



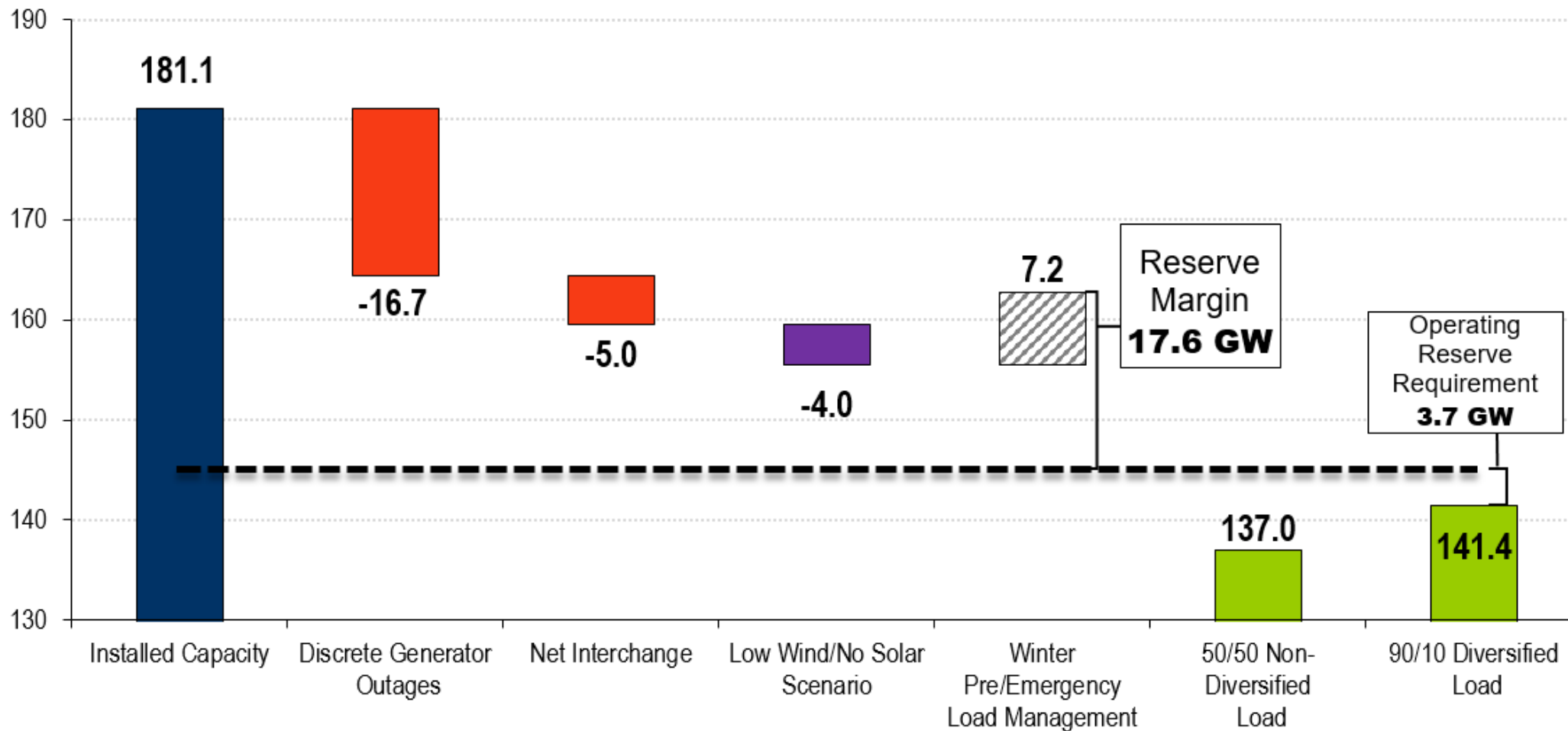
# Operations Assessment Task Force 2023-24 Winter Study

