



PJM Summer Reliability Assessment Indiana Utility Regulatory Commission

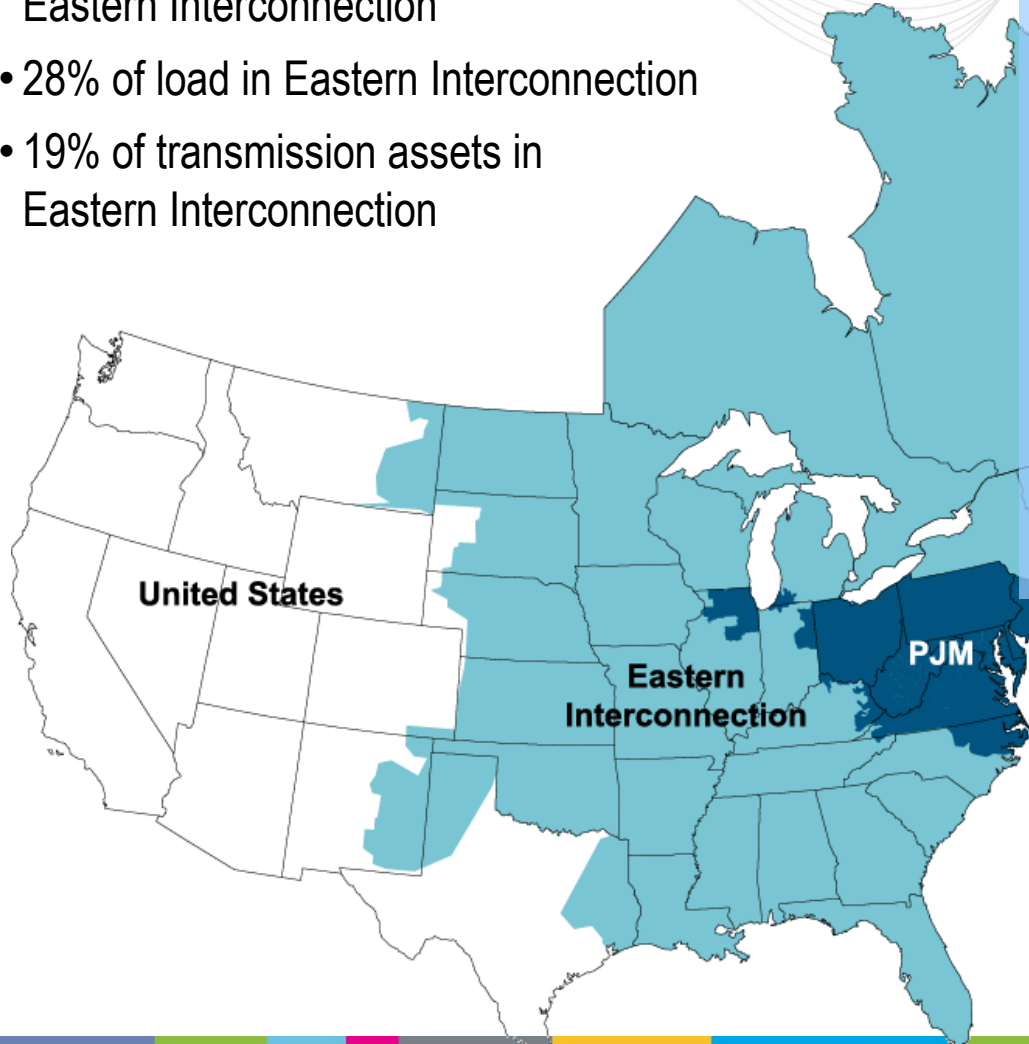
May 30, 2012

Richard Mathias

M. Helm

PJM Interconnection LLC

- 26% of generation in Eastern Interconnection
- 28% of load in Eastern Interconnection
- 19% of transmission assets in Eastern Interconnection



