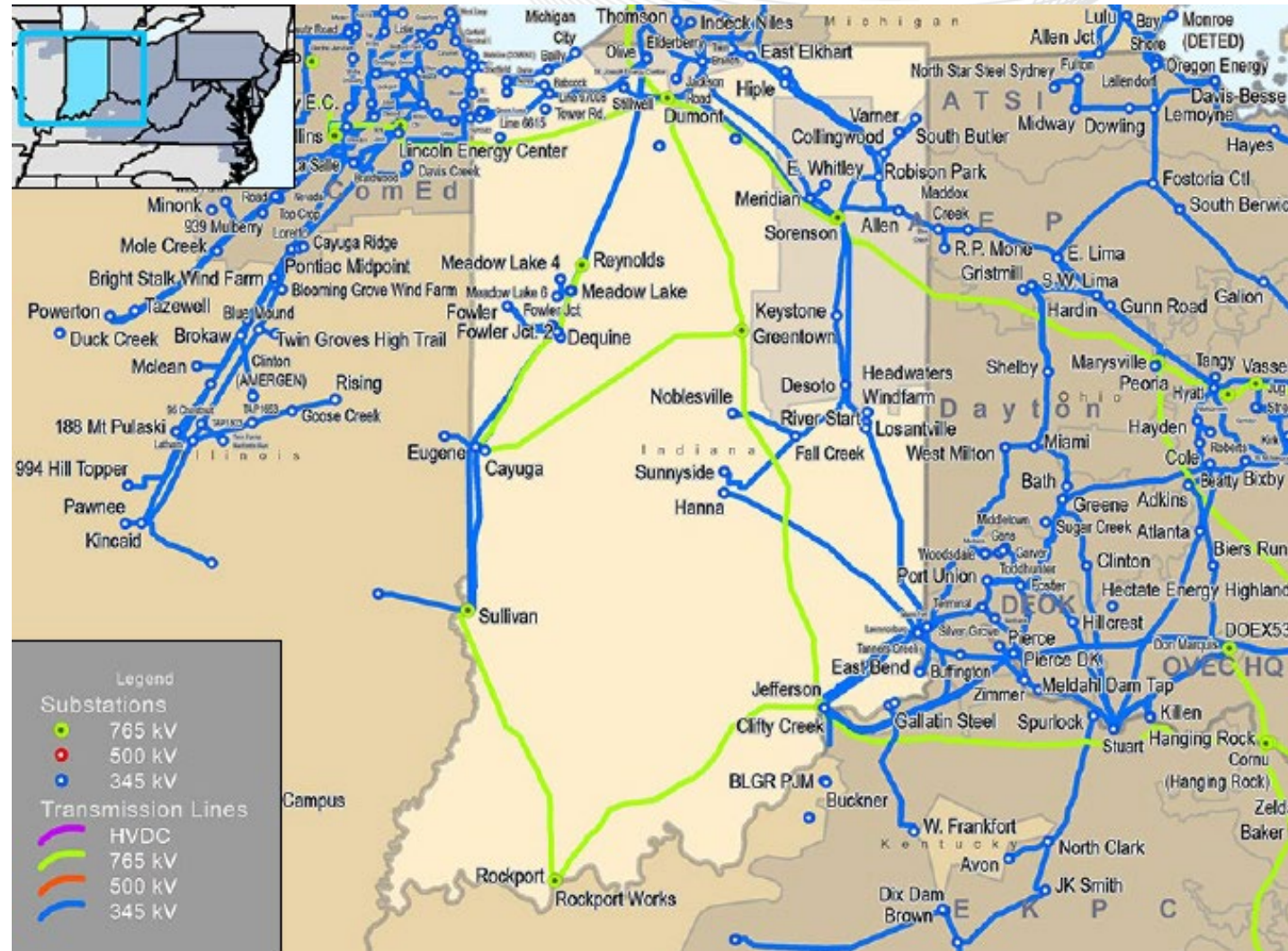




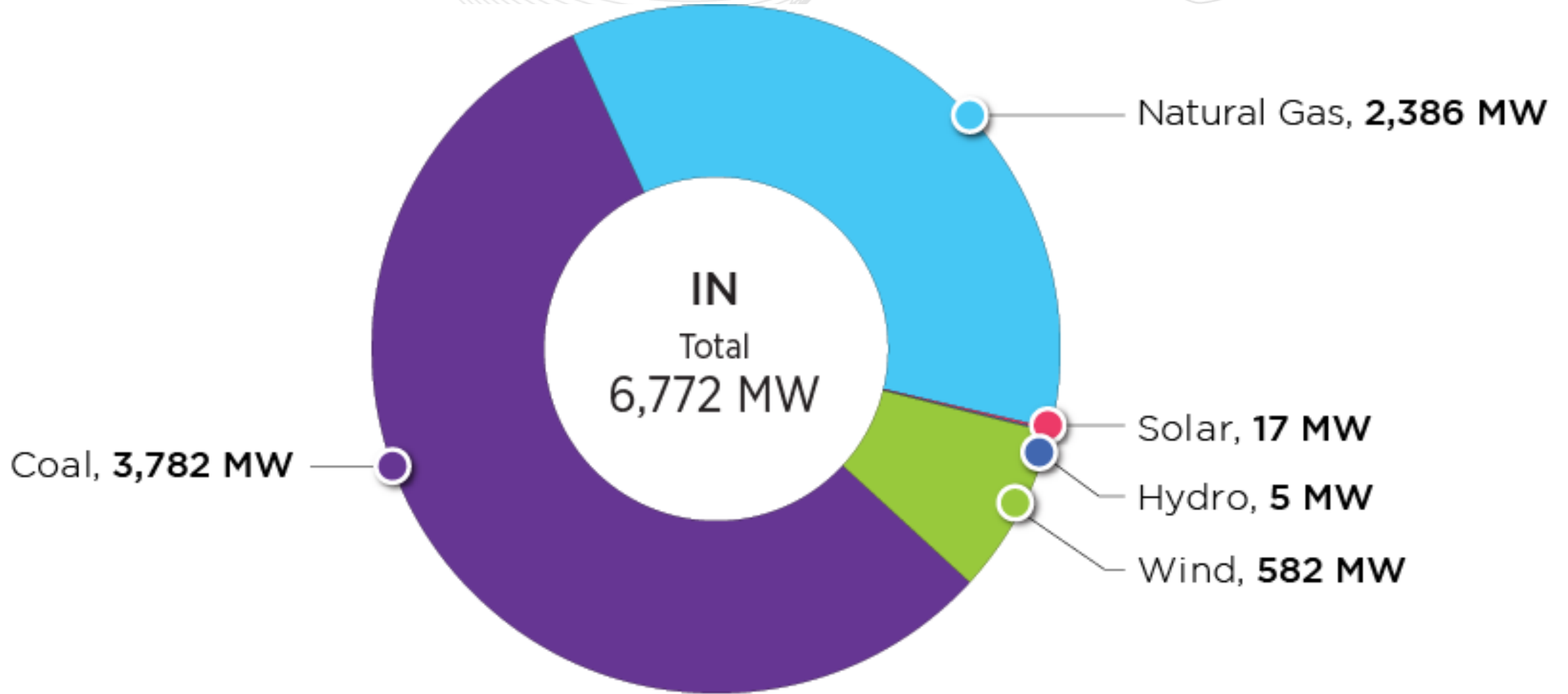
Indiana Utility Regulatory Commission 2022 Summer Reliability Forum

