



# Indiana Utility Regulatory Commission Summer Reliability Forum

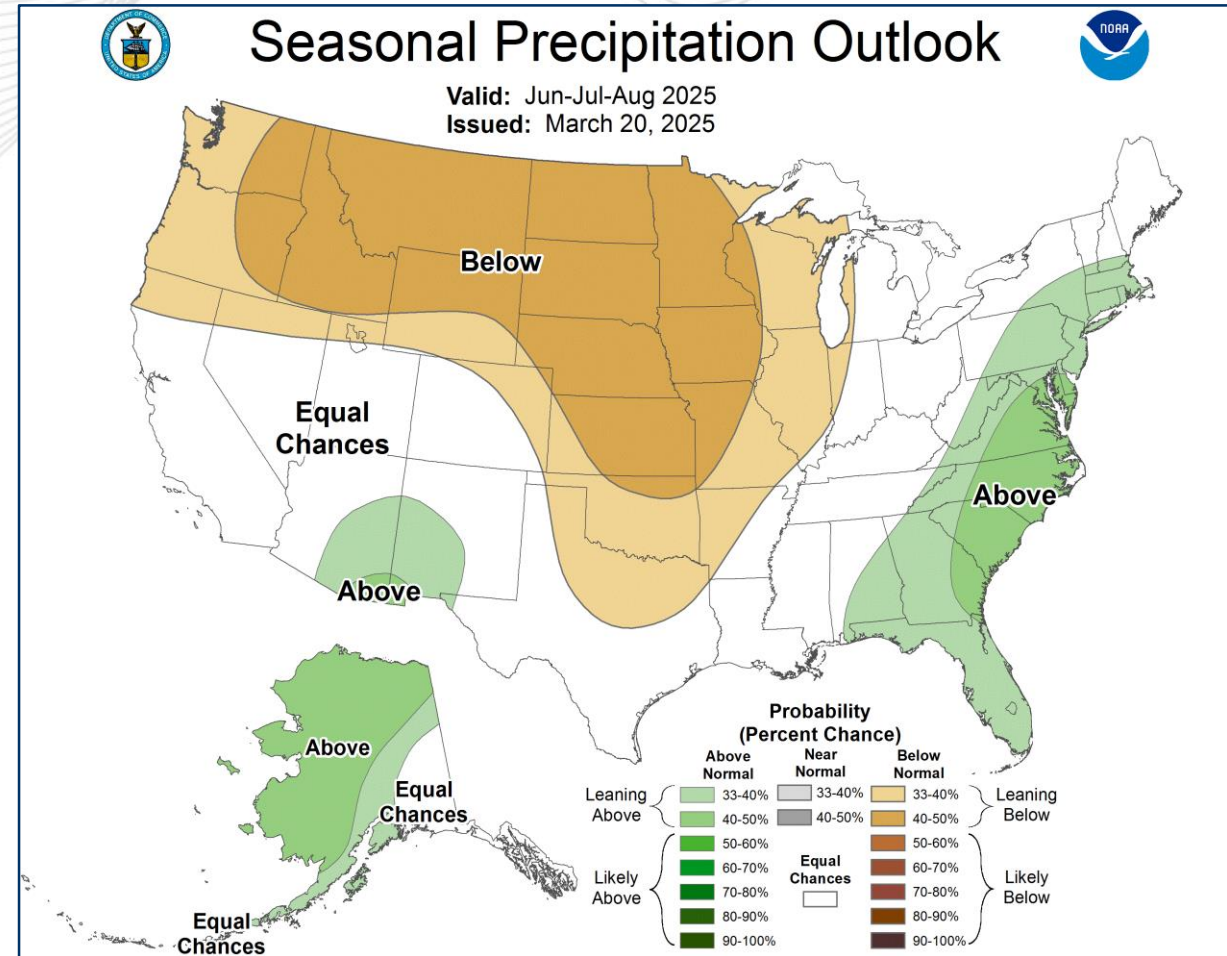
