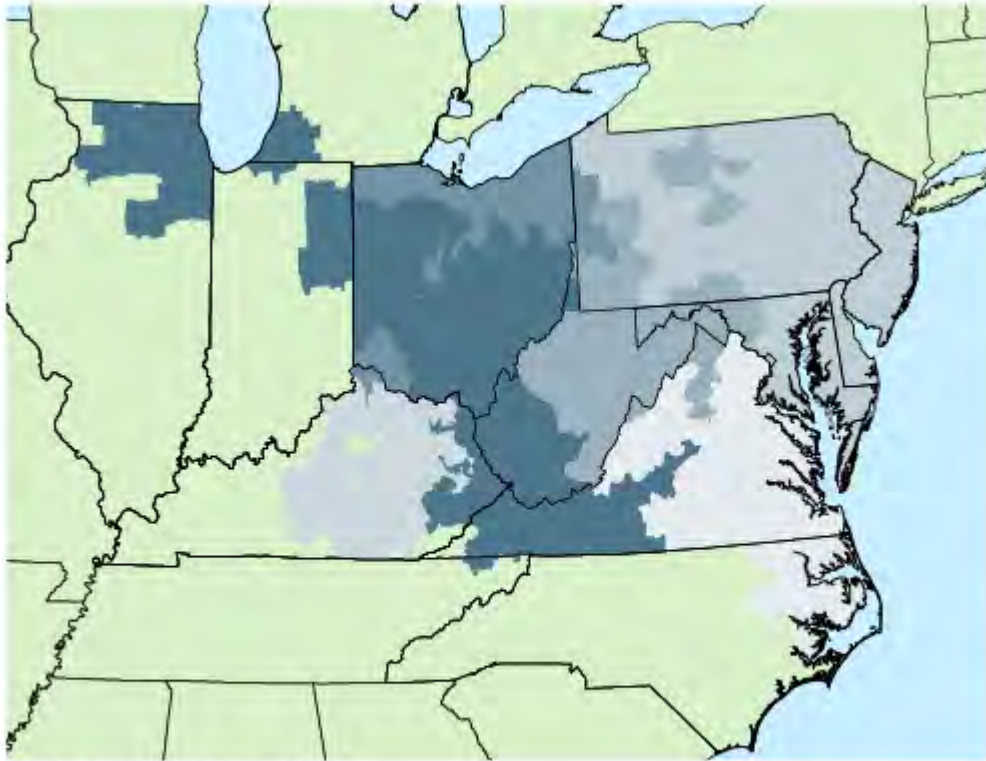


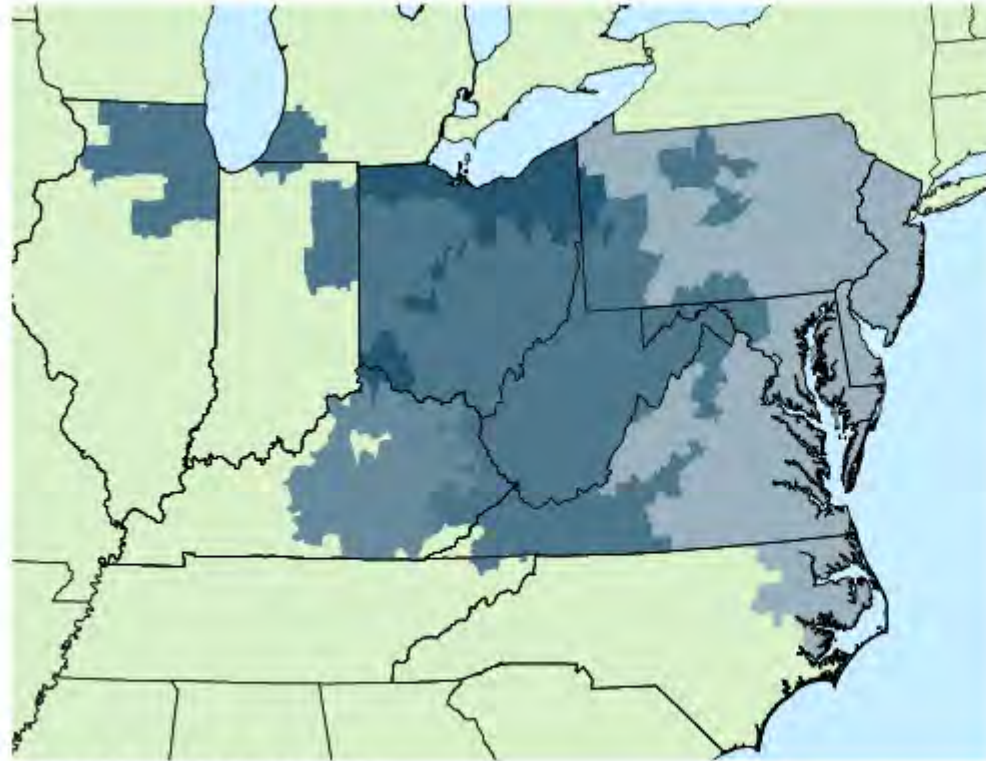


2015 Cold Weather Performance

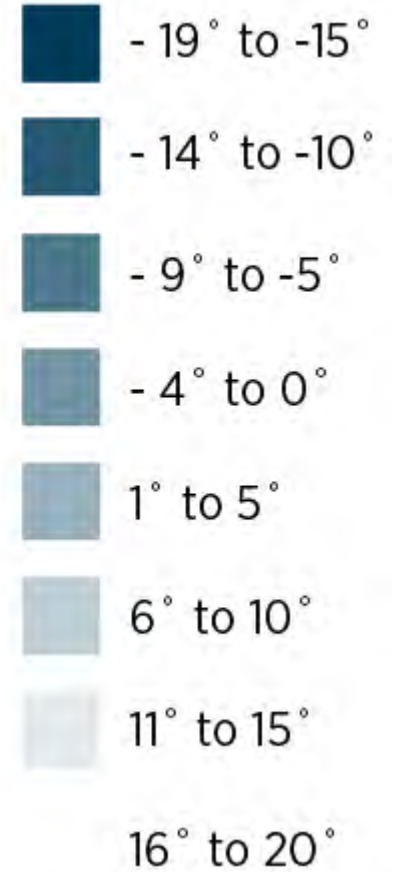
Chantal Hendrzak, Operations
Support

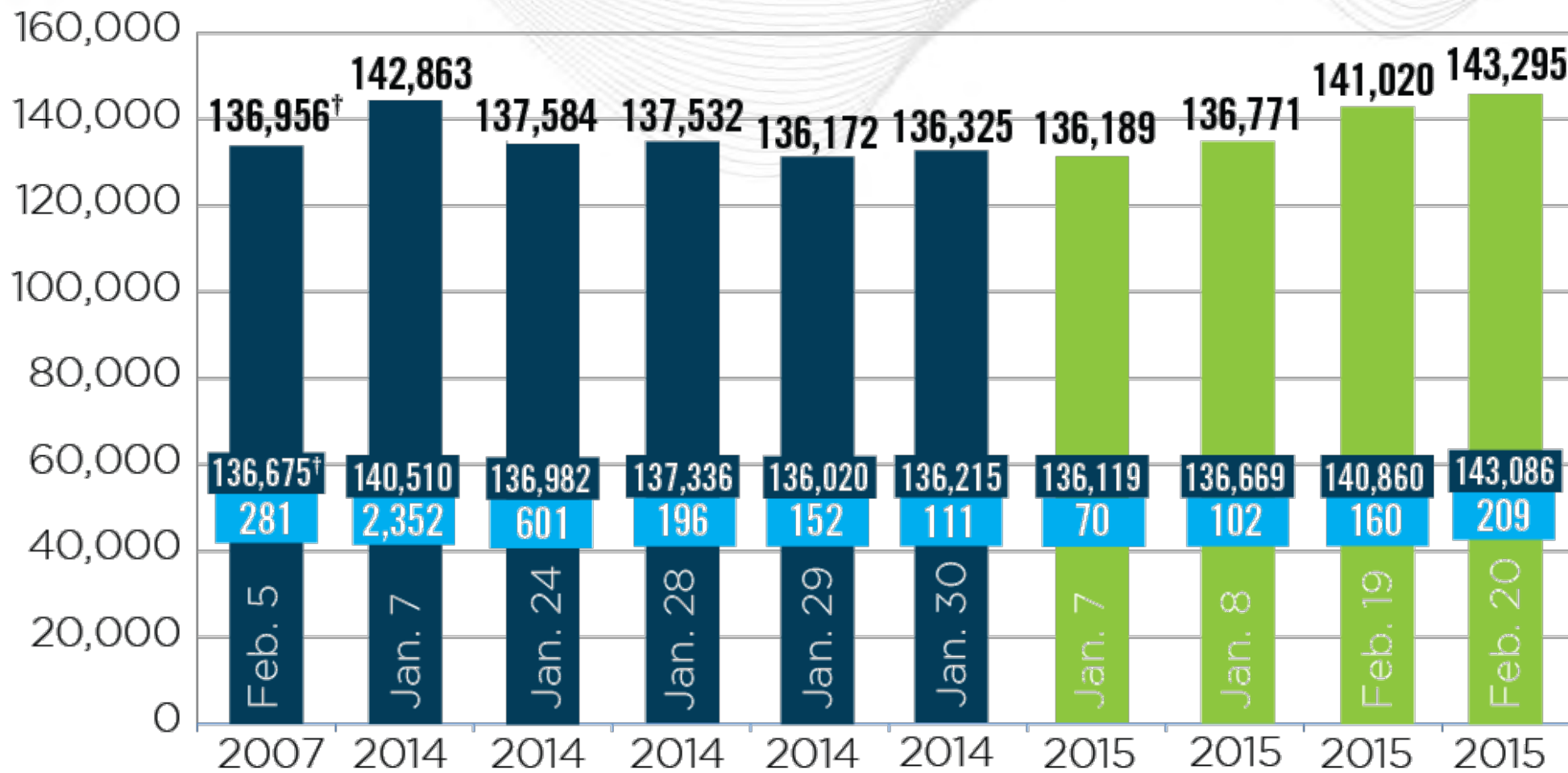


Jan. 2015



Feb. 2015





December through February Winter Season

[†]Includes incident not-yet integrated zones.

■ Preliminary

■ Demand Reponse



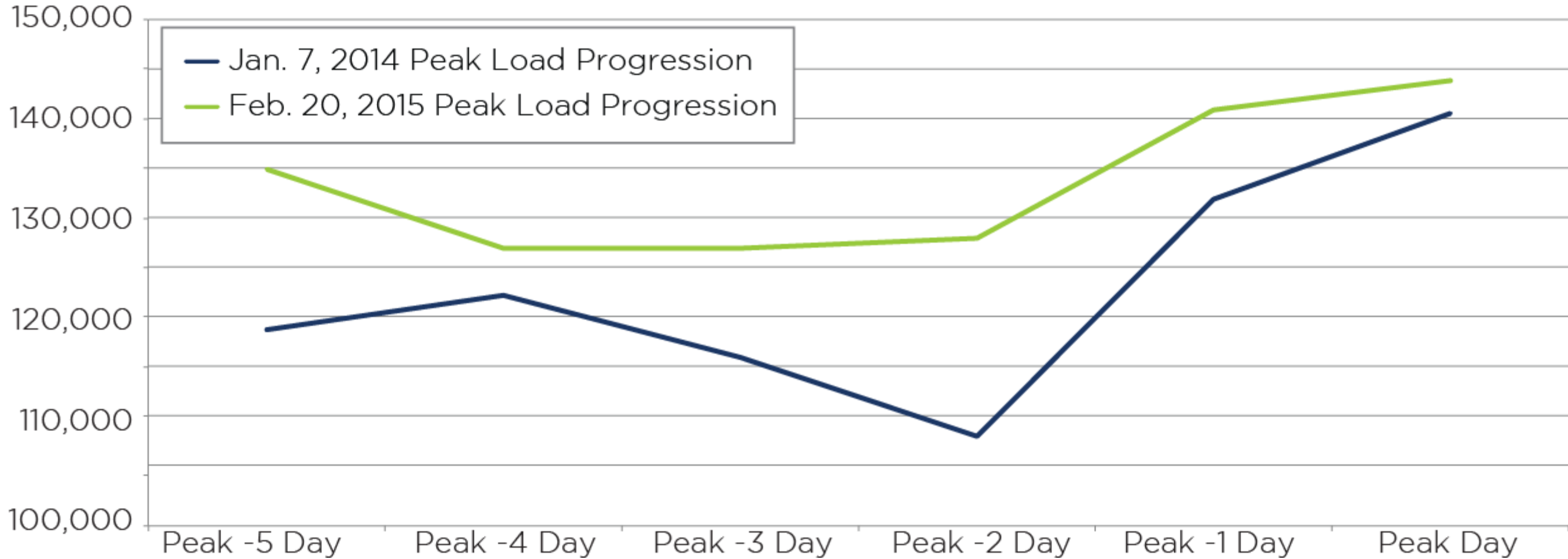
Wind Chill Comparison 2014 and 2015 (Fahrenheit)

	January 2014		February 2015		
	Lowest Temp Fahrenheit	Lowest Effective Temperature (wind chill)	Lowest Temp	Lowest Effective Temperature (wind chill)	Effective Degrees warmer(+)/colder (-) in Feb 2015 vs Jan 2014
Philadelphia	4	-10	2	-8	2
Washington, DC	7	-2	6	-3	-1
Richmond	4	0	5	0	0
Cleveland	-11	-30	-13	-14	16
Columbus	-11	-24	-10	-10	14
Lexington	-5	-14	-13	-18	-4
Chicago	-16	-31	-8	-17	14