KEY STATISTICS

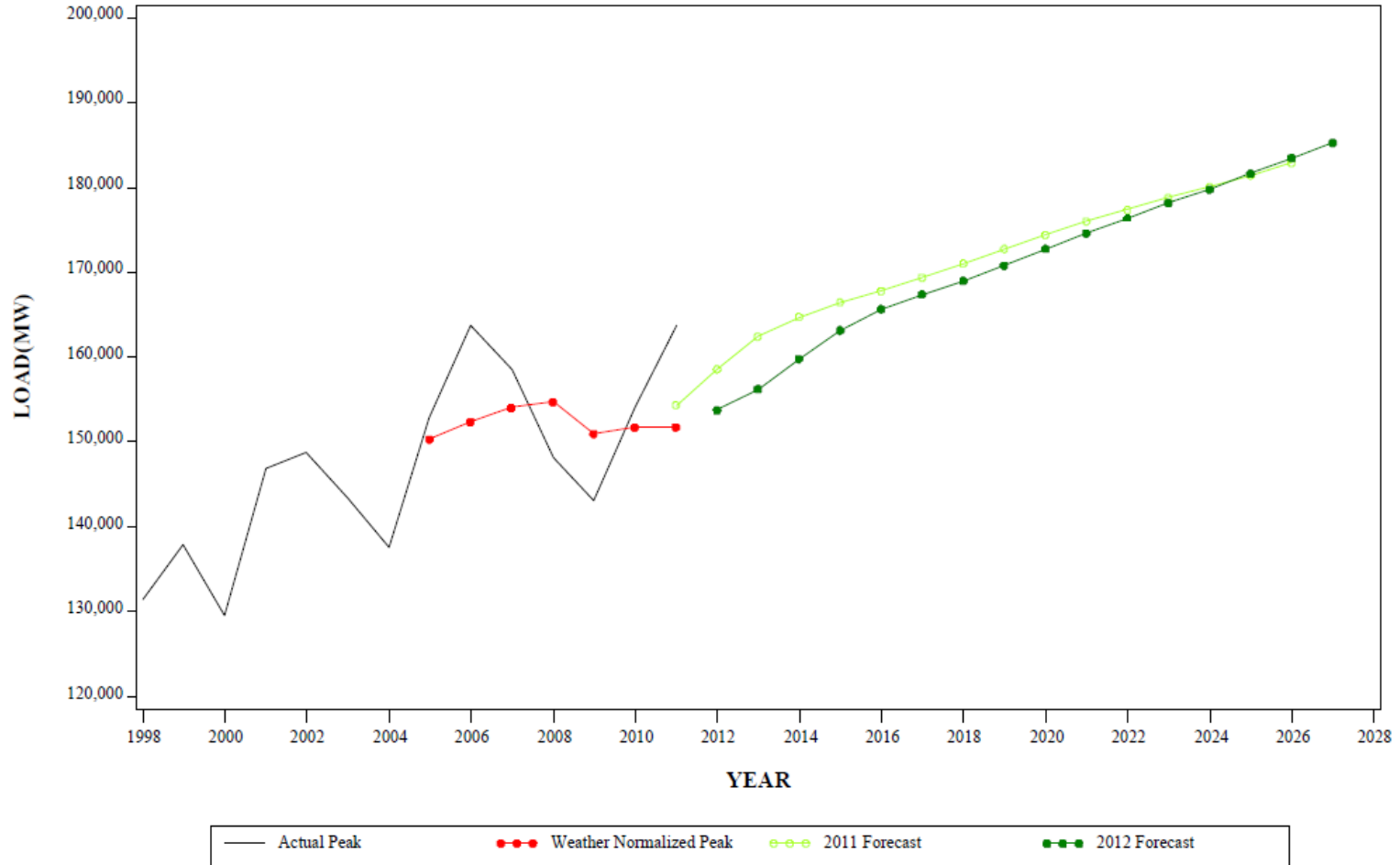
PJM member companies	750+
millions of people served	60
peak load in megawatts	163,848
MWs of generating capacity	185,600
miles of transmission lines	65,441
GWh of annual energy generation	832,331
sources	1,365
square miles of territory	214,000
area served	13 states + DC
Internal/external tie lines	142