Mike Bryson
Sr. VP, Operations, PJM
April 2022



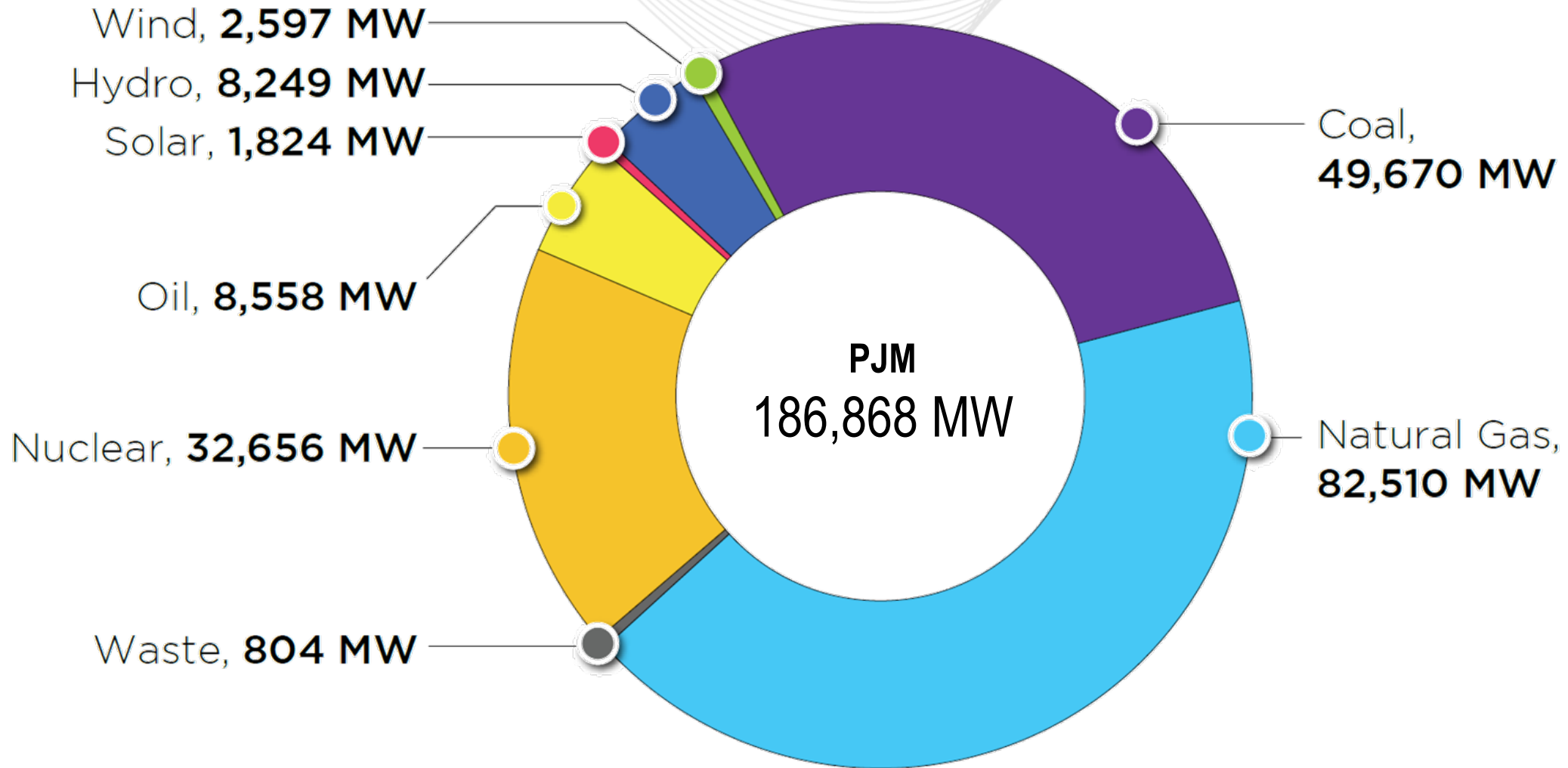
The PJM service area in Indiana is the AEP zone and is represented by the shaded portion of the map.

PJM operates transmission lines that extend beyond the service territory.