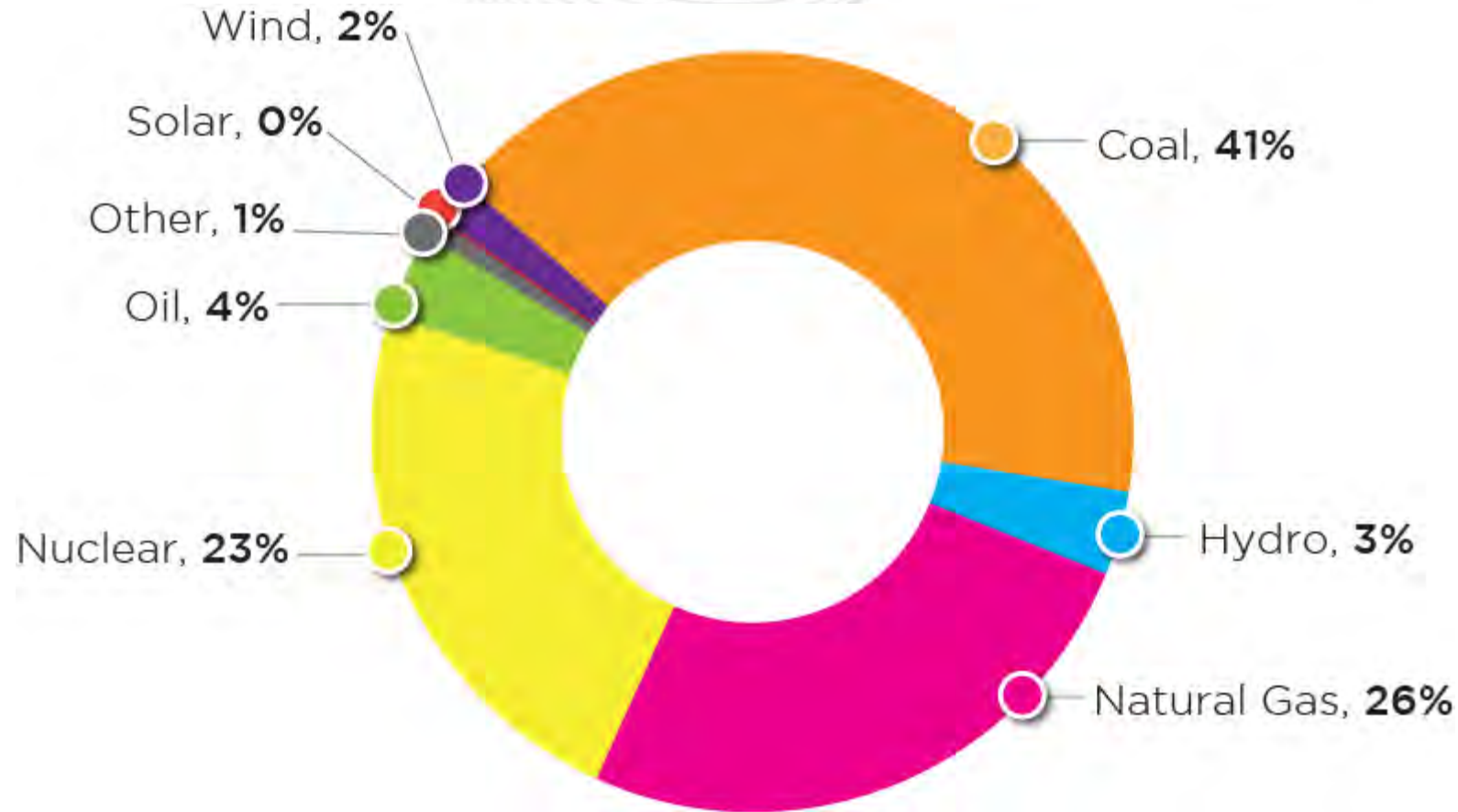


Day to Day Peak Load Progress for 2014 and 2015

Megawatt

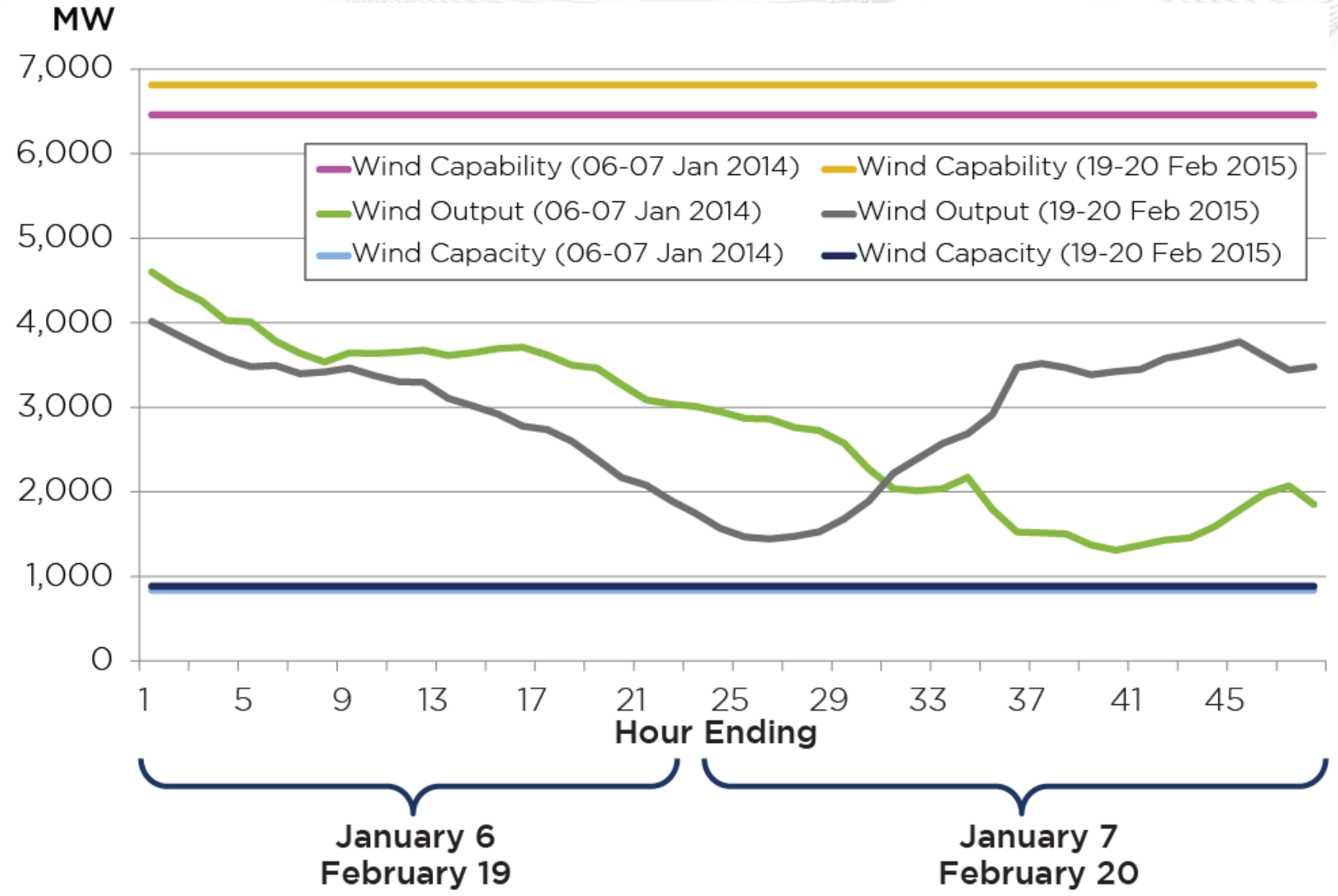


Breakdown of generation online for all fuel types during the Feb. 20, 2015 peak

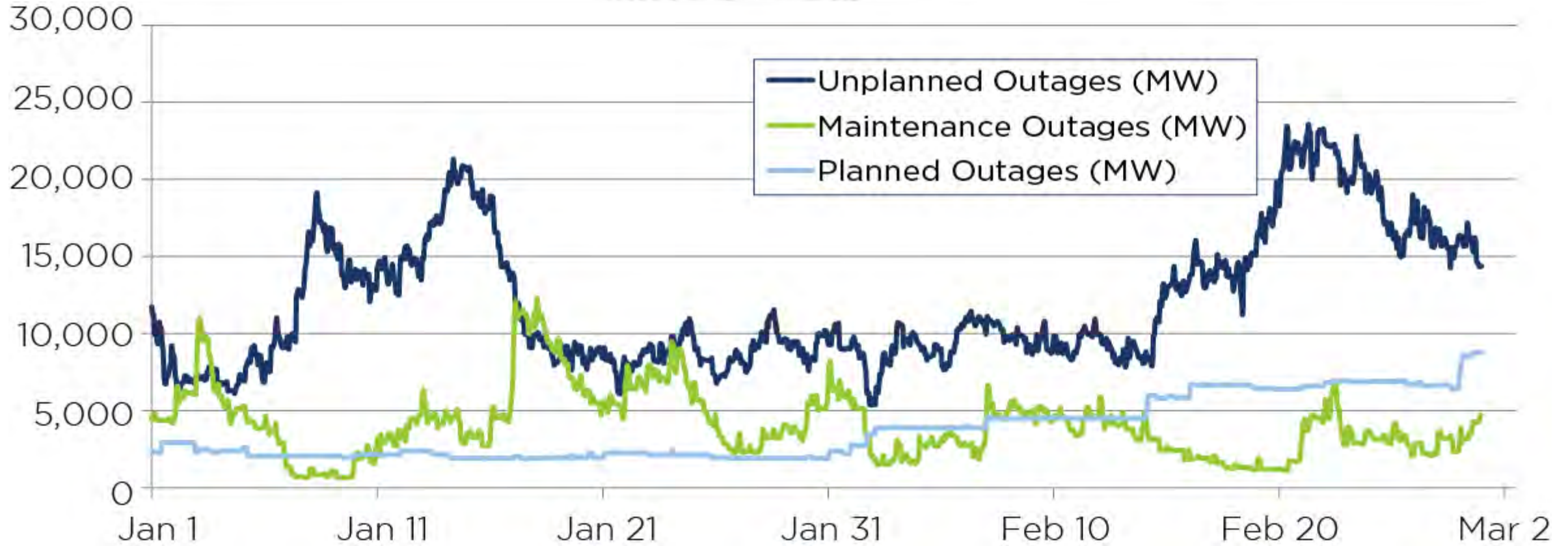




Wind Generation Performance at Peaks (2014 Vs 2015)

