



# NPCC 2024 Summer Reliability Assessment Summary

NYSRC Executive Committee  
Meeting

Friday, June 14, 2024



# NPCC 2024 Summer Reliability Assessment

- Summary of Major Findings
  - Deterministic
    - NPCC and NPCC Area peak week exposure analysis
  - Probabilistic
    - Multi Area probabilistic reliability hourly assessment
- Weather Outlook

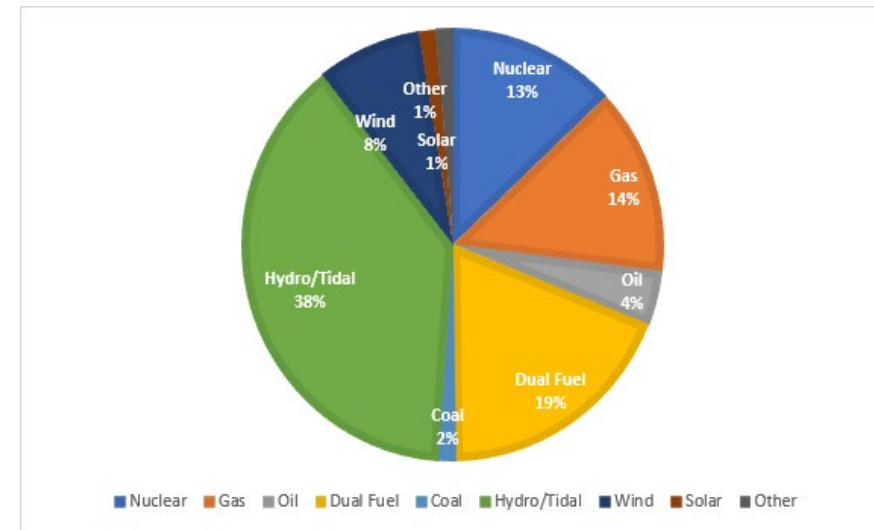


# NPCC Resources – Summer 2024

## Renewables, Solar and Load Management



Nameplate Wind Capacity	14,051 MW
Nameplate Solar Capacity	3,915 MW
Installed Behind-The-Meter (BTM) PV	12,842 MW
Demand Response Program Resources	3,199 MW



- Forecast Installed Capacity: **158,000 MW** (August 2024)
- Forecast Peak Demand: **105,000 MW** (August 2024)

