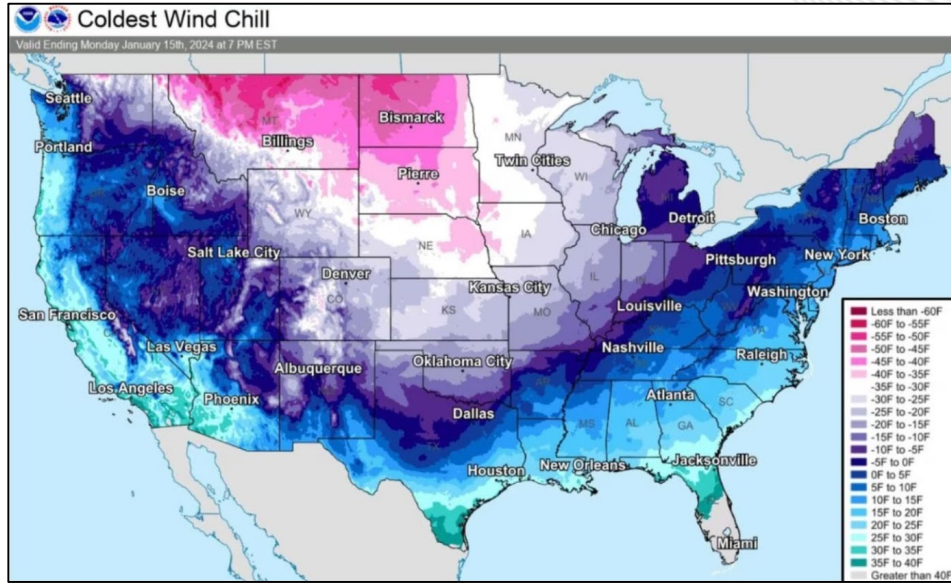




# Winter Storm Gerri

# Winter Storm Gerri: Jan. 13–18, 2024



**On Jan. 13:** Arctic air pushed into Western Region.

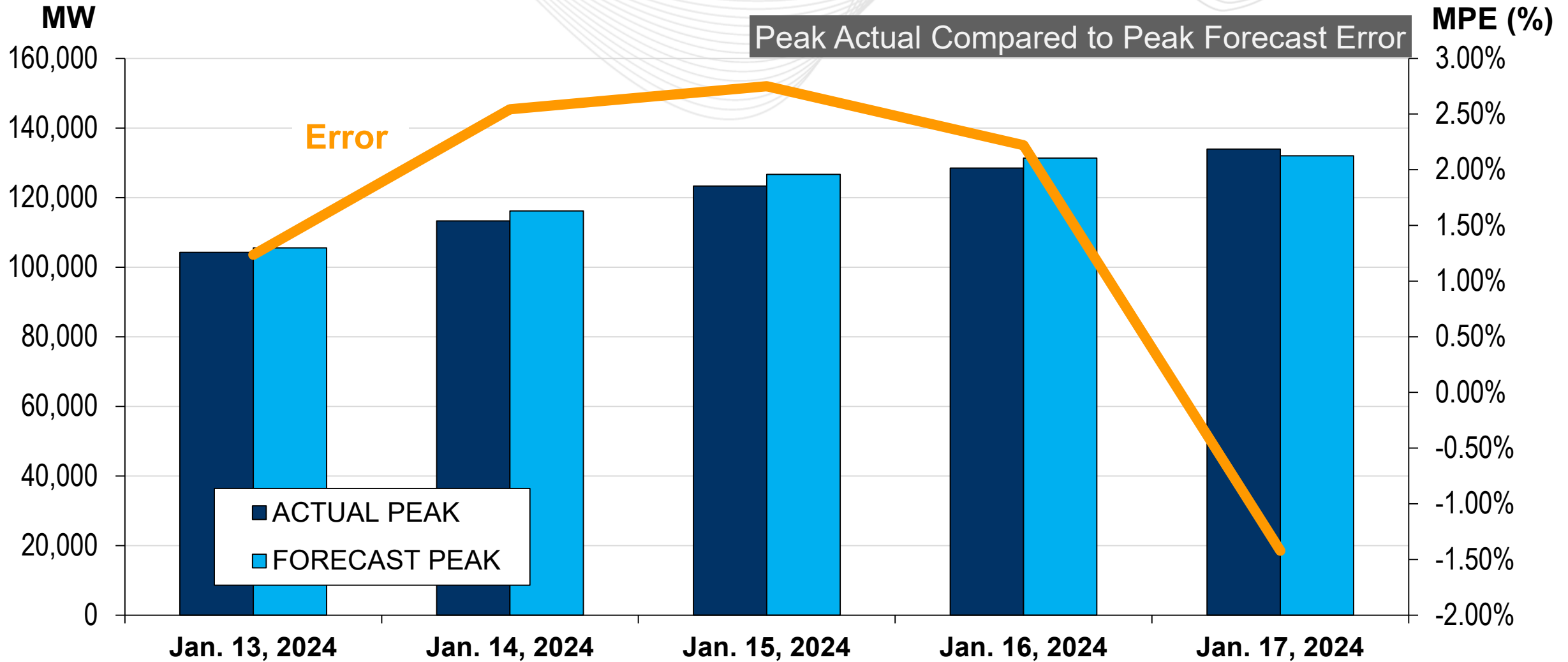
**From Jan. 14–16:** Air temperatures below zero degrees in COMED most hours