**21% of U.S. GDP
produced in PJM**

As of 1/4/2012

- PJM expects to be able to reliably serve expected peak loads—peak loads are expected to be slightly higher this summer vs. last summer
- Demand response commitments may be slightly lower

SUMMER PEAK DEMAND FOR PJM RTO GEOGRAPHIC ZONE



2012 (with DEOK)

Forecast Load (MW) Total	Demand Response and Energy Efficiency (MW)	Forecast Load Less Demand Response (MW)	Installed Generation Capacity (MW)	Reserve Margin (MW)	Reserve Margin	Required Reserve Margin
153,780	10,230 ¹ (est.)	143,550	185,180	41,630	29.0%	15.6%

¹Includes 654MW of Energy Efficiency

2011 (without DEOK)

Forecast Load (MW) Total	Demand Response and Energy Efficiency (MW)	Forecast Load Less Demand Response (MW)	Installed Generation Capacity (MW)	Reserve Margin (MW)	Reserve Margin	Required Reserve Margin
148,940	11,897	137,043	180,400	43,357	31.6%	15.5%

¹Includes 75 MW of Energy Efficiency

2011 (Actual Peak Load: 158,016 MW on July 21, 2011 at HE 17)

Forecast Load – Expected peak demand, based on normal weather (Total Internal Demand-TID)

Demand Response – Contractually interruptible load and other customer load willing to be interrupted at the direction of PJM. Compliance check is performed at end of summer.

Forecast Load Less Load Management – Expected peak demand after demand response has been implemented (Net Internal Demand-NID)

Installed Generation Capacity – Total MW amount of deliverable generation inside PJM (Installed Capacity)

Reserve (MW) – Installed Generation Capacity minus Net Internal Demand

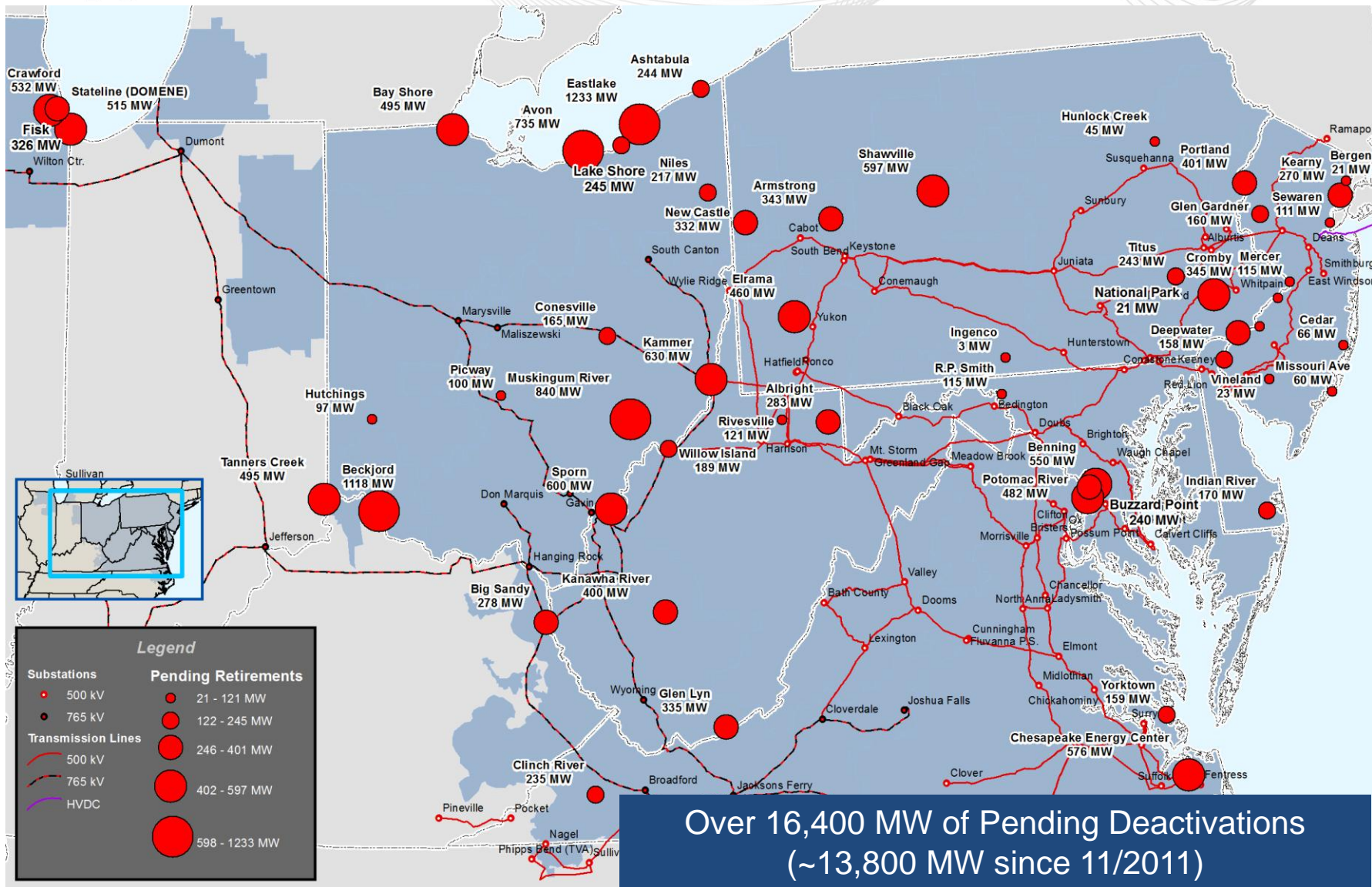
Reserve Margin (%) – Reserve expressed as a percent of Net Internal Demand