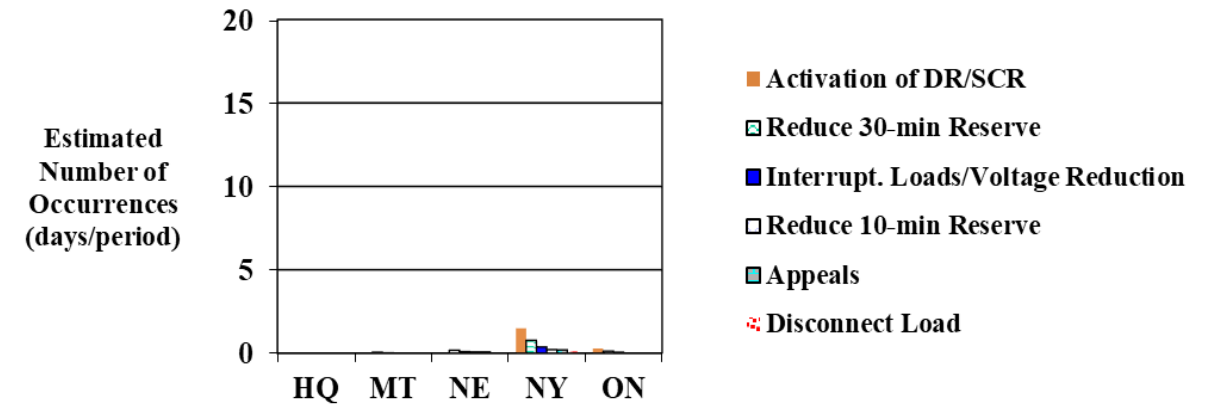
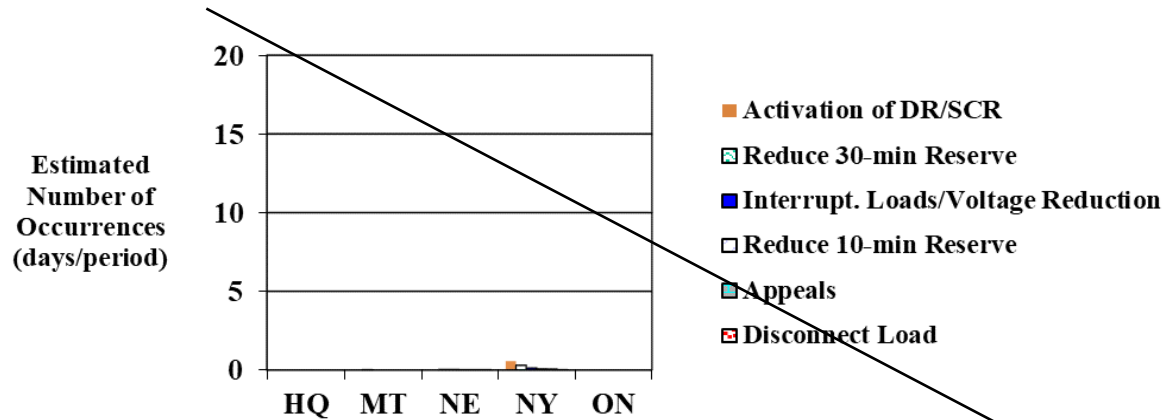


## NPCC Deterministic Analysis

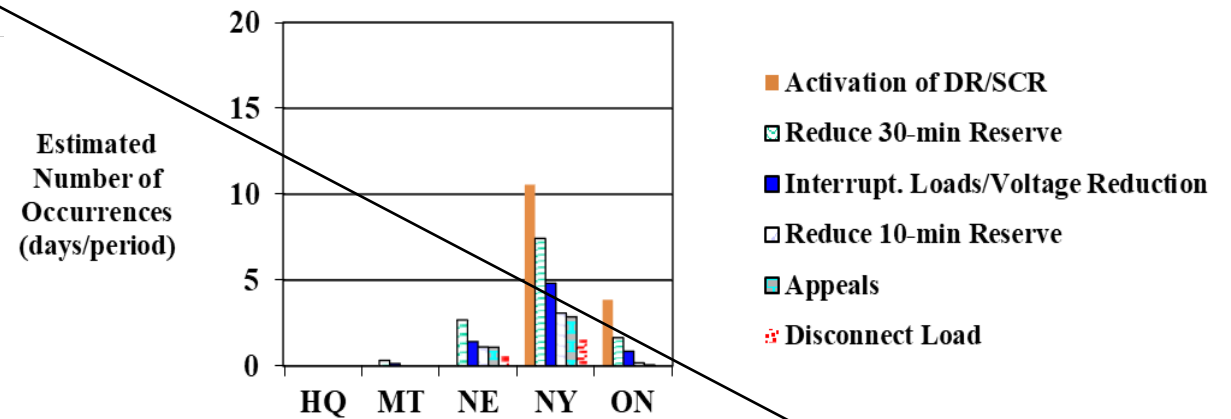
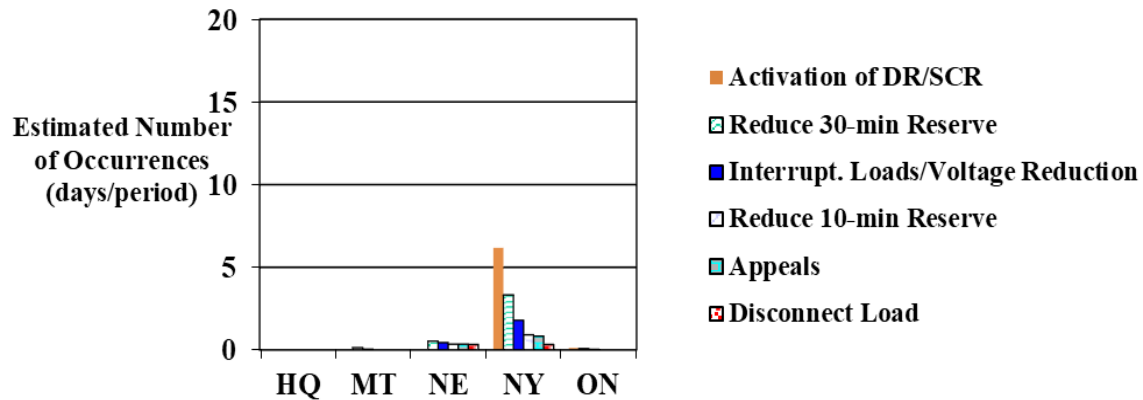
- The assessment is based on estimates of demand, resource and transmission project's availability reported as of May 10, 2024. NPCC's assessment indicates sufficient Area transmission capability and capacity margins available to meet expected (50/50) peak demand and required operating reserve this summer.
- The region's spare operable capacity (capacity over and above reserve requirements of ~8,700 MW) during the summer period (June to September) is estimated to range from approximately 7,000 to 18,000 MW.
- After accounting for transmission constraints, the minimum forecasted NPCC revised net margin is ~6,000 MW.
- The sizeable estimate of NPCC spare operable capacity will help to counteract any adverse reliability impacts from the unavailability or inoperability of key facilities, such as resulting from equipment, fuel supply interruptions, deferred generation maintenance, and higher than expected demand.
- Established operating procedures are available to maintain reliability and keep electricity supplies and demand in balance.