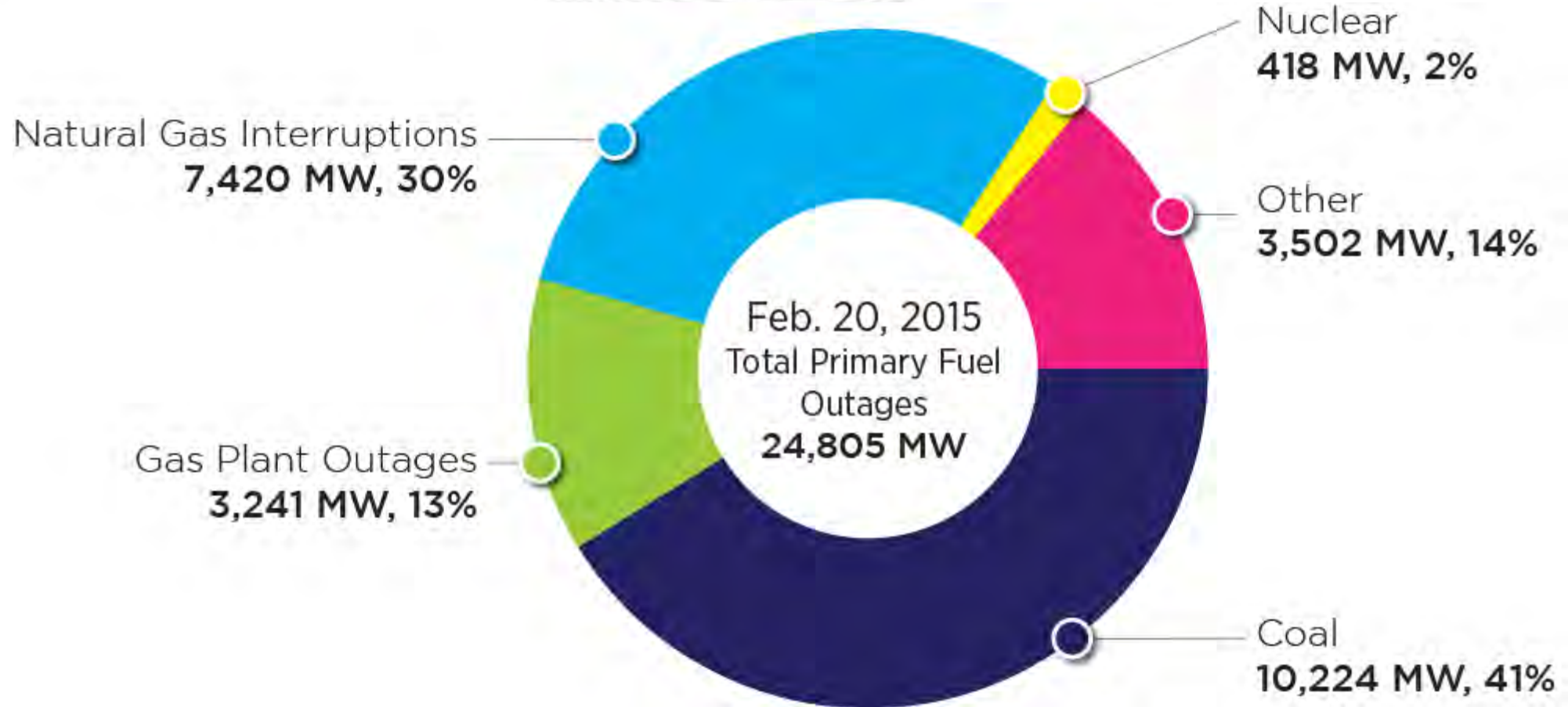


Forced Outage Peaks: January – February 2015

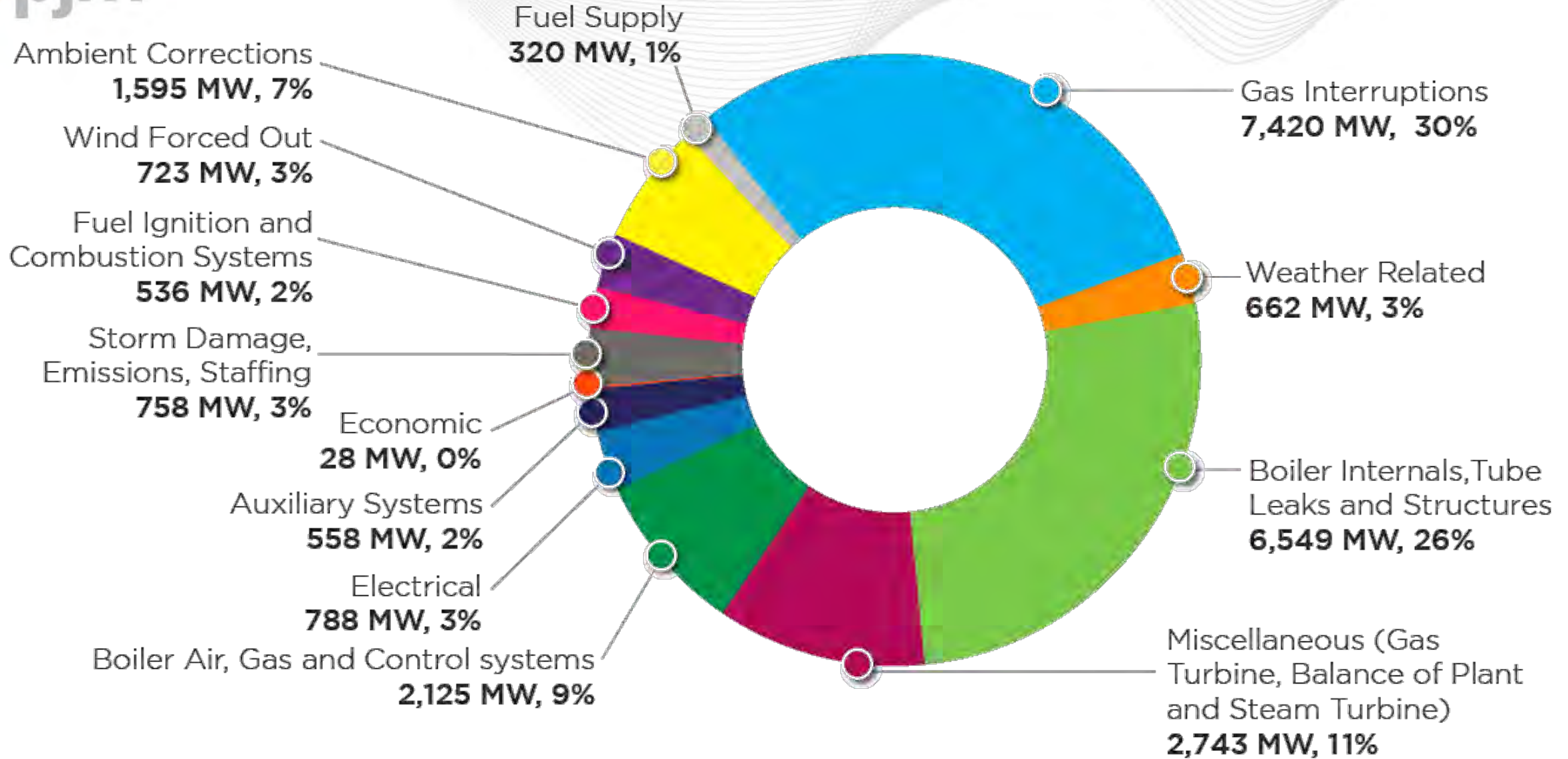




Outages by Primary Fuel Feb. 20, 2015

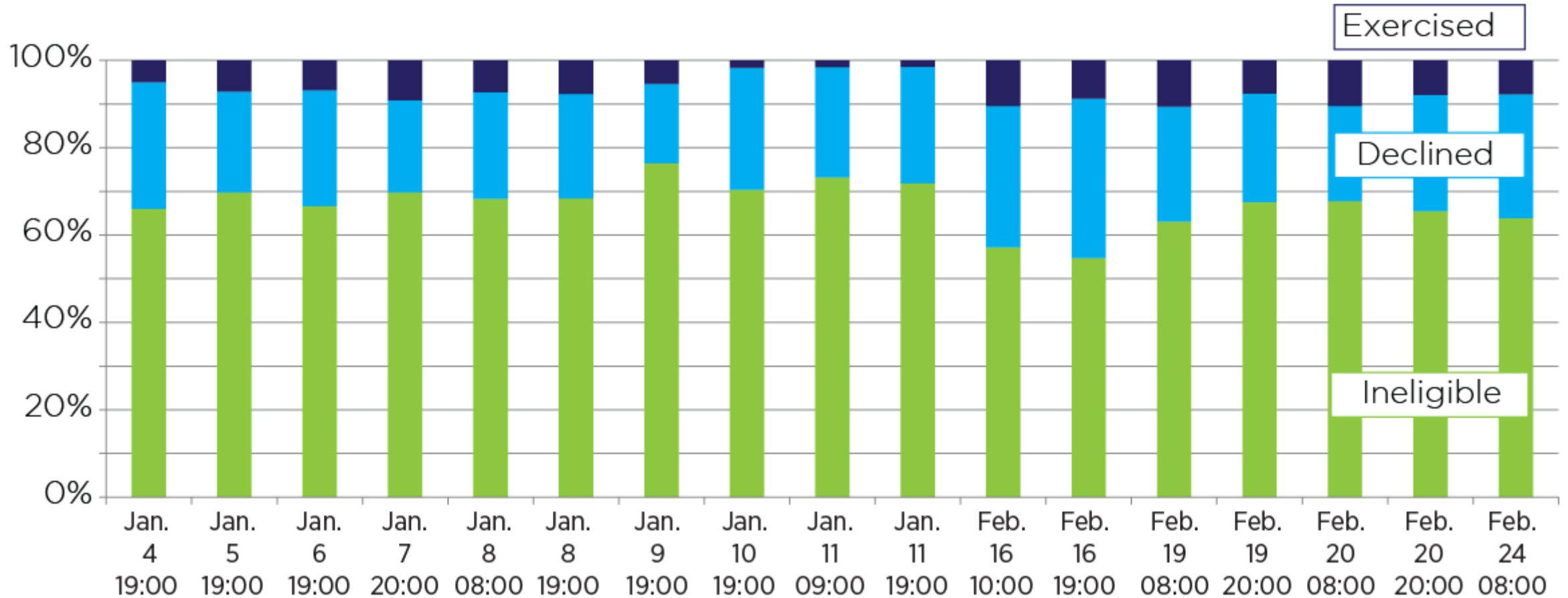


Causes of Forced Outages (Feb. 20, 2015, 8:00)





Percentage Breakdown of Forced Outages (Jan. & Feb. 2015)