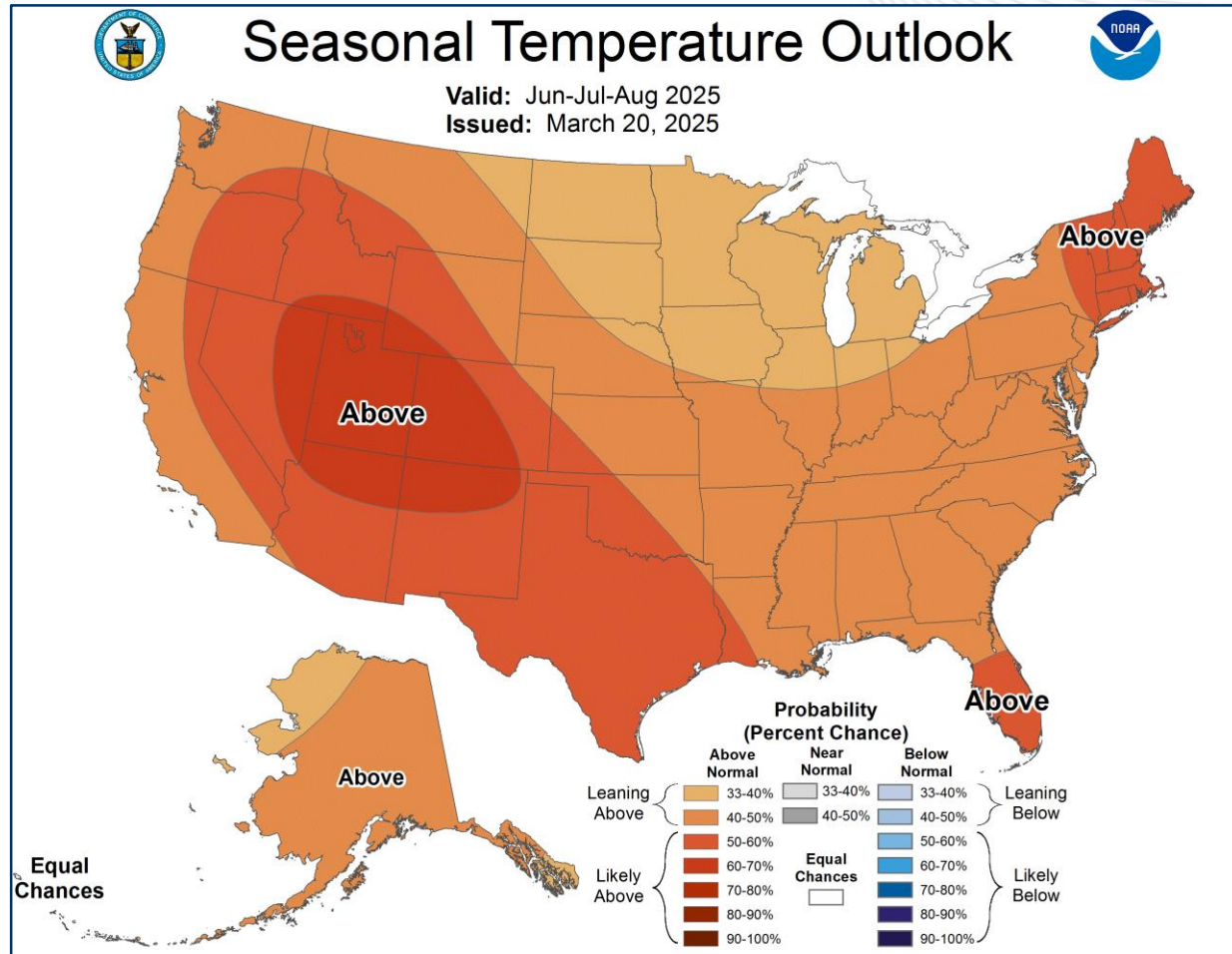
David Souder  
Executive Director, PJM System Operations  
May 20, 2025