**Low risk**



**Base Case Assumptions – Expected 50/50 Load Level**



**Severe Case Assumptions – Highest Load Levels**  
~10%-15% less resources - 7% chance of occurrence

**Higher Risk**

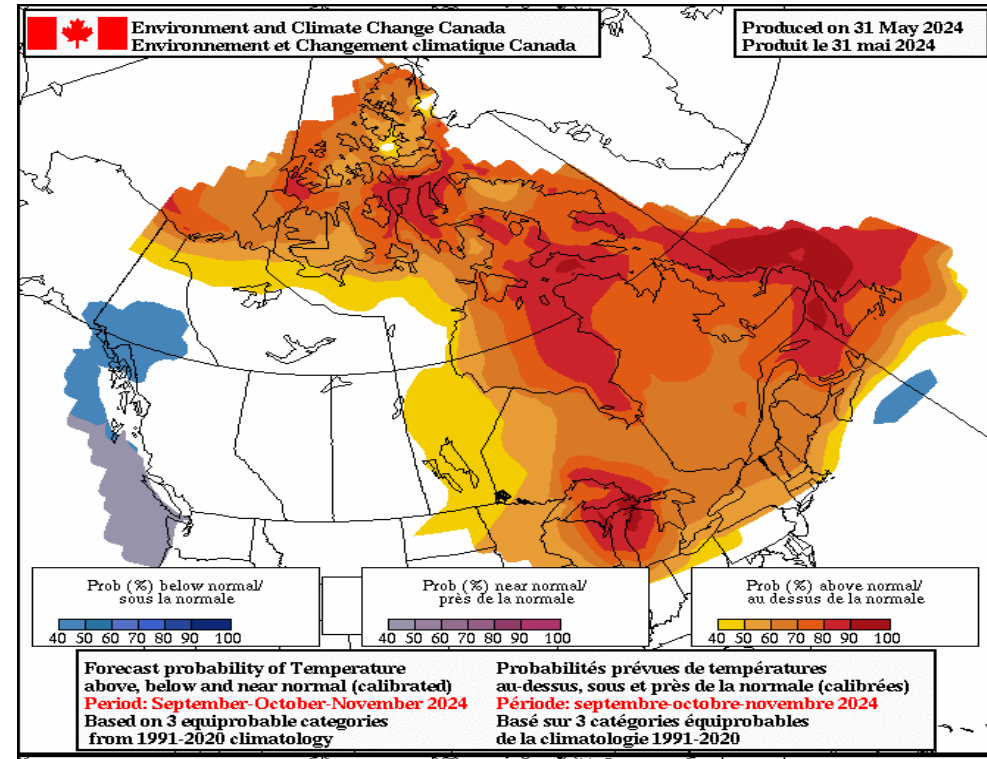
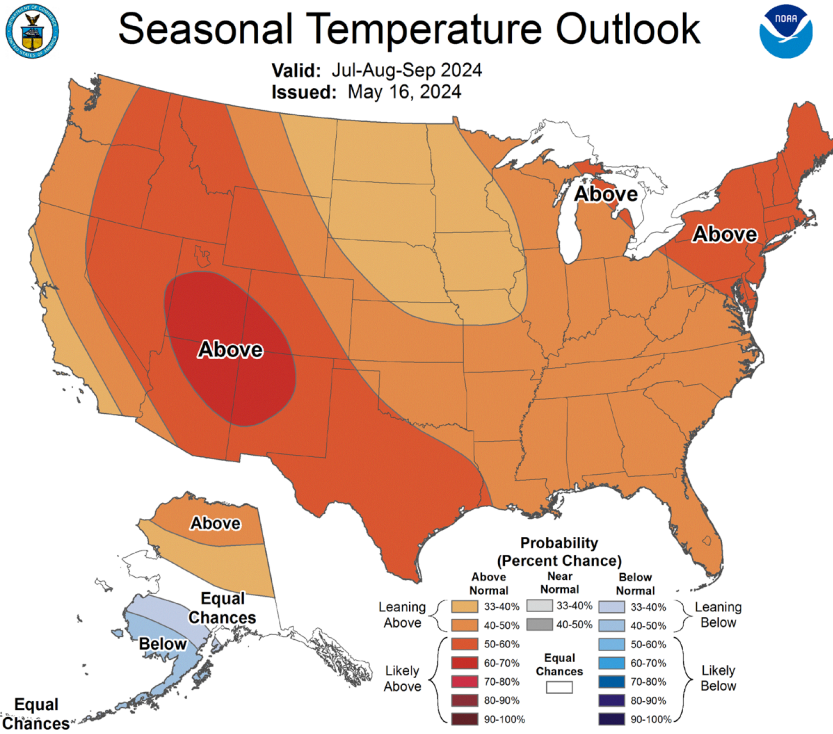


# NPCC Summer Readiness

- Reliability Coordinator (RC) Communications:
  - Daily – discuss and alert NPCC and neighboring RCs of any potential or emerging problems
  - Weekly – review a seven-day outlook for the Region, including contingencies, margins and weather, and to ensure future system changes (generation and transmission) outages are coordinated
  - RCs continue to regularly conduct NPCC Emergency Preparedness Calls to review system conditions, if needed, prior to adverse weather
- NPCC Task Forces and Working Groups support continued reliable operations through reviewing and assessing the performance of the bulk power system
- Supports regional Electric-Gas Operations reliability coordination efforts promoting inter-sector communication, awareness and information sharing



# Summer 2024 Terrestrial Weather Forecast



Environment Canada

[Link](#)