Operating Committee  
Thinzar Aung  
November 2, 2023

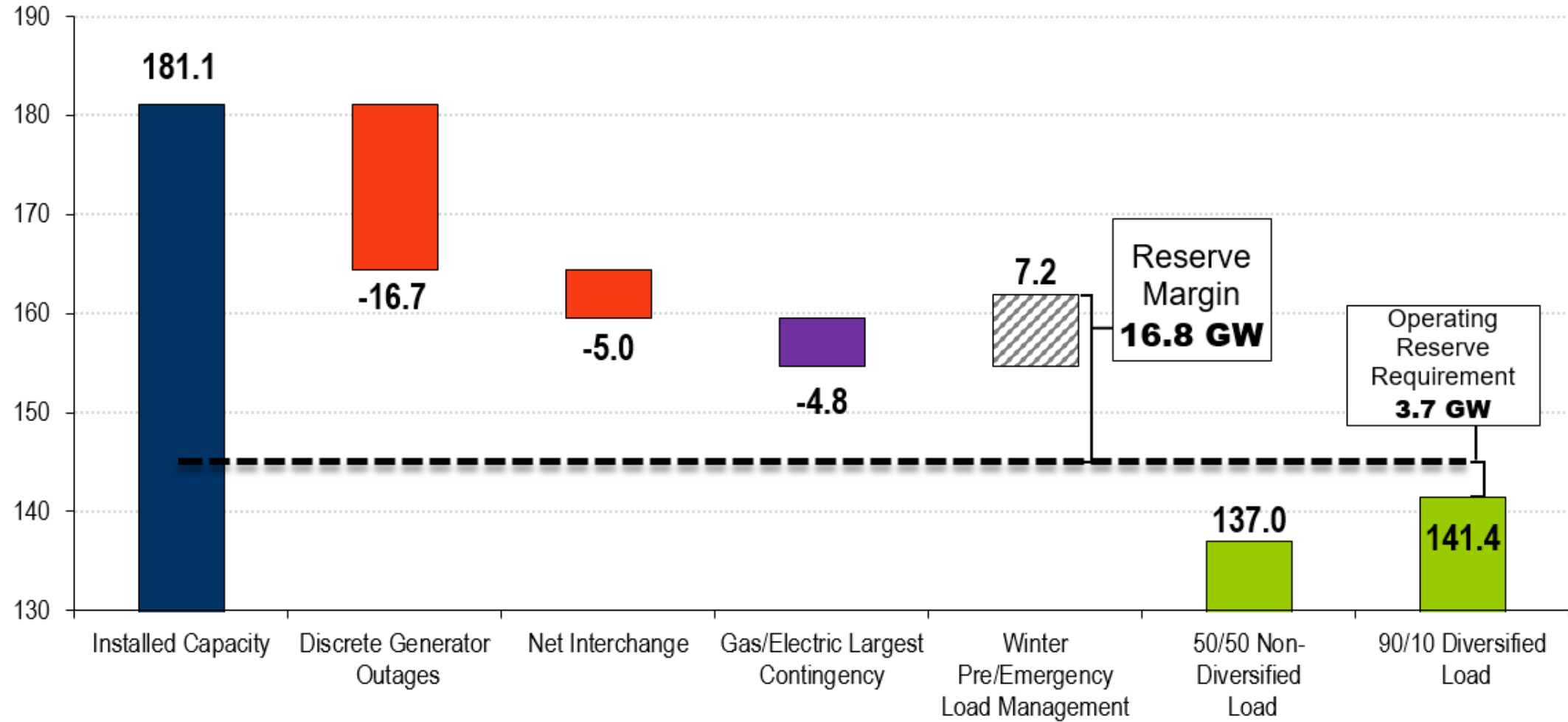