**Summer Readiness/Sensitivity Analysis**

**Large Load Additions**

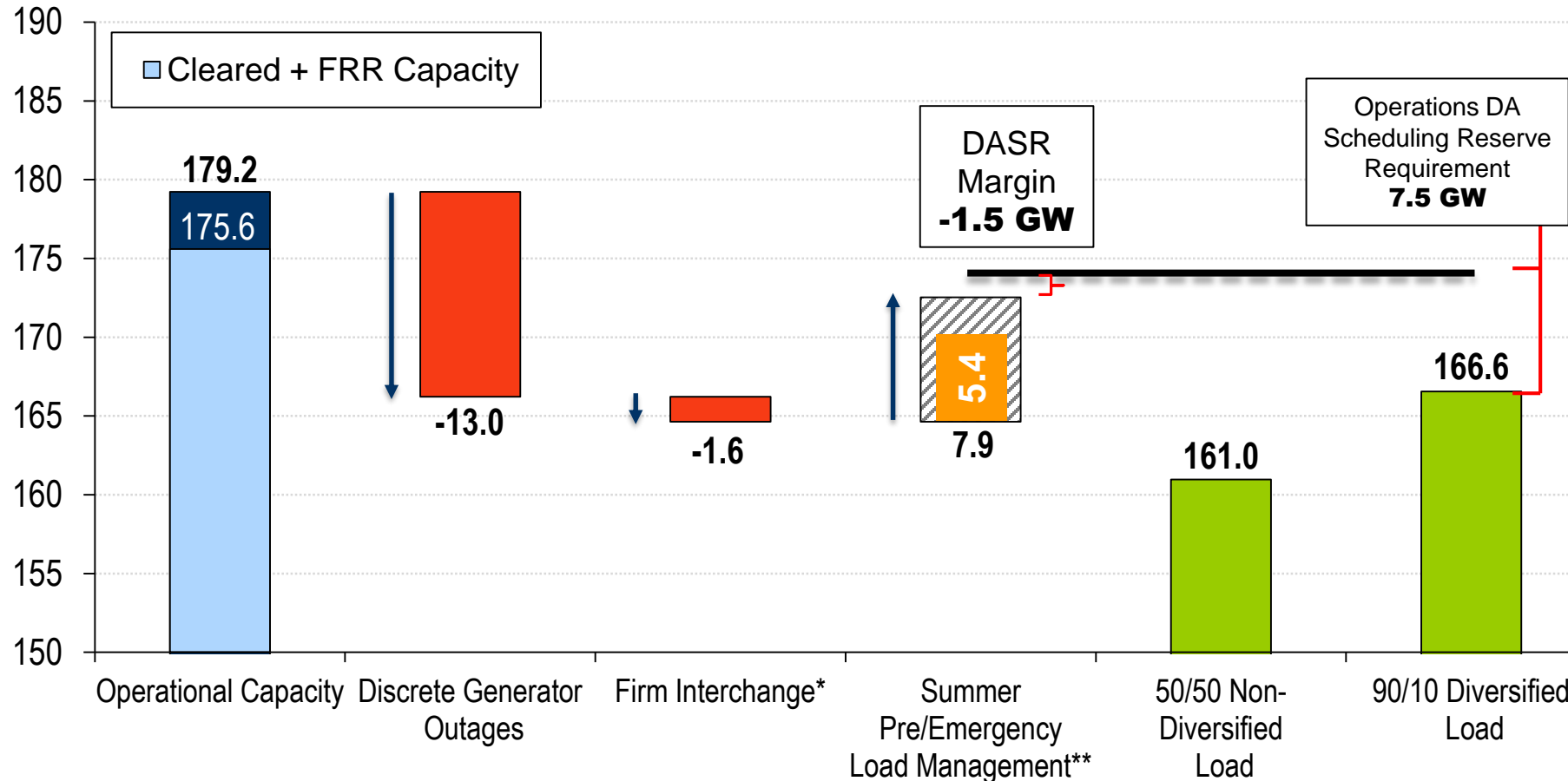
**Summer Preparedness/Gas Accreditation**