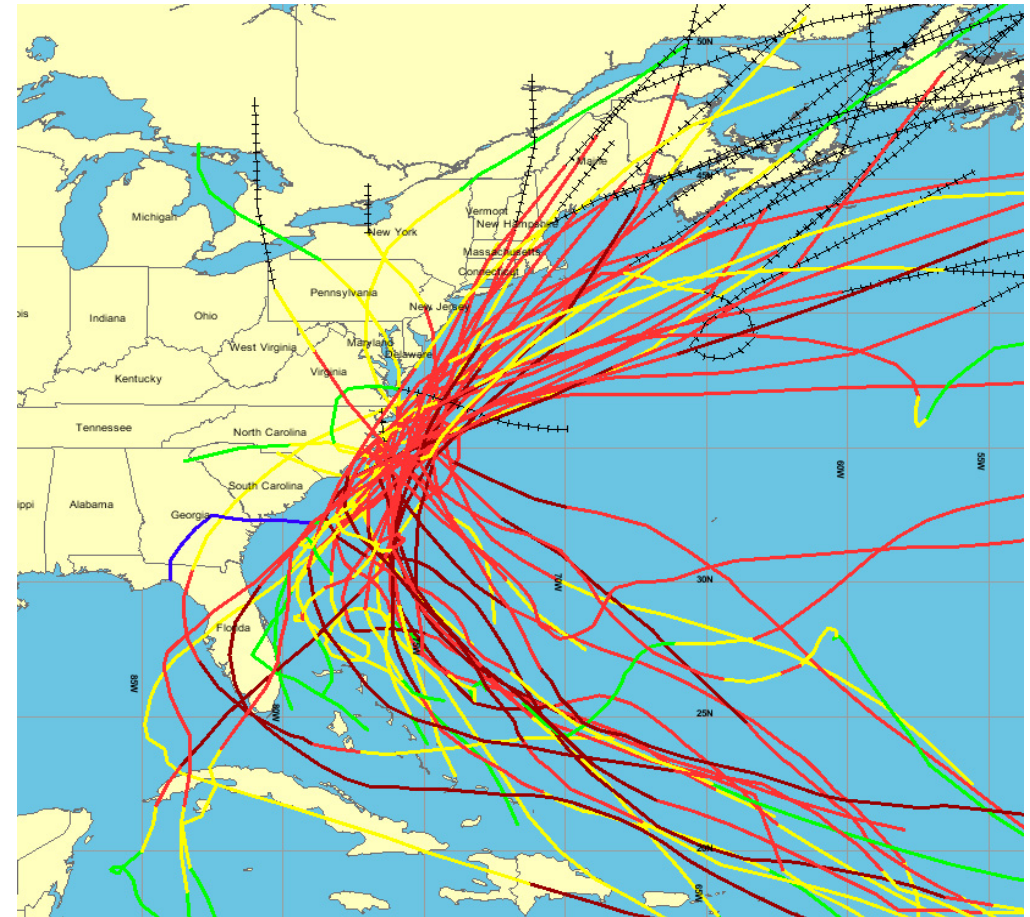


## NOAA predicts above-normal 2024 Atlantic hurricane season

NOAA is forecasting a range of 17 to 25 total named storms (winds of 39 mph or higher). Of those, 8 to 13 are forecast to become hurricanes (winds of 74 mph or higher), including 4 to 7 major hurricanes (category 3, 4 or 5; with winds of 111 mph or higher). Forecasters have a 70% confidence in these ranges.

The upcoming Atlantic hurricane season is expected to have above-normal activity due to a confluence of factors, including near-record warm ocean temperatures in the Atlantic Ocean, development of La Nina conditions in the Pacific, reduced Atlantic trade winds and less wind shear, all of which tend to favor tropical storm formation.