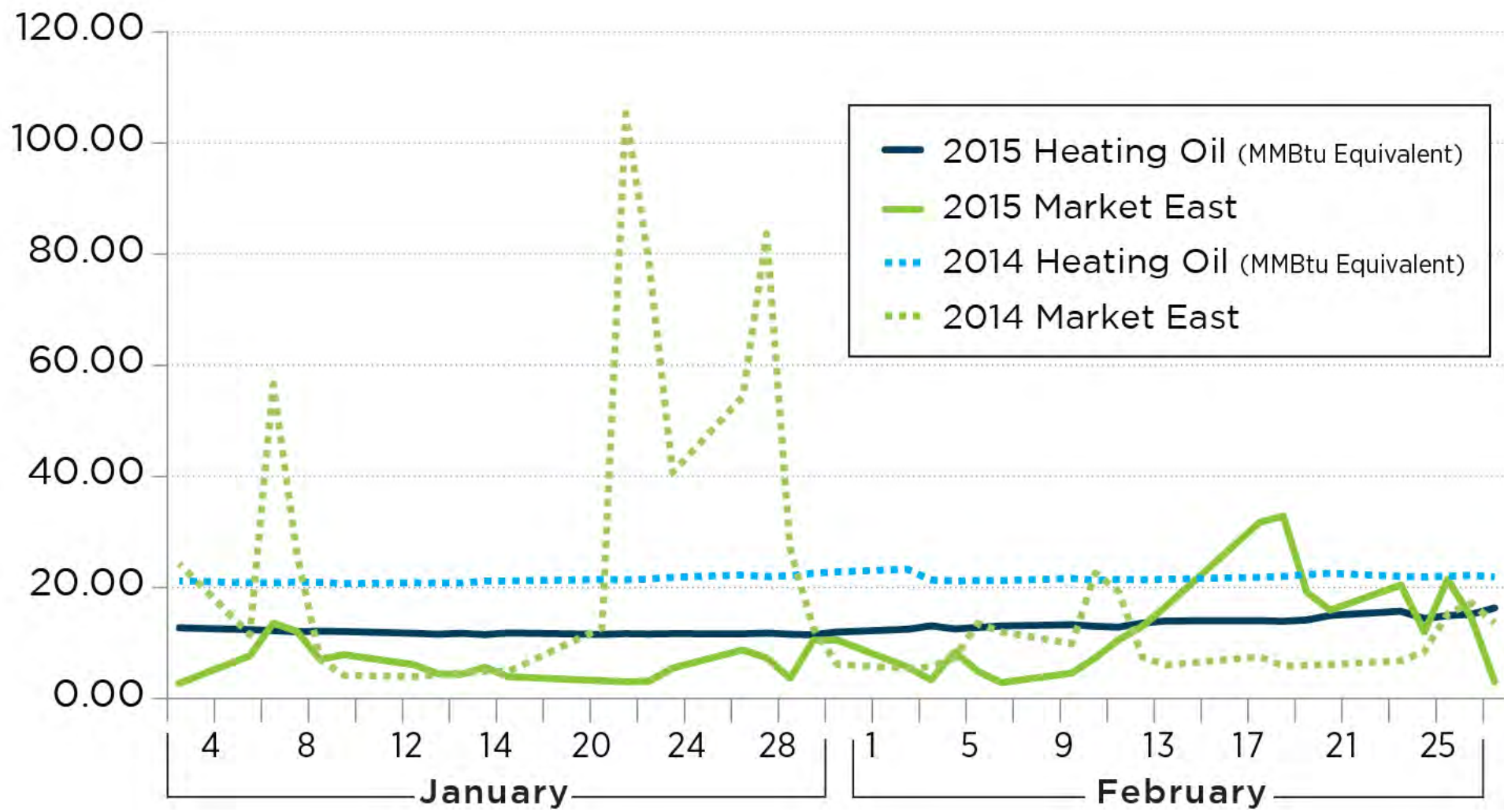




Number of Effective Operational Flow Orders in PJM

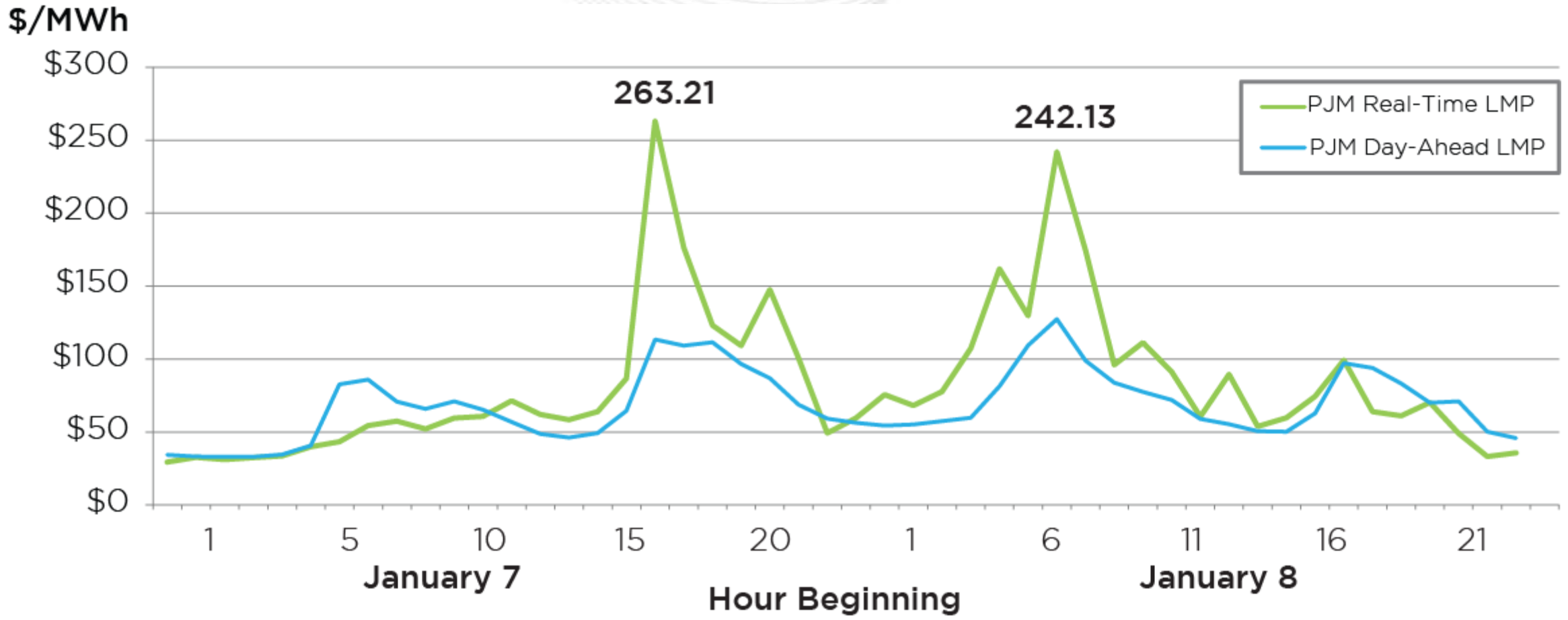
Pipeline	# of Effective OFOs (or Force Majeure) in PJM			
	Jan-14	Jan-15	Feb-14	Feb-15
Transco	4	3	1	2
TCO	0	1	0	0
ANR	0	0	0	0
NGPL	2	1	0	1
TETCO	3	1	0	2
TGP	0	4	0	2
DTI	4	3	0	1
Total	13	13	1	8