# Low Wind and No Solar Scenario (Winter 2023–24 – Preliminary)

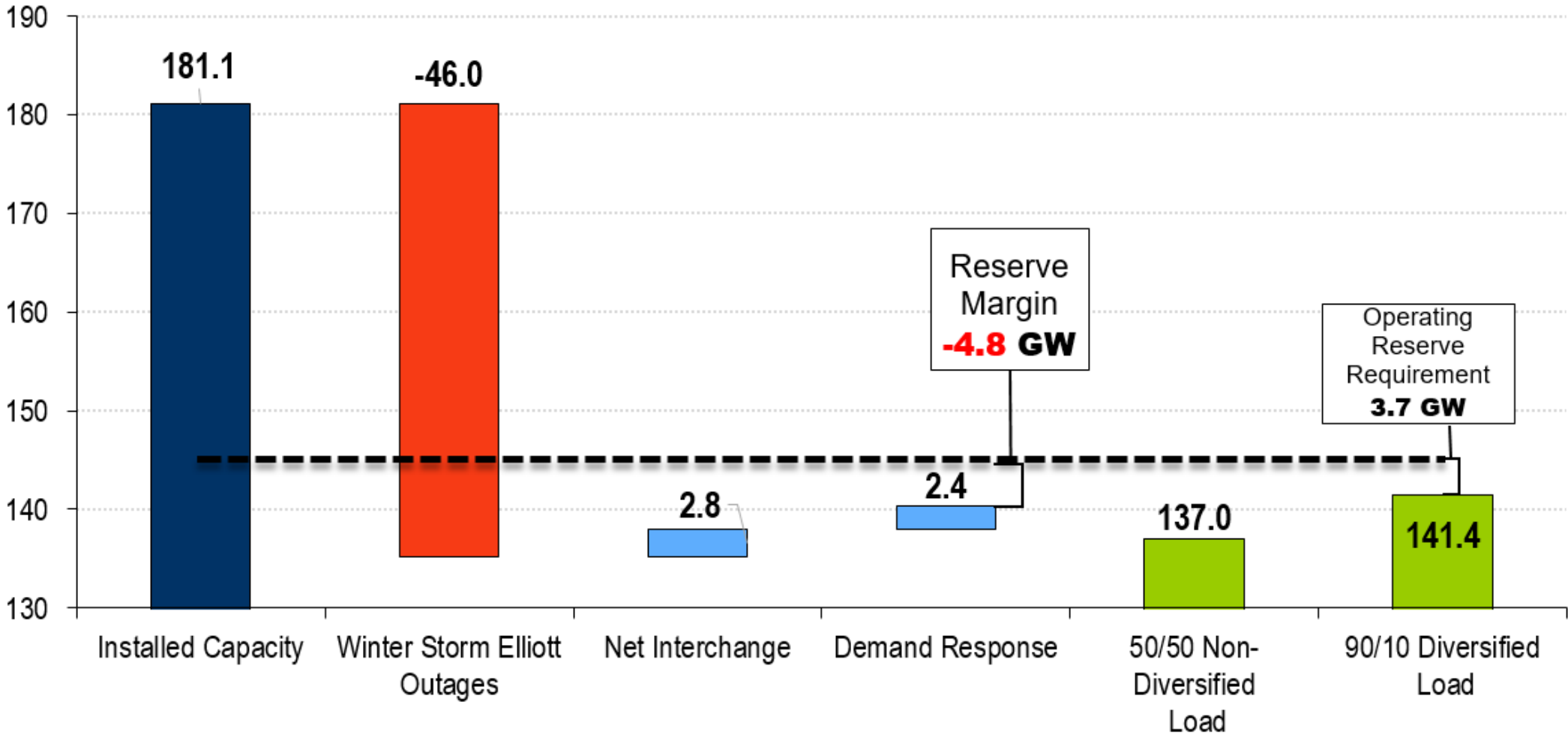
Capacity (GW)