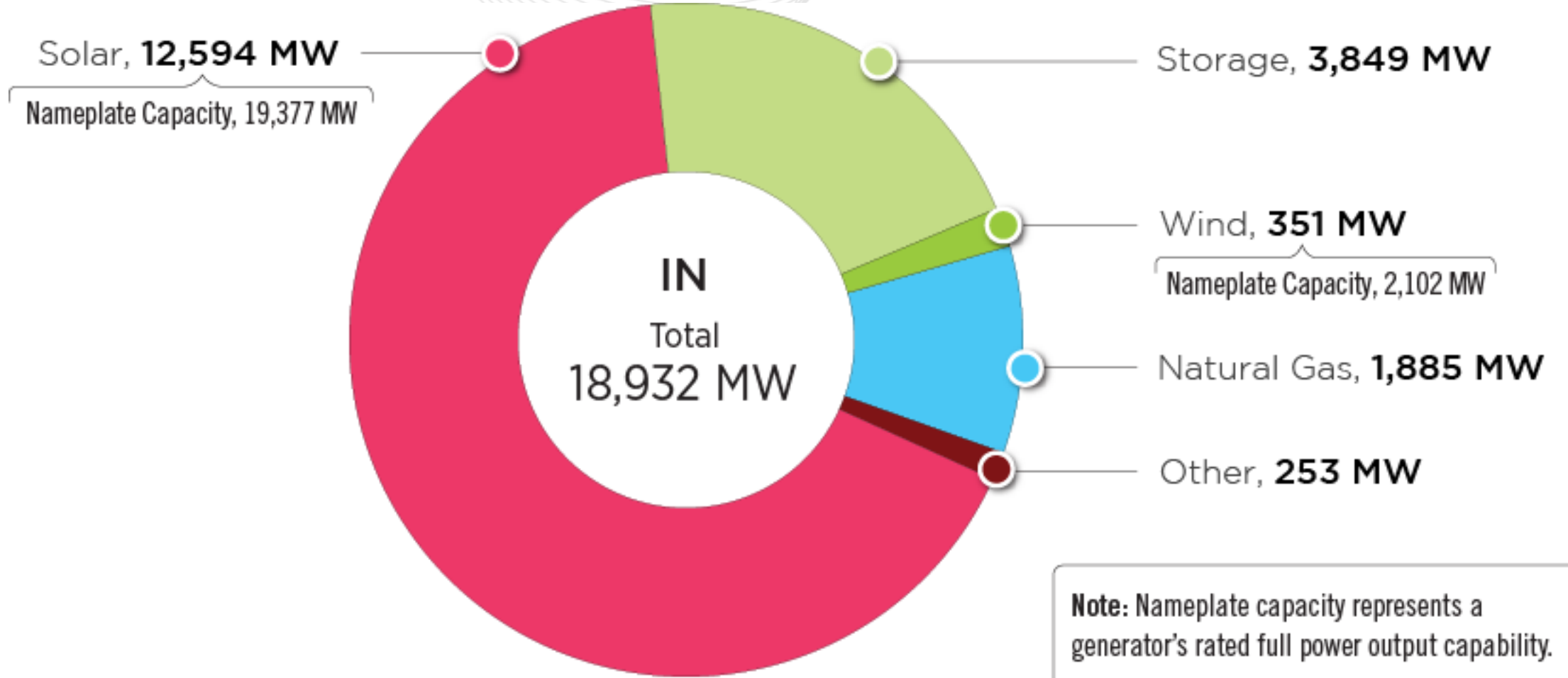
PJM – Existing Installed Capacity

(CIRs – as of Dec. 31, 2021)



Indiana – Queued Capacity (MW) by Fuel Type

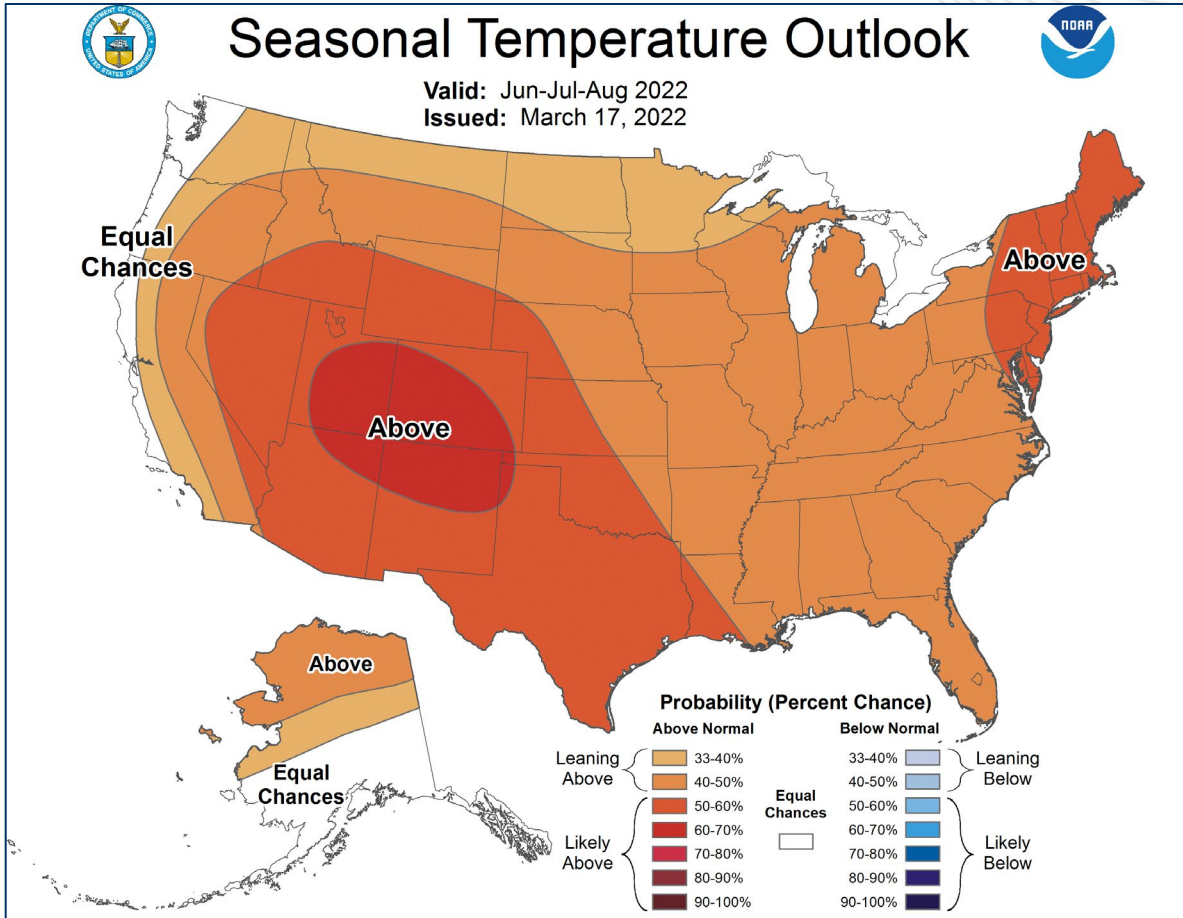
(Requested CIRs – as of Dec. 31, 2021)