\$/MMBtu



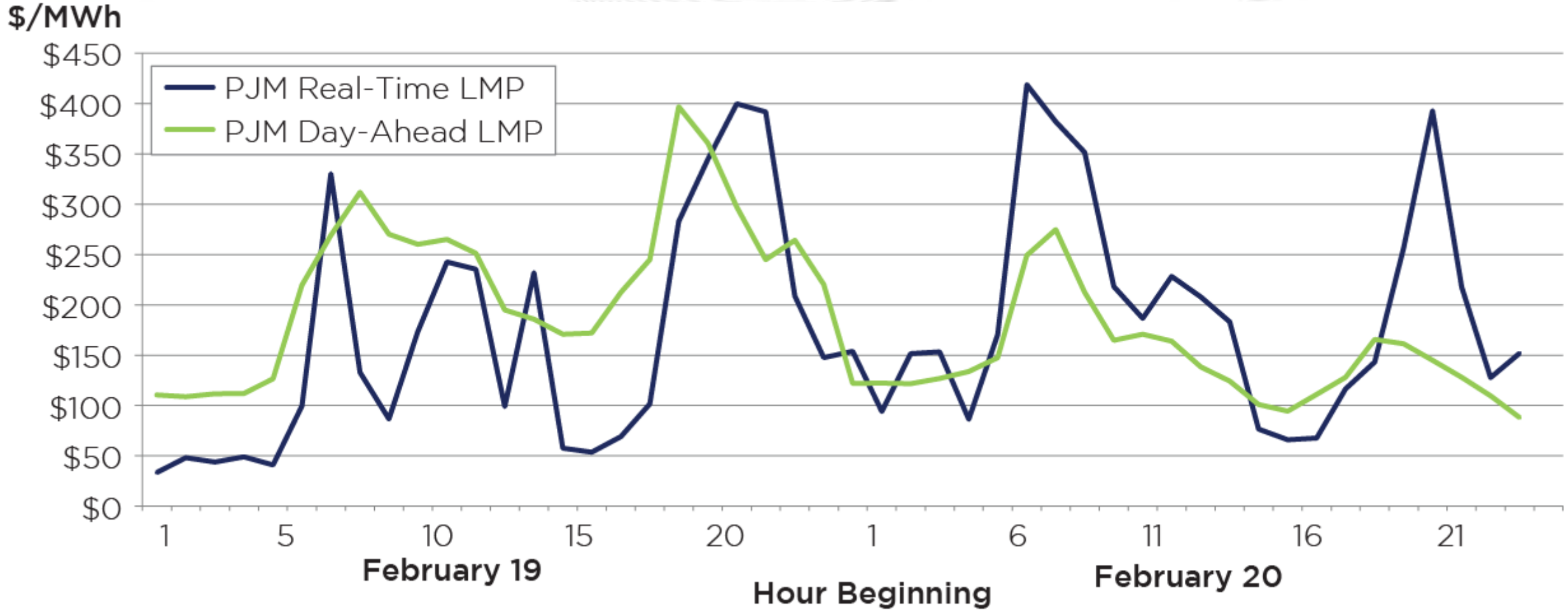


Locational Marginal Pricing Jan. 7 and Jan. 8, 2015





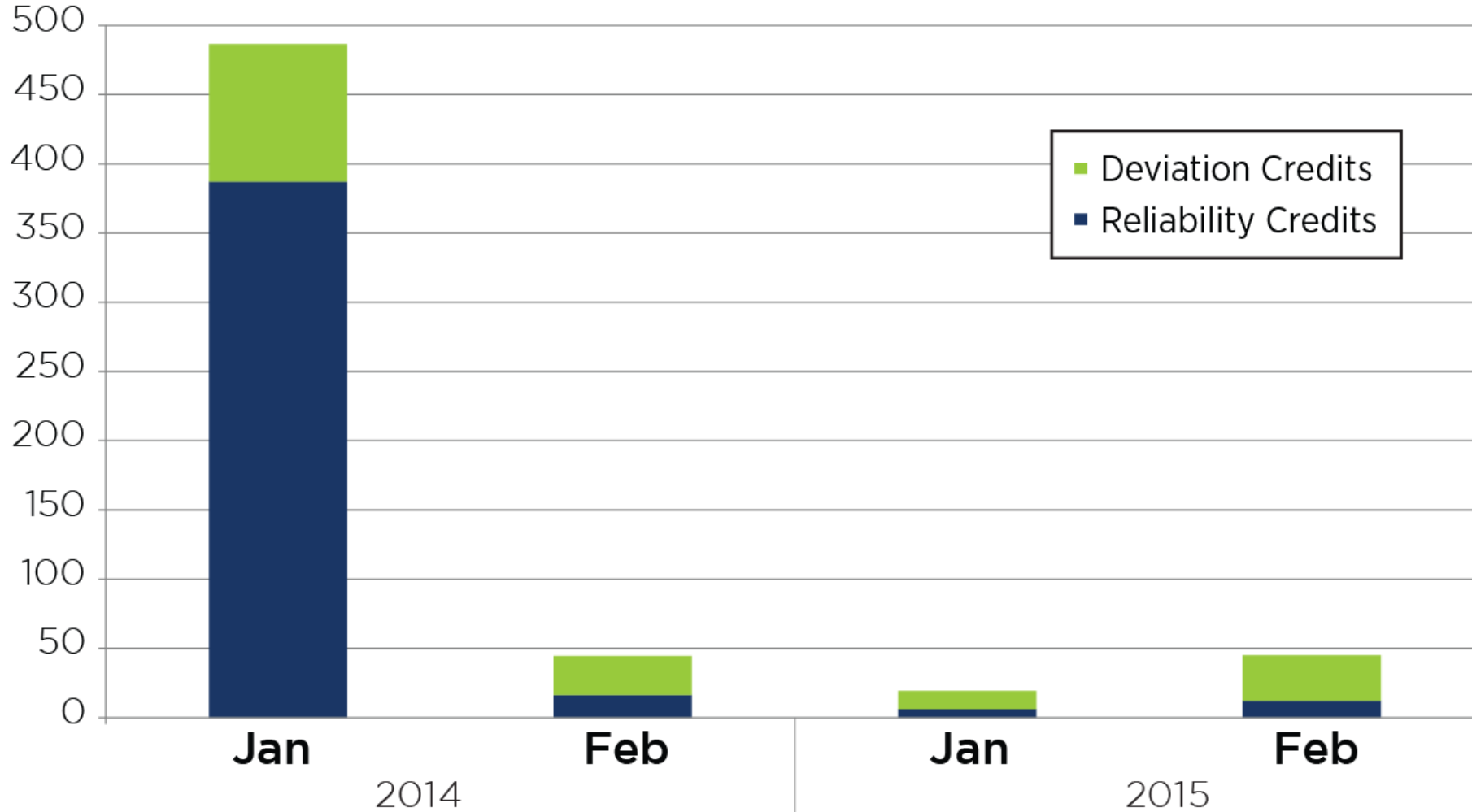