**Capacity Market**



## Capacity (GW)

### Summer 2025 OATF Case Overview (Preliminary)



## Anticipated PJM Actions To Reliably Serve the 90/10 Forecast:

1. Issue Max Gen/Load Management Alert (DA).
2. Schedule all available generation (DA).
3. Curtail all recallable exports (RT).
4. Implement Demand Response (~5.4 GW) to maintain Primary Reserve Requirement of 3.5 GW (RT).

\*1,600 MW out of the total **net interchange** (4,200 MW) are capacity-backed exports. \*\* 97% of Load Management is pre-emergency.

Sensitivity Studies	RESULTS
External Contingencies Impactful to 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 (166,562 MW diversified peak load forecast)	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

*50/50 modeled load forecast: **160,961 MW***

*90/10 modeled load forecast: **166,562 MW***

- NERC/RF/SERC Summer Prep Activities
  - Seasonal Fuel Inventory and Emissions Data Request
  - Pre-Summer Reactive Capability Verification
  - Maintenance Margin/Basic Values and Generation Outages
  - Seasonal Capacity and Deliverability Analysis
- Periodic Fuel and Non-Fuel Consumables Inventory Data Requests
  - RTO-Wide Summer Emergency Procedures Drill
  - SERC and NPCC Summer Operations and Capacity Projections
  - NYISO, MISO, TVA and CPL Seasonal Readiness Meetings



# Process for Large Load Adjustments

**July**  
PJM requests information on potential load adjustments.

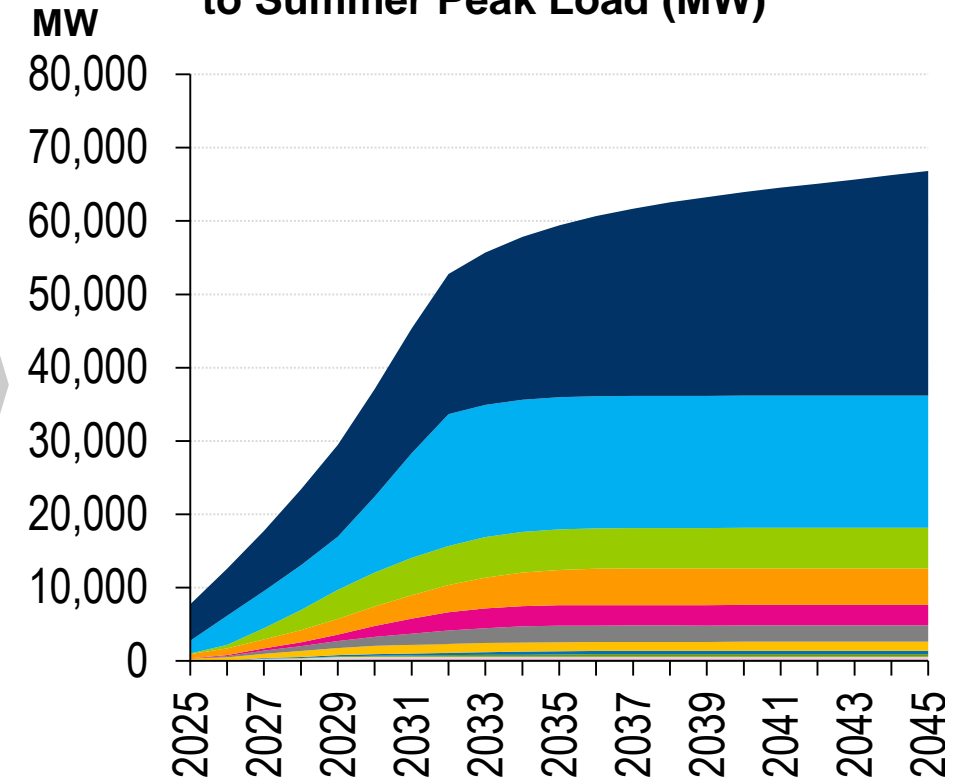
**September**  
PJM receives information on load adjustments and begins evaluation.