**On Jan. 15:** Coldest in Western Region

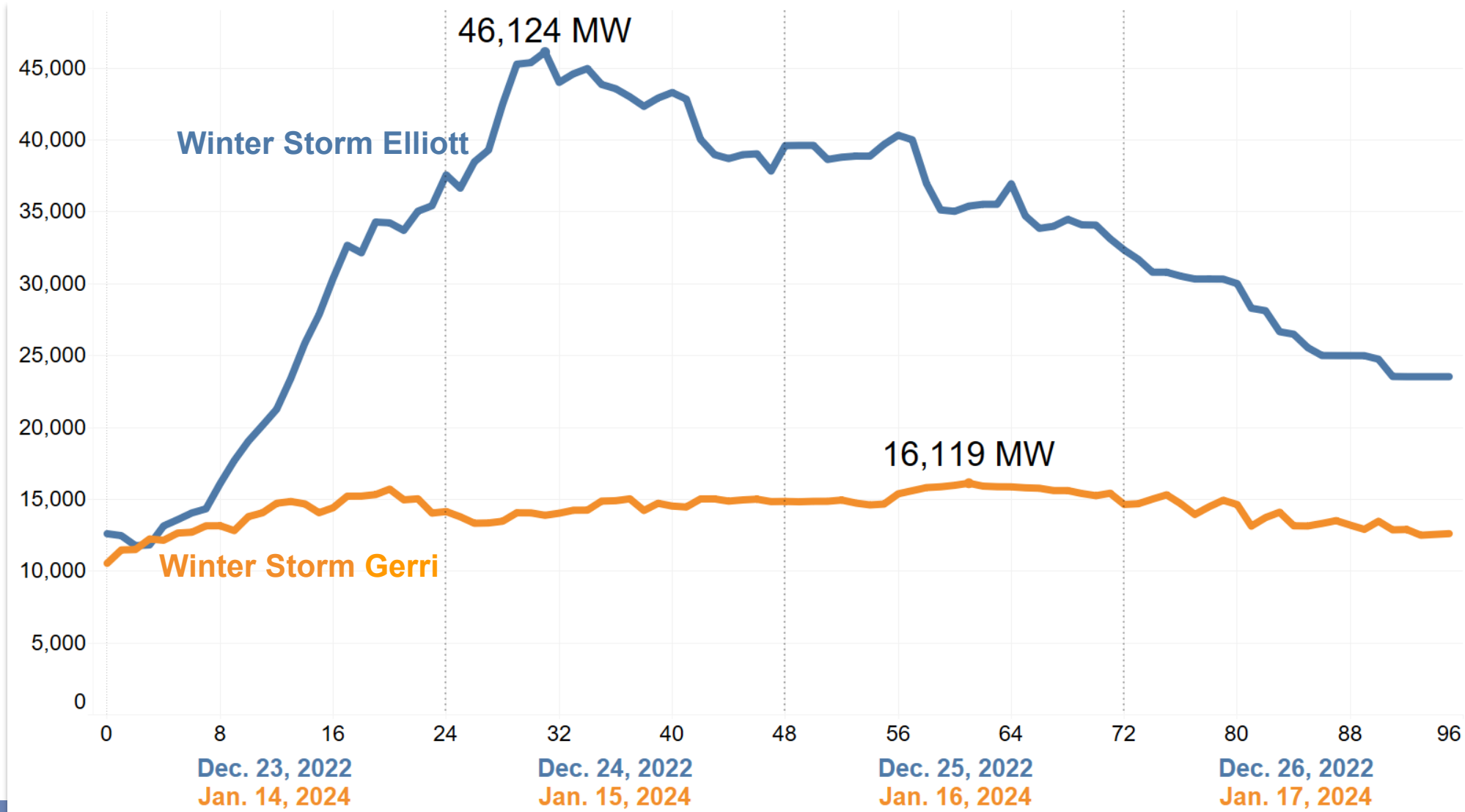
**On Jan. 17:** Coldest in Mid-Atlantic and Dominion regions

