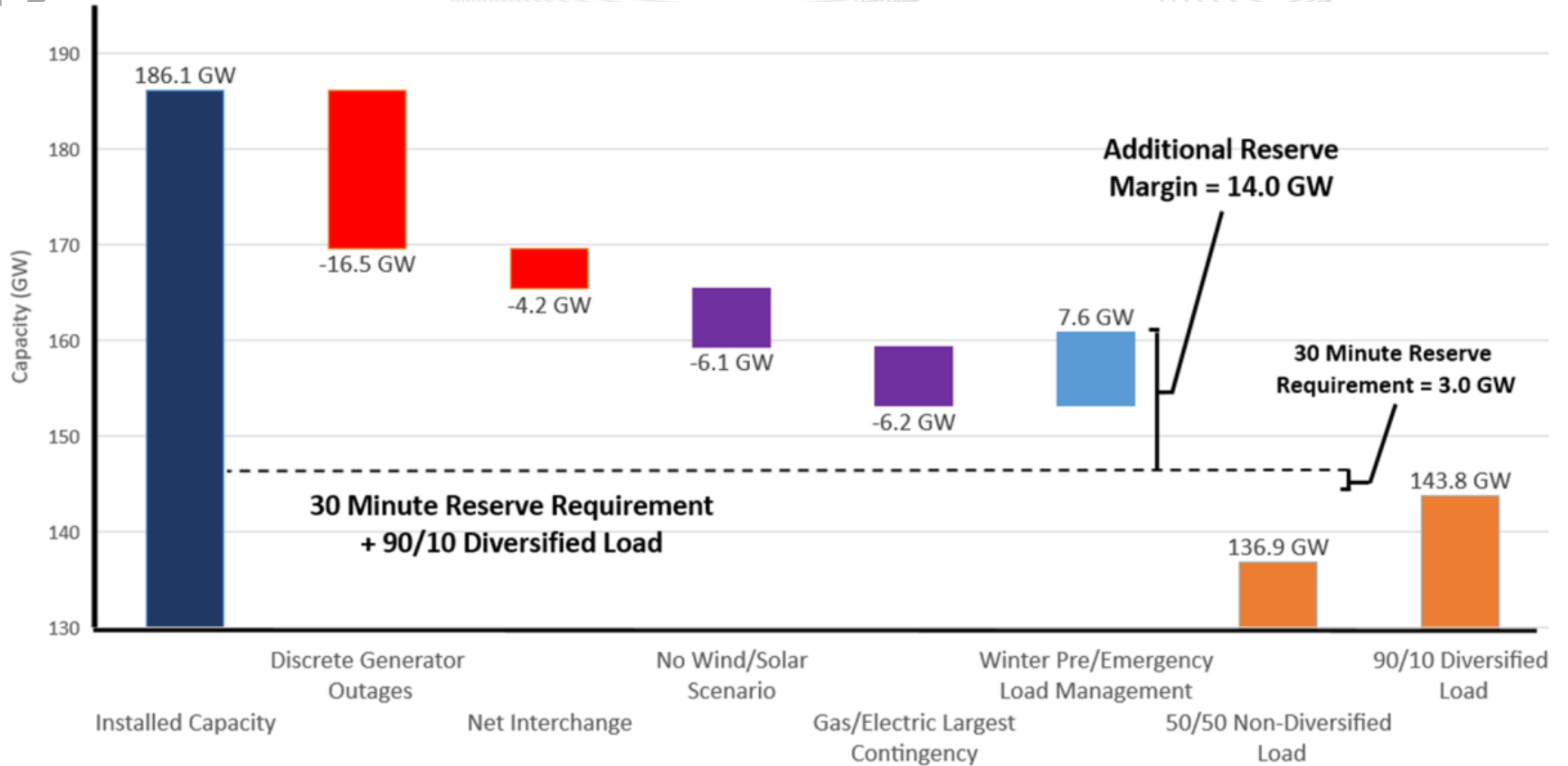


Operations Assessment Task Force 2022-23 Winter Study

Todd Bickel
Operating Committee
November 3, 2022



Winter 2022-23 Preliminary Capacity Projections



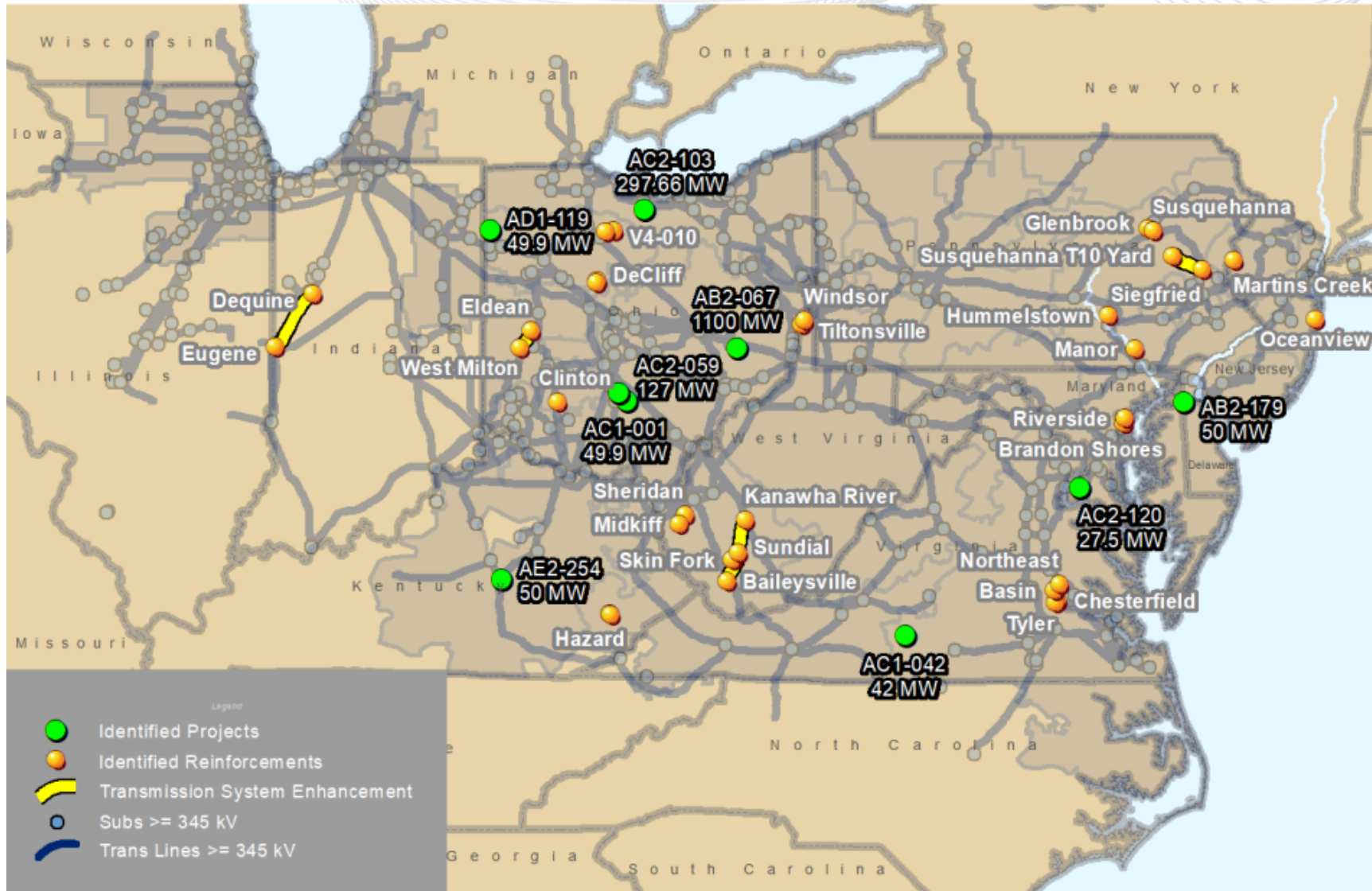
50/50 Non-diversified Peak Load Base Case

| | |
|---------------------------------|--------------------------|
| LAS Load Forecast | 136,867 MW |
| Preliminary RTO Net Interchange | 3,574 MW** (Exporting) |
| PJM RTO Installed Capacity | 186,124 MW (preliminary) |
| Discrete Generator Outages | 16,510 MW |

**OATF Case Interchange (-3,574 MW) = Forecast Net Interchange(-4,186 MW) + Pseudo-Tie Adjustment (612 MW)

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 shunt and tap adjustments

| Sensitivity Studies | Impact |
|--|-------------------------|
| External contingencies that could impact PJM reliability | No reliability concerns |
| N-1-1 Relay trip conditions | No reliability concerns |
| 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 (143,782 MW diversified peak load forecast) | No reliability concerns |
| Solar and Wind Generation Sensitivity Study | No reliability concerns |
| Gas Pipeline Disruption Study | No reliability concerns |



Reactive Interface Transfer Analysis Projections

| Interface | Projected Winter 2022-23 Limit (MW) | Typical Back-off (MW) |
|--------------|-------------------------------------|-----------------------|
| Eastern | 6396 | 300 |
| Central | 3547 | 200 |
| Western | 5842 | 200 |
| Bed-Blackoak | 1995 | 50 |
| AP South | 5455 | 100 |
| AEP-DOM | 4158 | 100 |
| Cleveland | 3691 | 200 |
| CE-EAST | 1549 | 200 |
| 5004/5005 | 3488 | 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.

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OATF 2022-23 Winter Study



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