Required Reserve Margin (%) – PJM required planning reserve, as determined by the RPM process (Installed Reserve Margin-IRM)

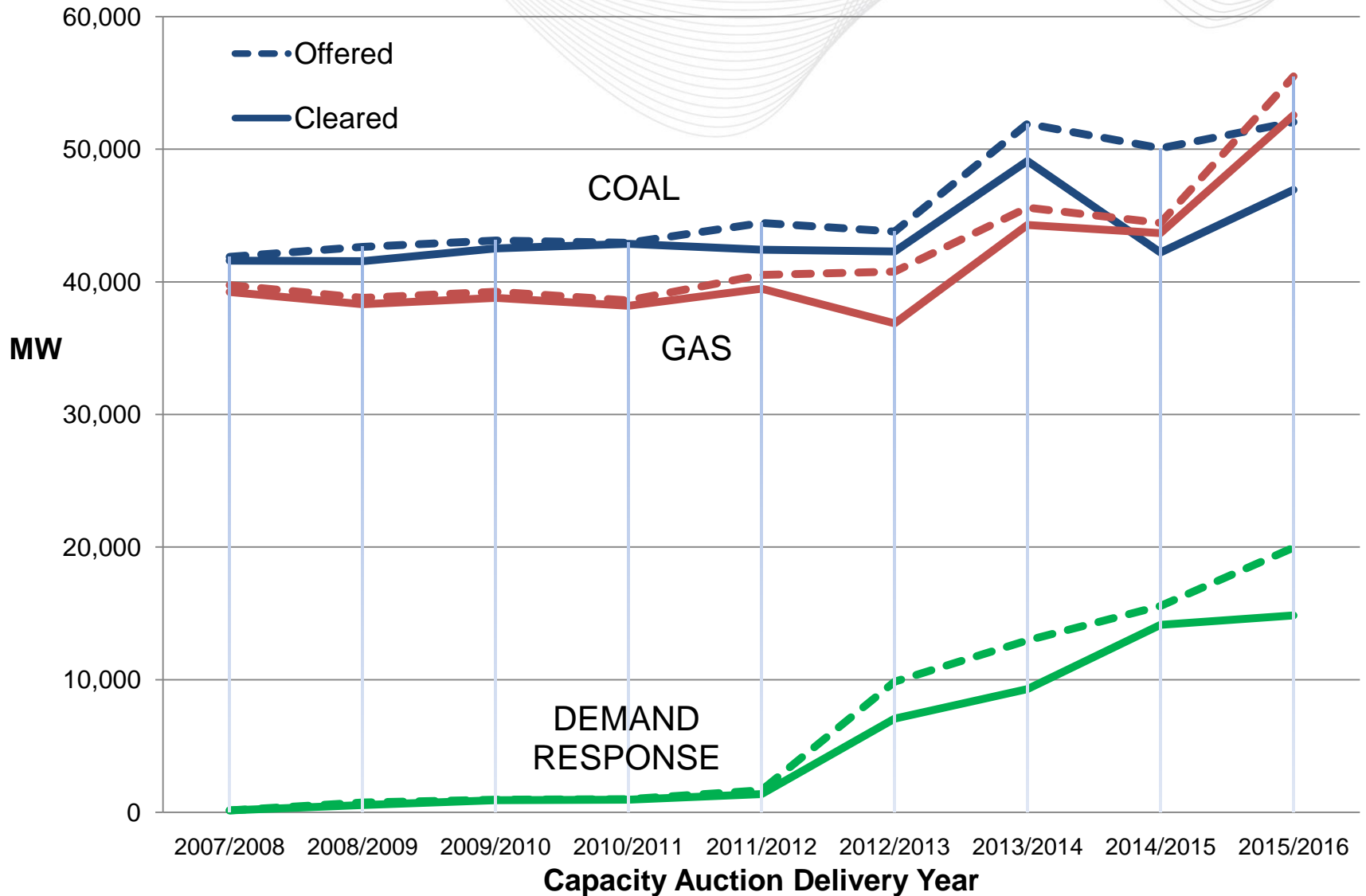
- PJM Operations Assessment Task Force (OATF) Summer Operating Study
- Reliability *First* Summer Assessment
- Joint MISO/PJM Operations Coordination Meeting
- PJM Spring Operator Seminar (10 sessions – over 700 operators attended)
- PJM Emergency Procedures Drill – May 22, 2012