**October**  
Members present on load adjustments to Load Analysis Subcommittee.

**November**  
PJM continues evaluation and presented **preliminary** accepted requests to Load Analysis Subcommittee.

**January**  
PJM presents and posts official PJM Load Forecast.

**Total Load Associated With Adjustments to Summer Peak Load (MW)**



[Manual 19: Attachment B](#)

## ACTIONS TAKEN TO ADD GENERATION



**Elimination of the Prior  
Must-Offer Exemption**



**Reliability  
Must Run**



**Reliability  
Resource Initiative**



**Demand Response**



**Surplus  
Interconnection Service**

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## ACTIONS UNDERWAY TO ADD SUPPLY



**FERC considering Capacity  
Interconnection Rights transfer proposal.**



**Collaboration with stakeholders on Demand  
Response and market rules**



States and stakeholder actions can help mitigate price increases and support grid reliability during this era of tightened supply.

## PJM

- Supports keeping existing generation online until replacement generation gets built and operates
- Encourages all generation owners who have signaled intent to retire to reconsider
- Supports efforts to restart units at retired plant sites

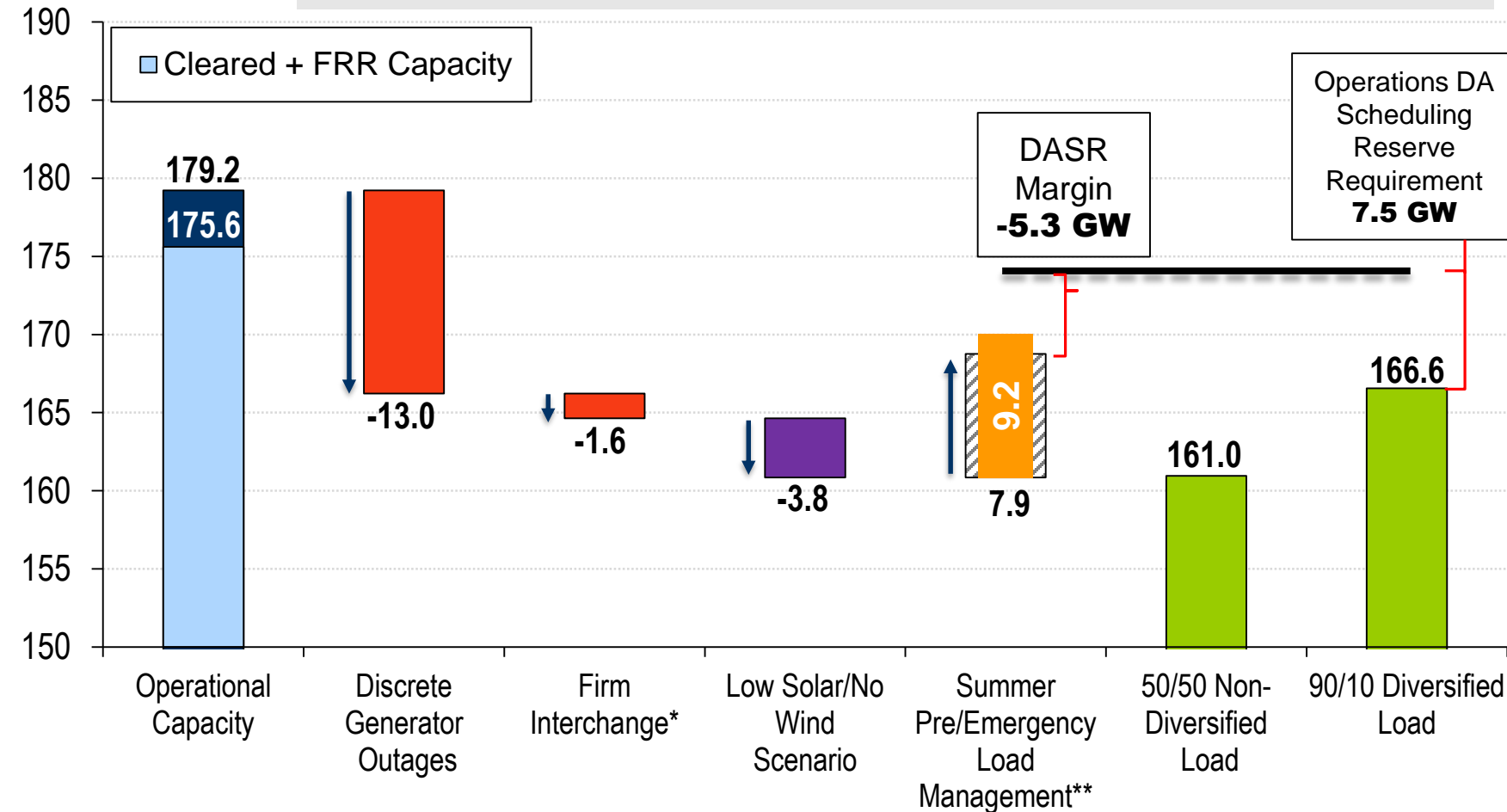
## POLICYMAKERS

- Help reconsider, change or delay energy policy in order to increase supply.
- Explore opportunities to hedge energy costs.

# Appendix

## Capacity (GW)

### Summer 2025 Low-Solar/No-Wind Scenario Overview (Preliminary)



### Anticipated PJM actions to reliably serve the 90/10 forecast:

1. Issue Max Gen/Load Management Alert (DA).
2. Schedule all available generation (DA).
3. Curtail all recallable exports (RT).
4. Implement **all** Demand Response (**7.9 GW**) to meet the load + Primary Reserve Requirement of 3.5 GW (RT).
5. Call Maximum Emergency energy into capacity and purchase emergency energy (If available) to address the **1.3 GW shortfall**.
6. Initiate escalating Emergency Procedures if needed (RT).

\*1,600 MW out of the total **net interchange** (4,200,MW) are capacity-backed exports.