Locational Marginal Pricing Feb. 19 and 20, 2015



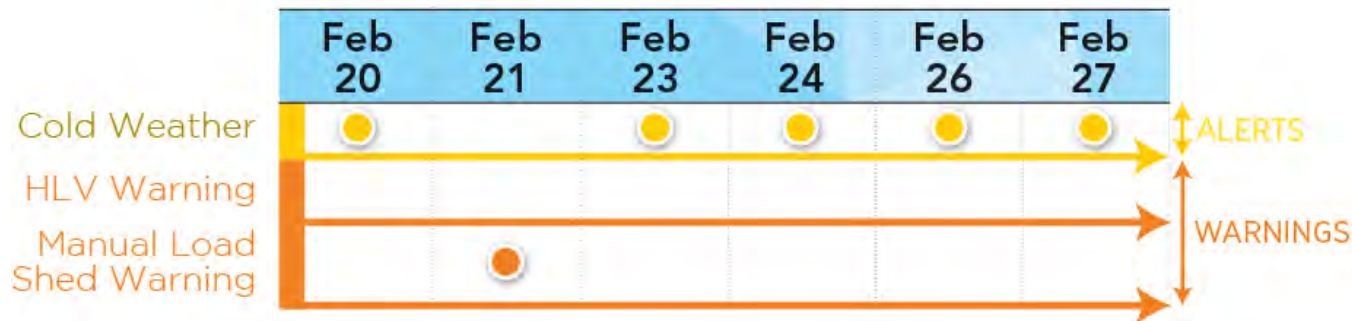
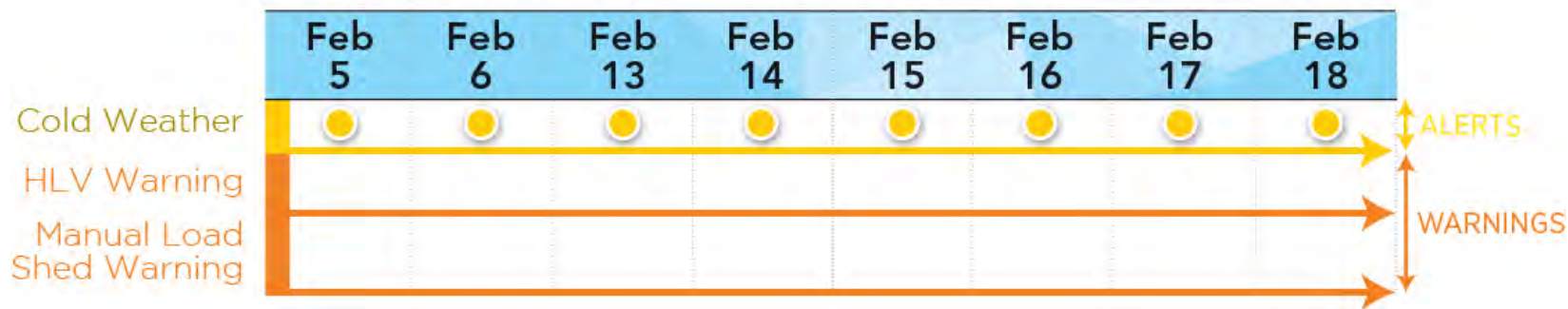
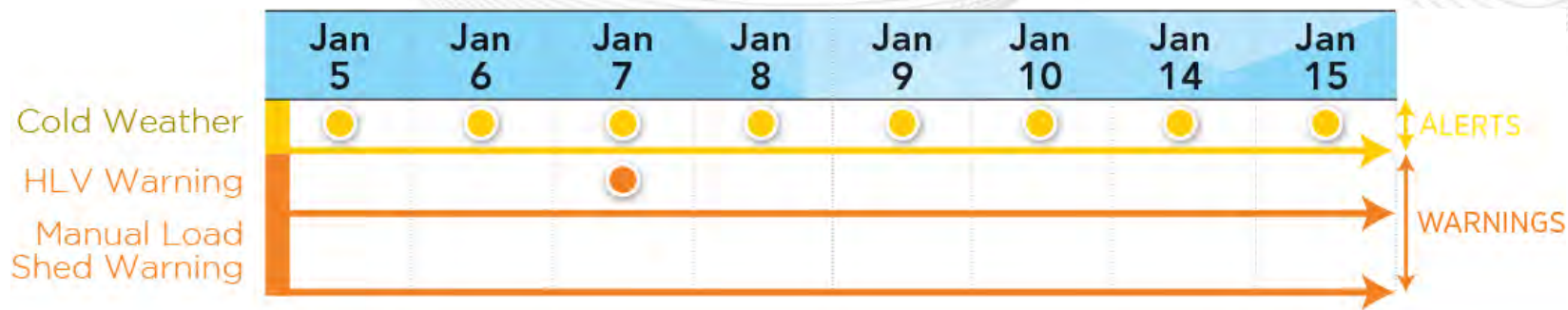