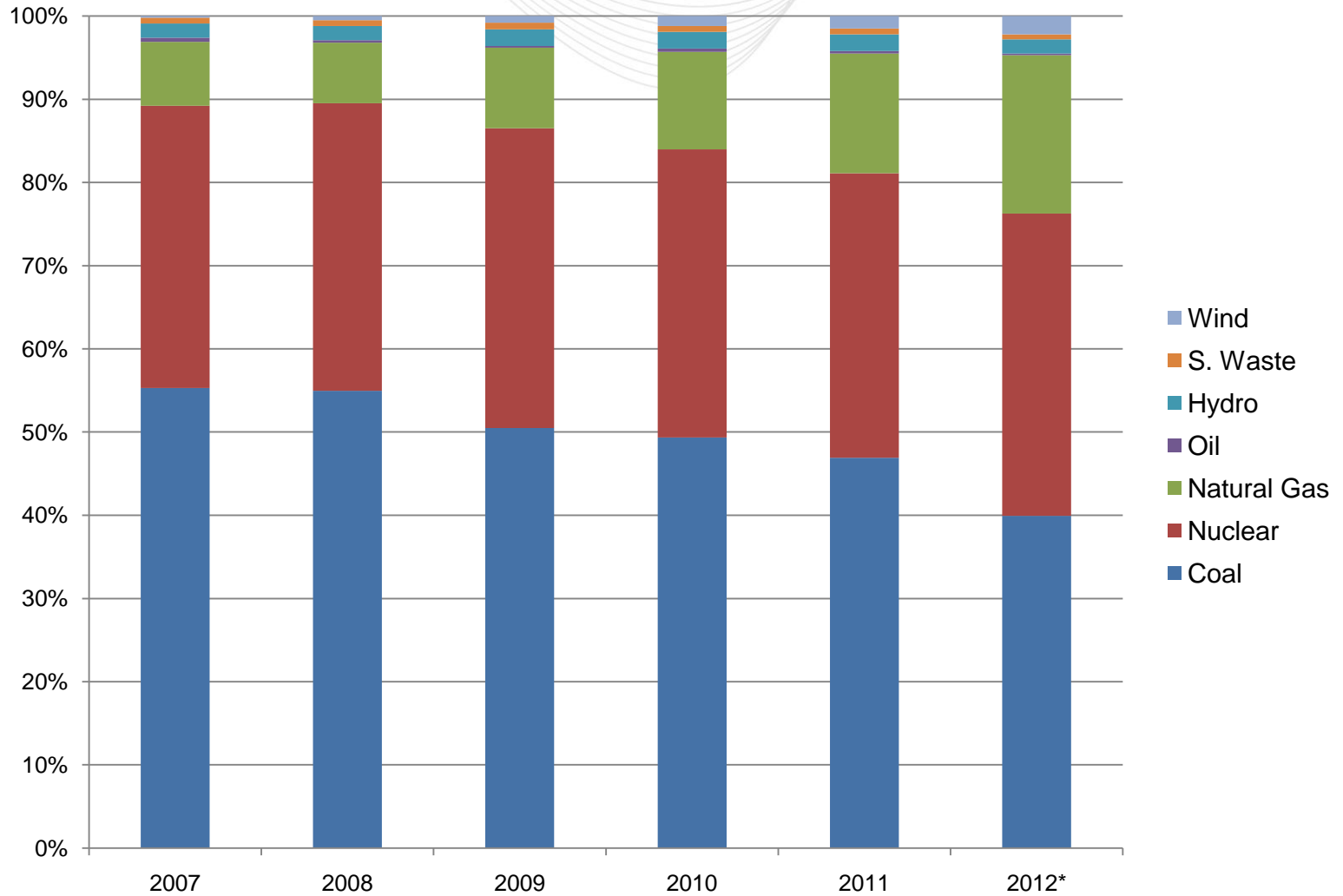
Normal Sequence of Emergency Procedures

- Alerts – Usually, issued the day before the operating day
- Warnings – Usually, issued the morning of the operating day or when the event is imminent
- Actions – At the onset of the event