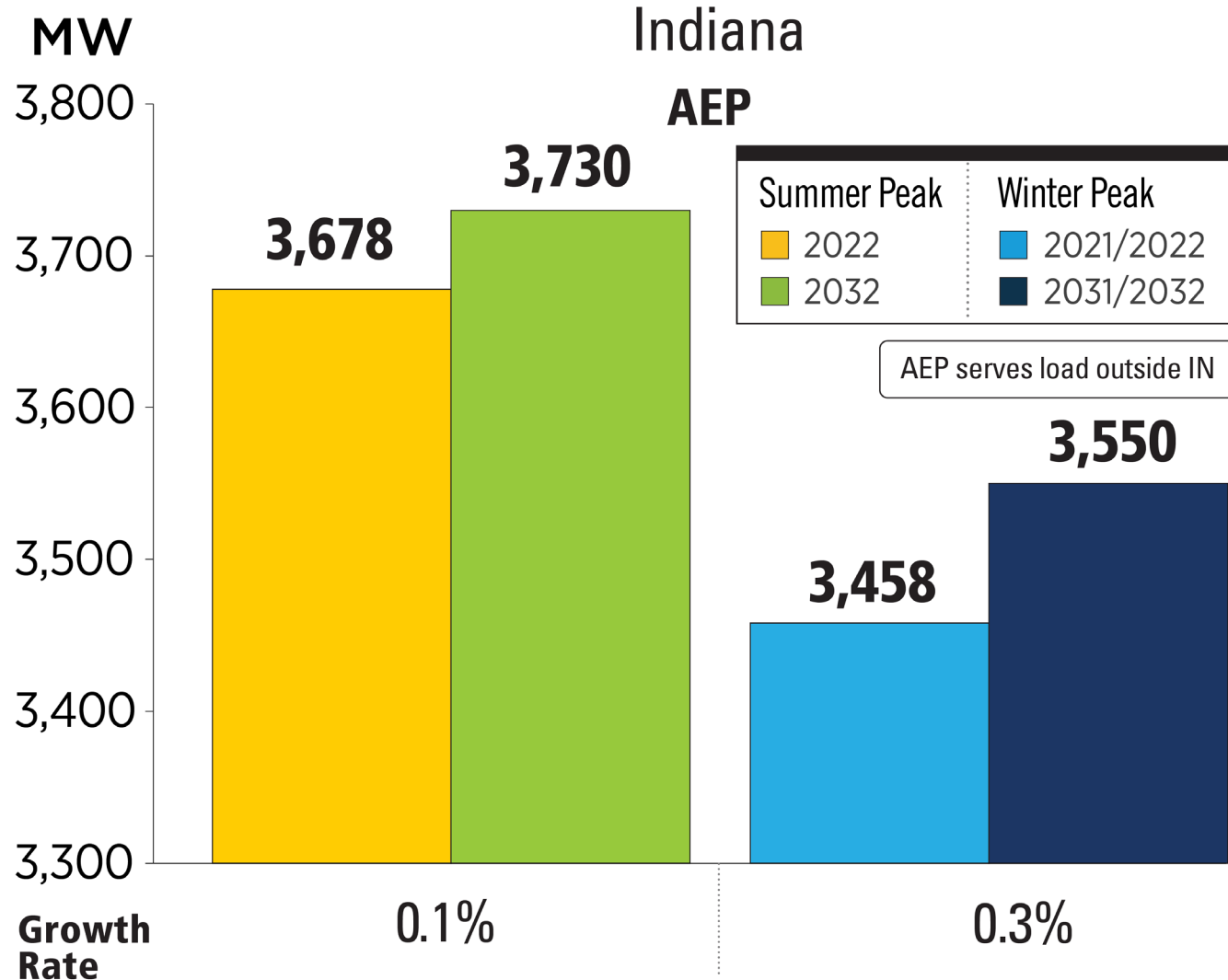


PJM

2022 Summer Outlook





- Above-normal temperatures are likely this summer, especially in the Mid-Atlantic region of PJM
- Forecast influenced by warm ocean waters in Atlantic and western Pacific
- Recent trends support a warmer-leaning forecast
 - Six of the last ten years rank in the top-10 hottest back to 1950



PJM RTO Summer Peak		PJM RTO Winter Peak	
2022	2032	2021/2022	2031/2032
149,938 MW	154,381 MW	132,102 MW	141,516 MW
Growth Rate 0.4%		Growth Rate 0.7%	

The summer and winter peak megawatt values reflect the estimated amount of forecasted load to be served by each transmission owner in the noted state/district. Estimated amounts were calculated based on the average share of each transmission owner's real-time summer and winter peak load in those areas over the past five years.