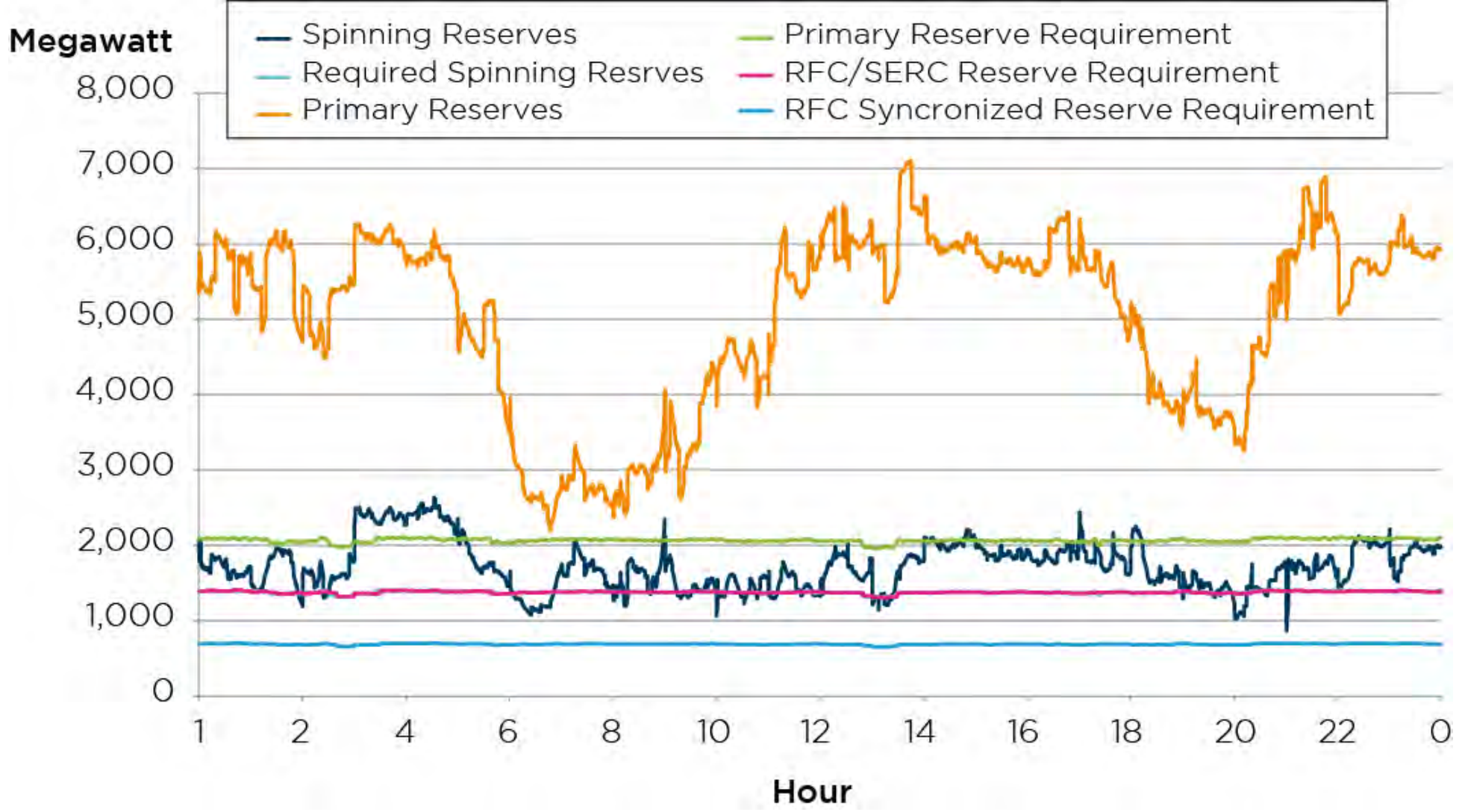
Comparison of 2014 to 2015 Operating Reserves Credits

\$ Million



Emergency Procedures in January and February 2015







2015 Recommendations

Category	Recommendation	Status
Capacity Performance	Continue with the implementation of the Capacity Performance proposal to address resource performance incentives on a sustained basis.	On May 13, 2015, PJM answers protests regarding PJM's April 10 response to FERC's March 31 Deficiency Notice.
Gas / Electric Coordination	Continue to improve coordination between the gas and electric industries: <ol style="list-style-type: none"> 1. Implement changes to better align the scheduling processes. 2. Offer even more flexibility in changing unit offers during the electric day, as discussed in the OC working group. 3. Improve transparency of generation within gas local distribution companies. 	PJM has 90 days from Federal Register publication of the April 16, 2015 Final Rule to respond regarding how it intends to meet the requirements.
Generator Operational Parameters	Continue to improve the ability for generators to communicate operational parameters to PJM. <ol style="list-style-type: none"> 1. Improve the ability for PJM tools to better capture and log generator flexibility and unit status information for use in real-time operations as well as after-the-fact analysis. 2. Improve PJM processes to review and assess generator parameters, particularly when they may differ from financial or settlements parameters. 	PJM members recently proposed a problem statement to better address generator offer flexibility.
Cold Weather Unit Preparation	Build upon the success of the cold weather unit exercise and preparation checklist to improve the value while balancing the costs.	PJM is discussing next steps for Cold Weather Preparation in the Operating Committee.
Energy Market Uplift Reduction	Continue to investigate methods and procedures for reducing the amount of uplift to be paid.	Through the existing Energy Market Uplift Senior Task Force, PJM and its stakeholders continue to work on solutions to reduce uplift.