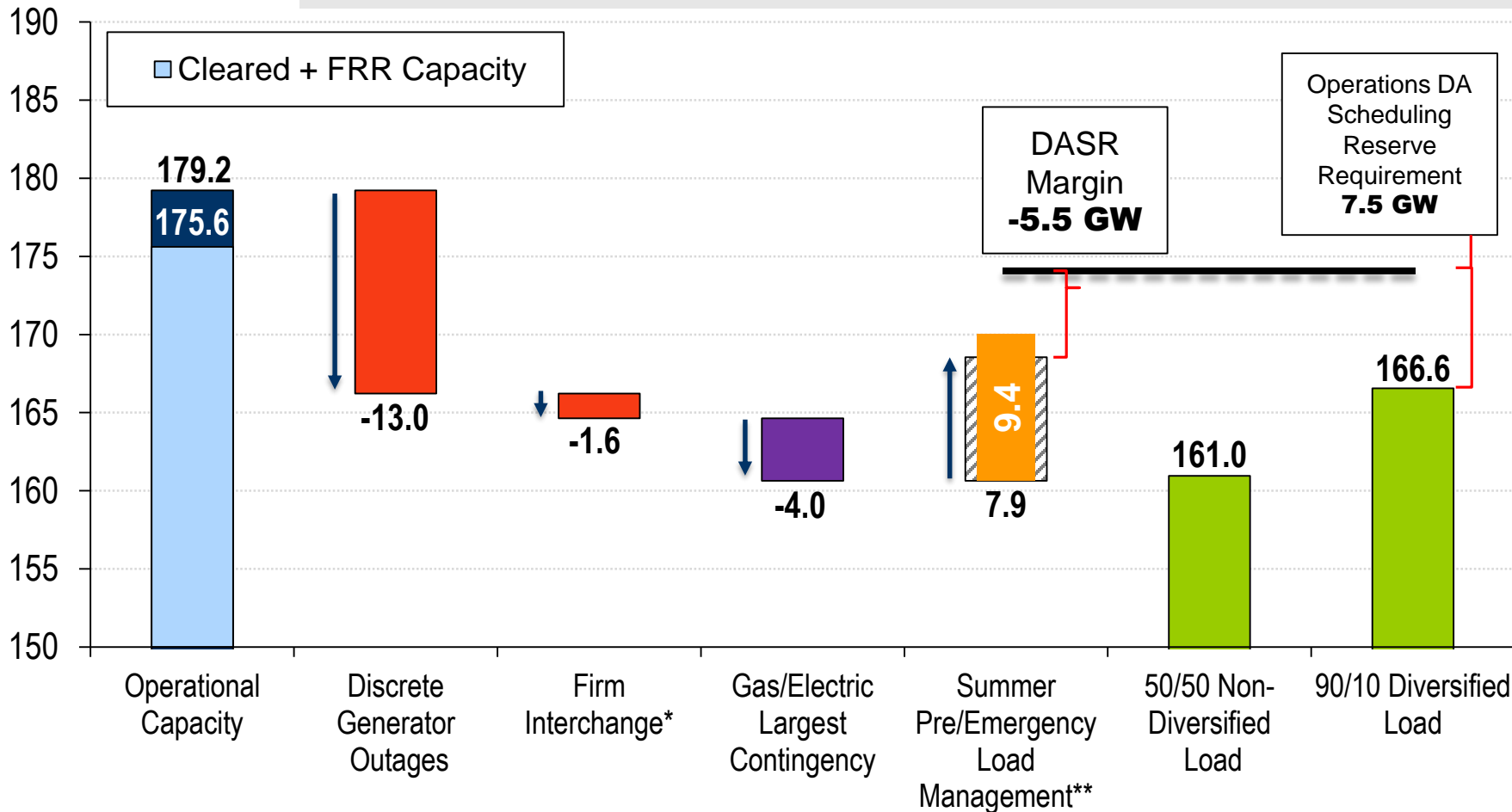
\*\* 97% of Load Management is pre-emergency.

# Gas-Electric Contingency Scenario

(Summer 2025 – Preliminary)