Summer 2022 	DEMAND			PJM Installed Capacity > 185,000 MW
	Forecast Summer ~148,938 MW	Summer Study Average 153,500 MW	Summer Study High 156,928 MW	

Relative Peaks 	2021 Summer Peak (August '21) ~148,770* MW	All-Time Summer Peak (2006) 165,563 MW
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** Total energy use during the summer of 2020 was dampened due to impacts surrounding the COVID-19 pandemic.*

Perform a summer reliability assessment to include any additional sensitivity analysis required

Coordinate summer assessments with neighboring systems (NYISO, MISO, TVA and VACAR)

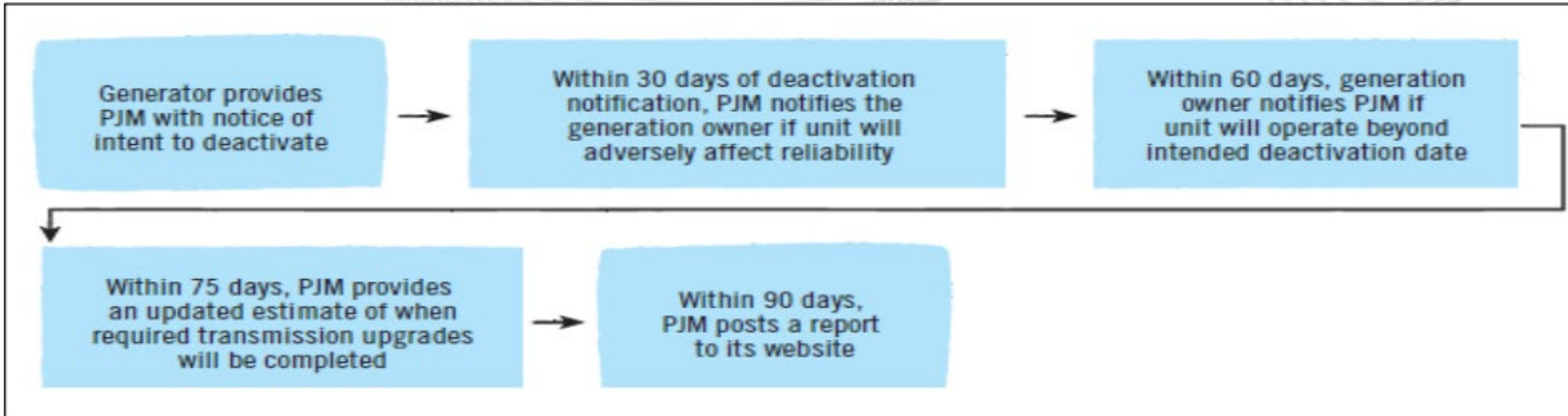
Conduct emergency procedures drill to prepare PJM staff and PJM stakeholder staff for any emergency operations