Winter Storm Elliott Dec. 23–26, 2022			January 13–18, 2024 Cold Wave	
Cities	Coldest Air Temperature	Coldest Wind Chill	Coldest Air Temperature	Coldest Wind Chill
Chicago	-8°F	-35°F	-10°F	-33°F
Columbus	-7°F	-34°F	6°F	-13°F
Louisville	-5°F	-31°F	6°F	-6°F
Philadelphia	7°F	-14°F	14°F	2°F
Richmond	8°F	-11°F	14°F	9°F

# Winter Storm Gerri: Forecast Error Trend



# Winter Storm Gerri: Forced Outage Comparison

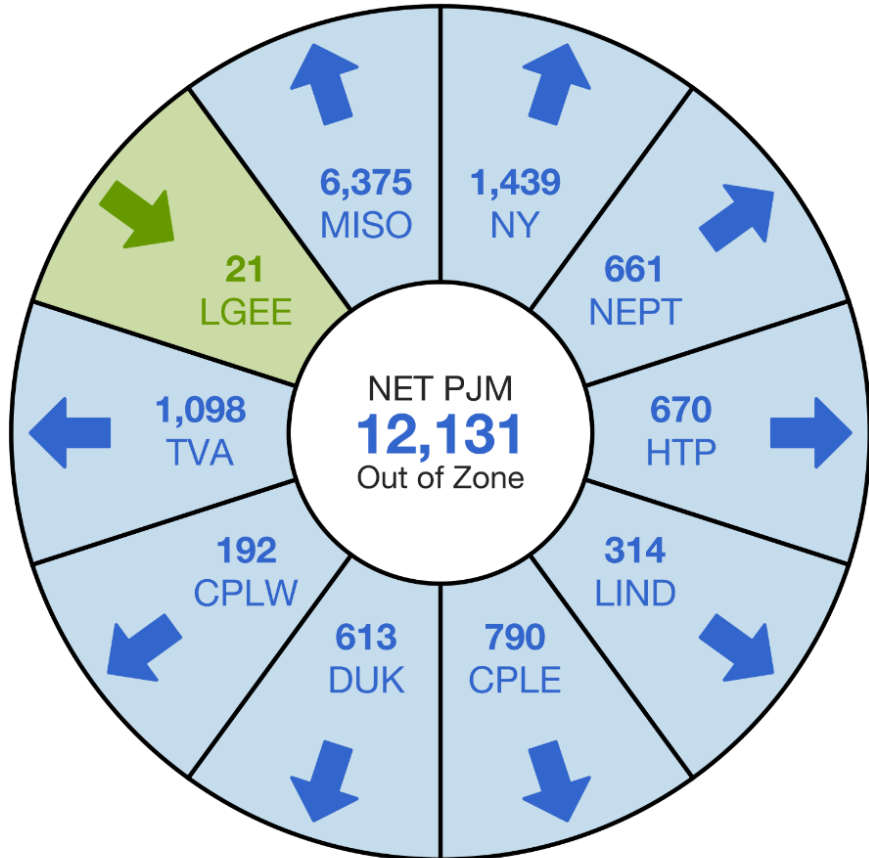


**Note:** 16,653 MW discrete generator outages modeled in winter OATF analysis.

Winter Storm Gerri outage data shown is collected from eDART and considered preliminary.

- Much better performance compared to WS Elliott
- Production well freeze-off impact greatly reduced in the Northeast.
- Strong pipeline performance with minimal capacity or pressure impacts
  - All pipelines were effectively “locked down” with various levels of daily and hourly capacity and contractual restrictions.
  - Mechanically only a couple of minor compressor station issues that were quickly rectified within a few hours with minimal impact on generation
- PJM Gas-Electric Team maintained continuous communication with the pipeline control centers to monitor and share operating conditions and forecasts.
- Spot gas prices spiked up during trading on Friday, Jan. 12, 2024, for MLK holiday weekend gas (Saturday through Tuesday) but not to the levels observed during WS Elliott.

As of Jan. 17, 2024, 9:35 a.m. EPT



- Eastern Interconnection relies on mutual aid.
- PJM was able to aid neighbors at depth of cold snap, exporting nearly 10% of PJM's own needs.
- During 2014 Polar Vortex, roles were reversed, PJM imported power.

Actual  
Imports: **21**  
Exports: **12,152**

Scheduled  
Imports: **71**  
Exports: **11,827**

## Peak Load 134,777 MW - January 17<sup>th</sup> @ 08:10

- Limited set of emergency procedures required
- Load forecast error within 3% threshold
- Significant level of exports to assist neighbors
- Strong generator performance
- Much better gas performance compared to Winter Storm Elliott
- Excellent transmission performance