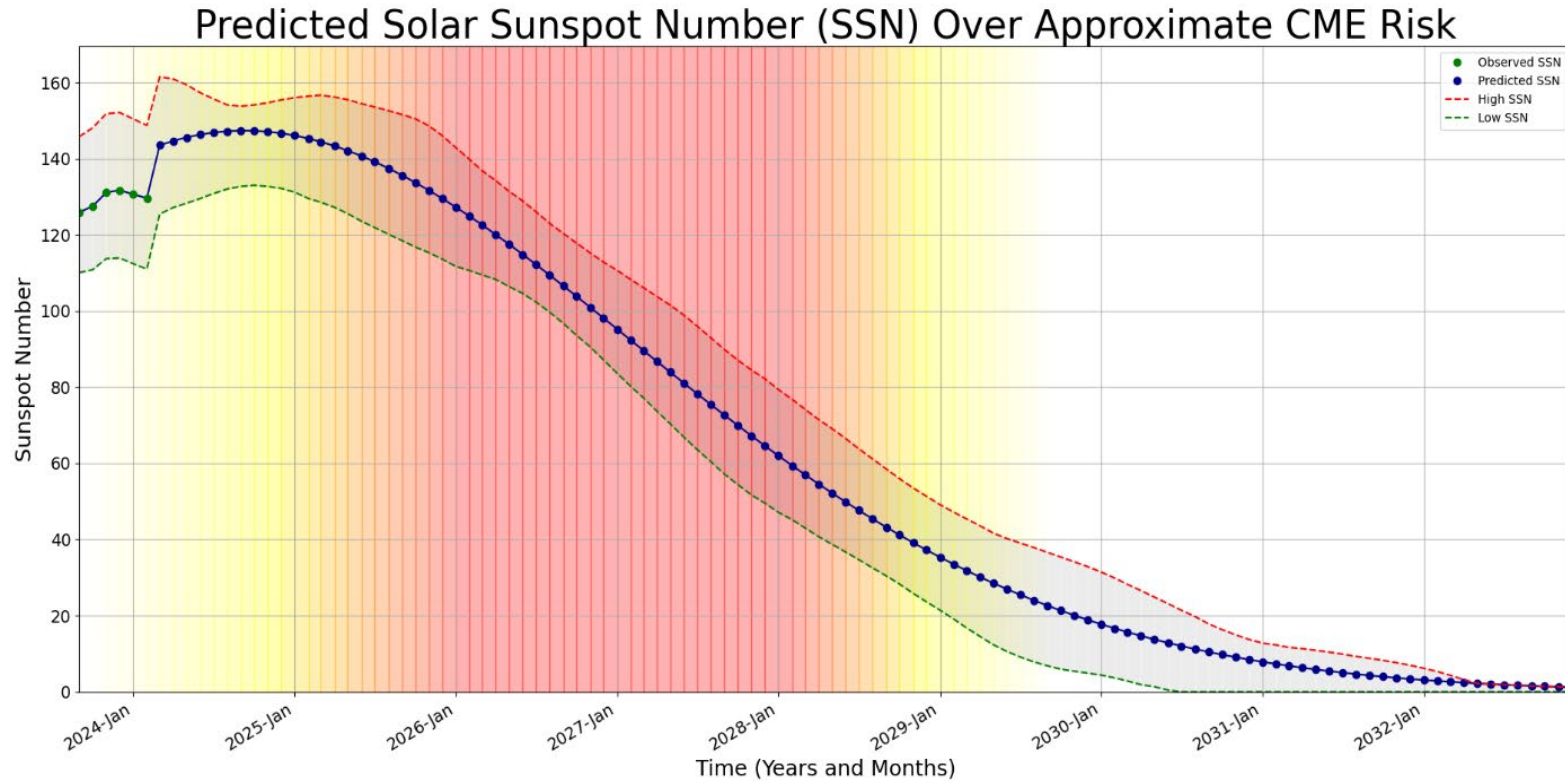
<https://www.noaa.gov/news-release/noaa-predicts-above-normal-2024-atlantic-hurricane-season>







# Summer 2024 Space Weather Forecast





## **NPCC Media release – June 6, 2024**

<https://www.npcc.org/news/detail/summer-reliability-assessment-forecasts-adequate-electricity-supplies>

## **NPCC 2024 Summer Reliability Assessment**

<https://www.npcc.org/library/reports/seasonal-assessment>