Ongoing pandemic planning, coordination and communication

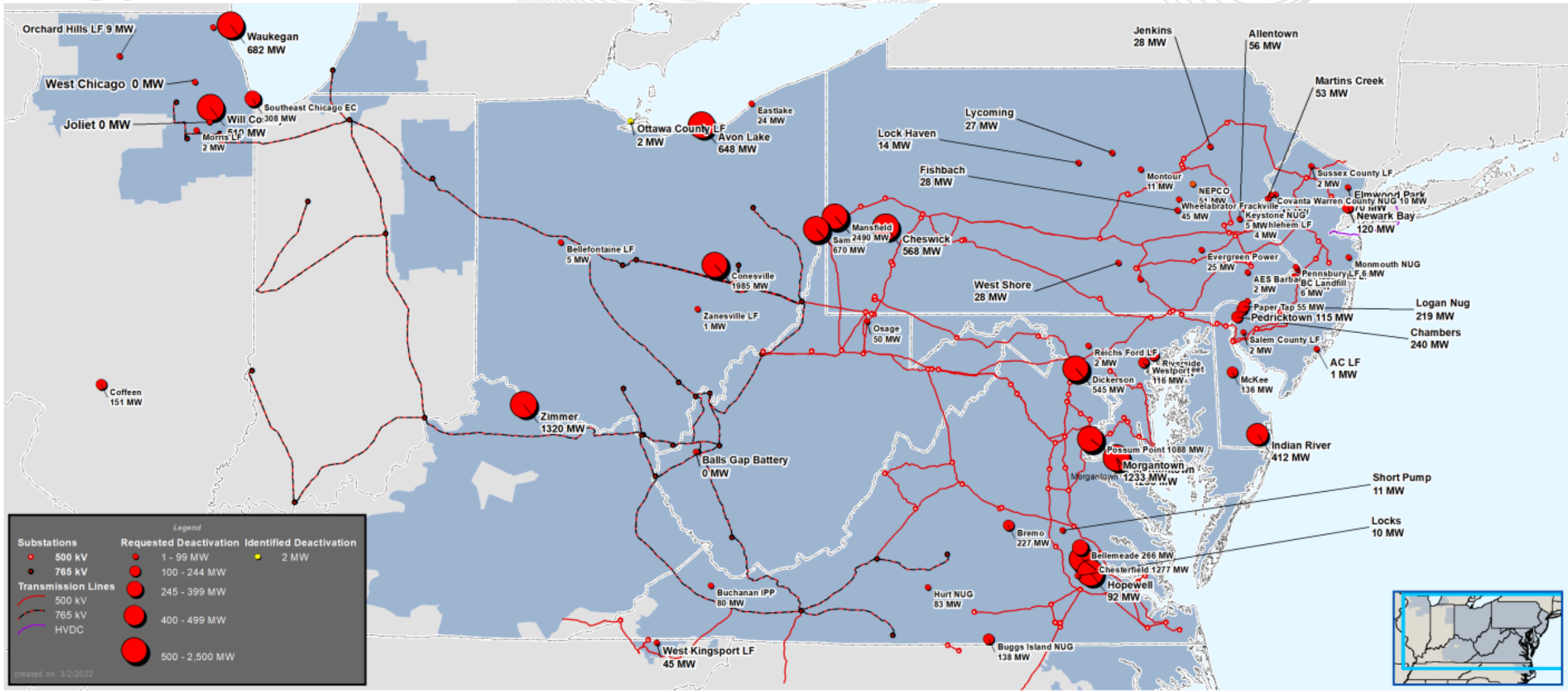


PJM

Generation Deactivations



- PJM studies each generation deactivation for reliability impacts upon announcement.
- If a reliability concern is identified, we ensure the violation(s) can be mitigated through existing or proposed RTEP upgrades.
- If the upgrades cannot be built timely and there are no operational measures available, then we work with the generation owner to continue to operate beyond the proposed deactivation date. This is known as a “reliability must run” (RMR) request.



For More Information:

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