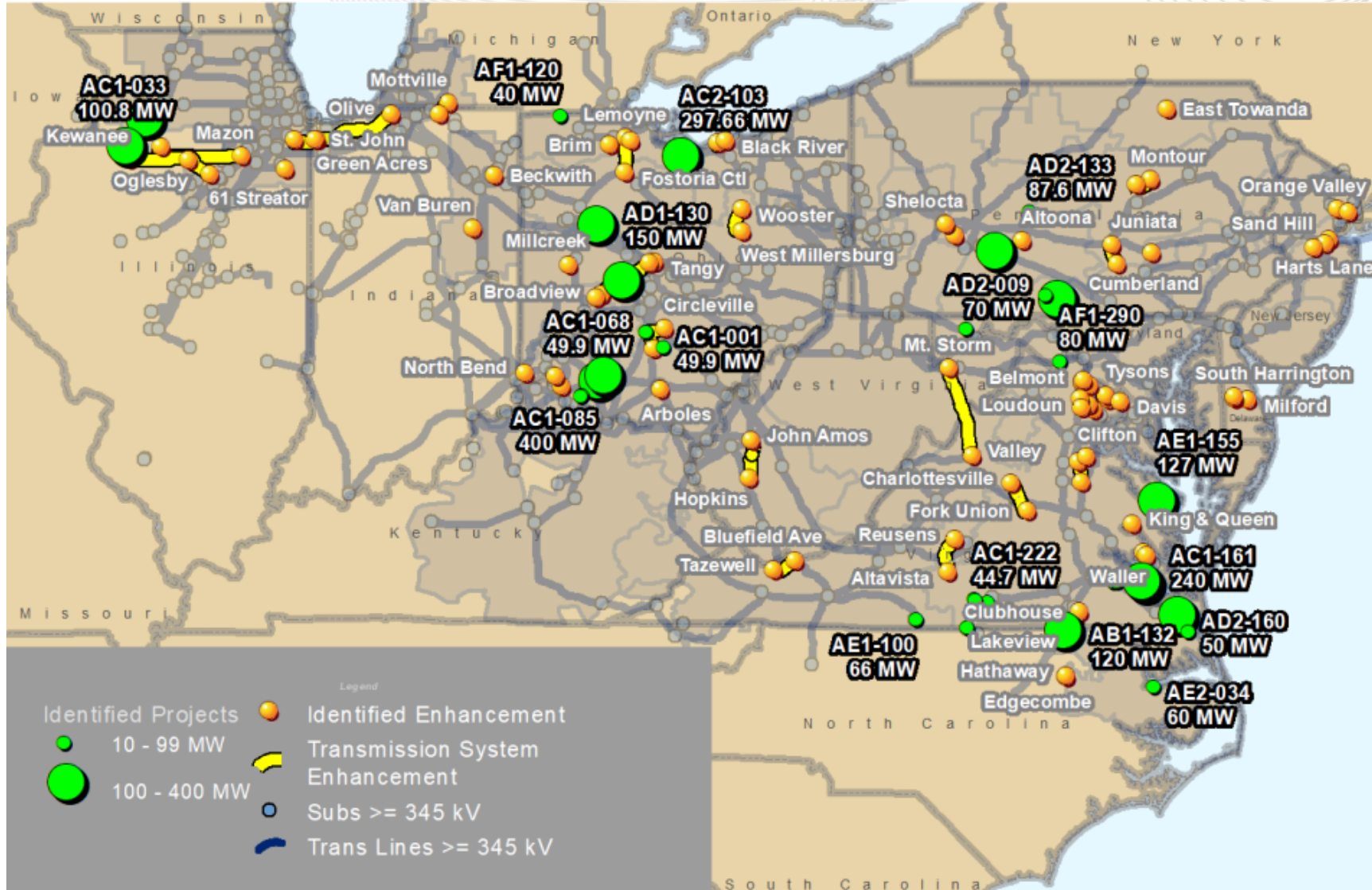
## Capacity (GW)



## Capacity (GW)



# Upcoming Generation and Transmission Projects



## 50/50 Non-diversified Peak Load Base Case

LAS Load Forecast	137,033 MW
RTO Case Interchange	3,950 MW** (Exporting)
PJM RTO Installed Capacity	181,136 MW (preliminary)
Discrete Generator Outages	16,653 MW

\*\*OATF Case Interchange (-3,950 MW) = Forecasted Net Interchange(-5,000 MW) + Pseudo-Tie Adjustment (1,050 MW)

- 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	Results
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
90/10 Load Forecast study (141,443 MW diversified peak load forecast)	No reliability concerns
Gas Pipeline Study	No reliability concerns
Solar and Wind Generation Sensitivity Study	No reliability concerns
Transfer Interface Analysis	No reliability concerns
BGE/PEPCO Import Capability	No reliability concerns



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



# Preliminary Reactive Interface Transfer Analysis

<b>Interface</b>	<b>Projected Limit for Winter 2023-24 (MW)</b>	<b>Typical Back-off (MW)</b>
Eastern	6057	300
Central	2332	200
Western	3890	200
Bed-Blackoak	1980	50
AP South	4793	100
AEP-DOM	4375	100
Cleveland	2880	200
CE-EAST	1349	200
5004/5005	3137	50

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**Operations Assessment Task Force  
2023-24 Winter Study**



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