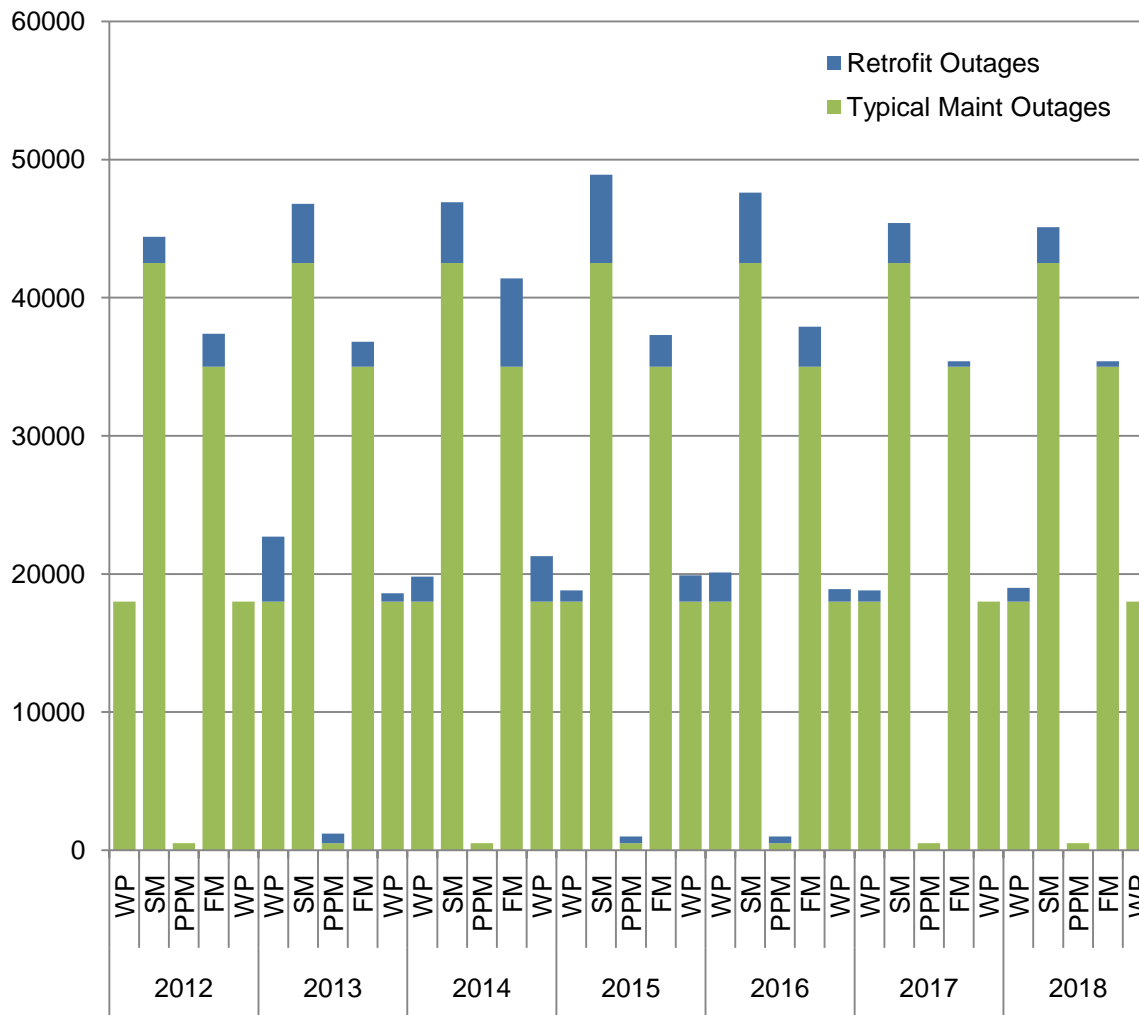


Capacity Resources : In Transition





Environmental Retrofit Outages and Typical Maintenance Outages



	Retrofit Outages (MW)	Typical Maint Outages (MW)
2012	Winter Period (WP)	18000
	Spring Maintenance (SM)	42500
	PPM	500
	Fall Maintenance (FM)	35000
2013	Winter Period (WP)	18000
	Winter Period (WP)	18000
	Spring Maintenance (SM)	42500
	PPM	500
2014	Fall Maintenance (FM)	35000
	Winter Period (WP)	18000
	Winter Period (WP)	18000
	Spring Maintenance (SM)	42500
2015	PPM	500
	Fall Maintenance (FM)	35000
	Winter Period (WP)	18000
	Winter Period (WP)	18000
2016	Spring Maintenance (SM)	42500
	PPM	500
	Fall Maintenance (FM)	35000
	Winter Period (WP)	18000
2017	Winter Period (WP)	18000
	Winter Period (WP)	18000
	Spring Maintenance (SM)	42500
	PPM	500
2018	Fall Maintenance (FM)	35000
	Winter Period (WP)	18000
	Spring Maintenance (SM)	42500
	PPM	500
2019	Fall Maintenance (FM)	35000
	Winter Period (WP)	18000
	Winter Period (WP)	18000
	Spring Maintenance (SM)	42500
2020	PPM	500
	Fall Maintenance (FM)	35000
	Winter Period (WP)	18000
	Winter Period (WP)	18000

*Some retrofit outages may be included in typical maintenance outages.



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