## Capacity (GW)

## Summer 2025 Gas-Electric Contingency Scenario Overview (Preliminary)



## Anticipated PJM actions to reliably serve the 90/10 forecast:

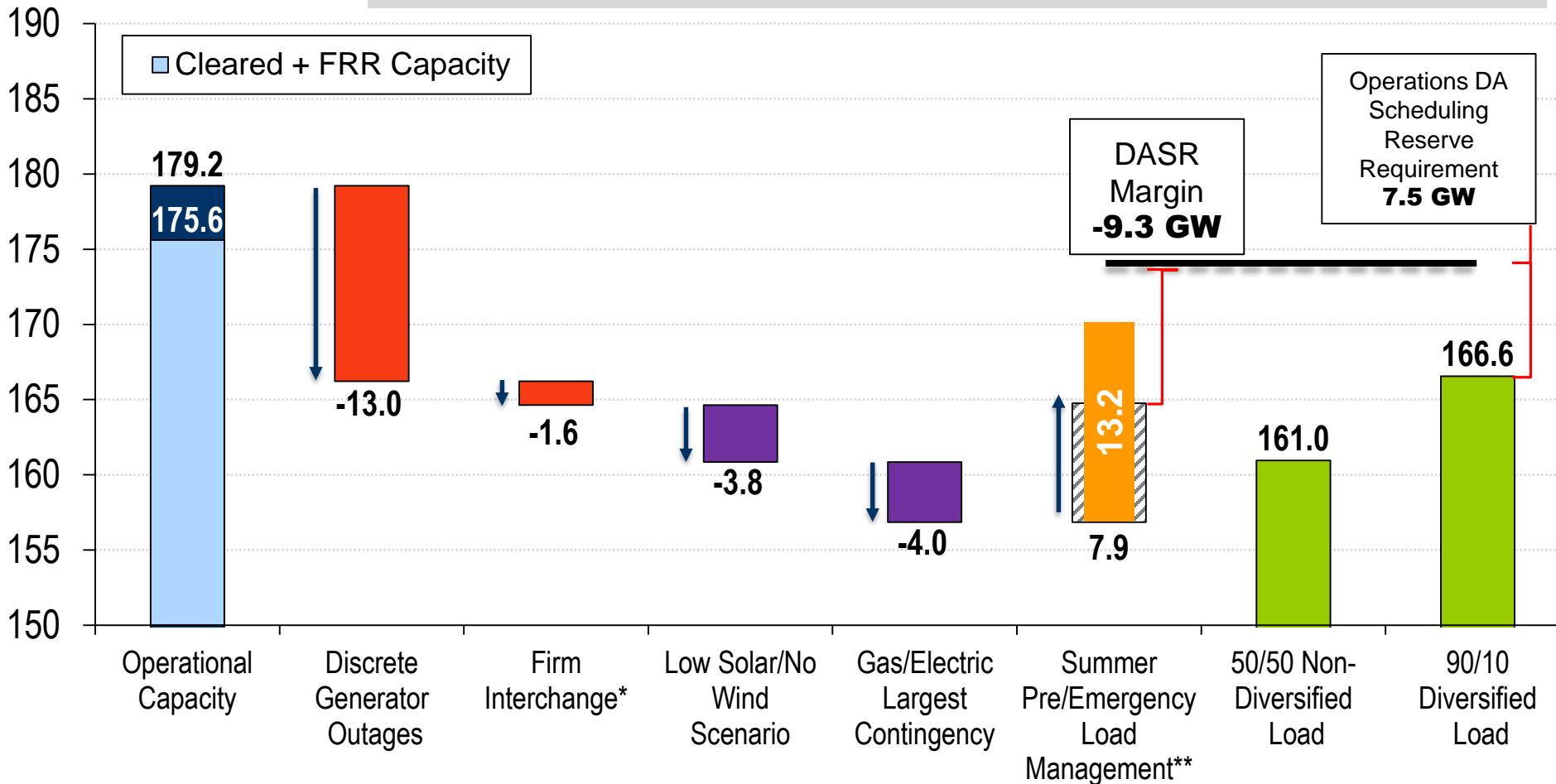
1. Issue Max Gen/Load Management Alert (DA).
2. Schedule all available generation (DA).
3. Curtail all recallable exports (RT).
4. Implement **all** Demand Response (7.9 GW) to meet the load + Primary Reserve Requirement of 3.5GW (RT).
5. Call Maximum Emergency energy into capacity and purchase emergency energy (If available) to address the **1.5 GW shortfall**.
6. Initiate escalating Emergency Procedures if needed (RT).

\*1,600 MW out of the total **net interchange** (4,200 MW) are capacity-backed exports.

\*\* 97% of Load Management is pre-emergency.

## Capacity (GW)

### Summer 2025 Stressed System Scenario Overview (Preliminary)



### Anticipated PJM actions to reliably serve the 90/10 forecast:

1. Issue Max Gen/Load Management Alert (DA).
2. Schedule all available generation (DA).
3. Curtail all recallable exports (RT).
4. Implement **all** Demand Response (7.9 GW) to meet the load + Primary Reserve Requirement of 3.5 GW (RT).
5. Call Maximum Emergency energy into capacity and purchase emergency energy (If available) to address the **5.3 GW shortfall**.
6. Initiate escalating Emergency Procedures if needed (RT).

\*1,600 MW out of the total **net interchange** (4,200 MW) are capacity-backed exports.

\*\* 97% of Load Management is pre-emergency.