Summer 2009
PJM Reliability Assessment

Pennsylvania Public Utility Commission
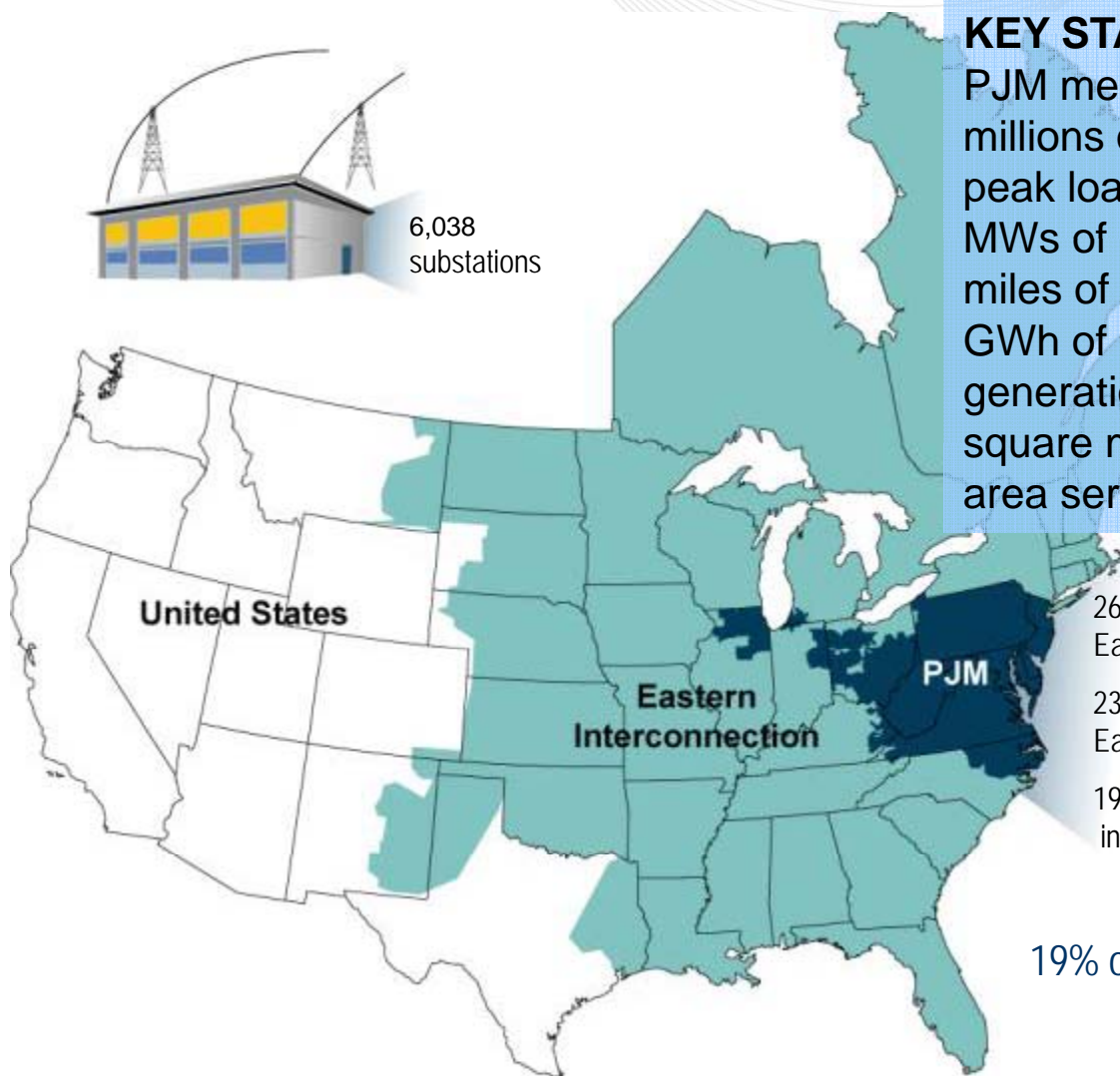## June 9, 2009

6,038 substations
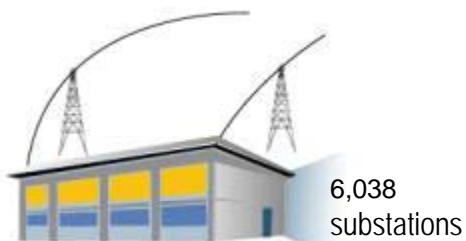
KEY STATISTICS

PJM member companies	550+
millions of people served	51
peak load in megawatts	144,644
MWs of generating capacity	165,600
miles of transmission lines	56,499
GWh of annual energy	729,000
generation sources	1,287
square miles of territory	168,500
area served	13 states + DC

United States

Eastern Interconnection

PJM

26% of generation in
Eastern Interconnection

23% of load in
Eastern Interconnection

19% of transmission assets
in Eastern Interconnection

19% of U.S. GDP produced in PJM

2009 (Projected as of May 29, 2009)

	Forecast Load (MW) total	Load Mgt and Contractually Interruptible (MW)	Forecast Load Less Load Mgmt & Contractually Interruptible (MW)	Installed Generation Capacity (MW)	Reserve (MW)	Capacity Margin	Reserve Margin	Required Reserve Margin
RTO	134,430	7,020	127,410	165,600	38,190	23.1%	30.0%	15.0%
PA	27,920	1,720	26,200	41,300	N/A	N/A	N/A	N/A

2008

RTO Metered Peak: 130,100 MW

Weather Normalized Peak: 136,310 MW

All-Time Metered Peak: 144,644 MW on August 2, 2006

PJM Interconnection
2003 - 2009 Load Management Summary
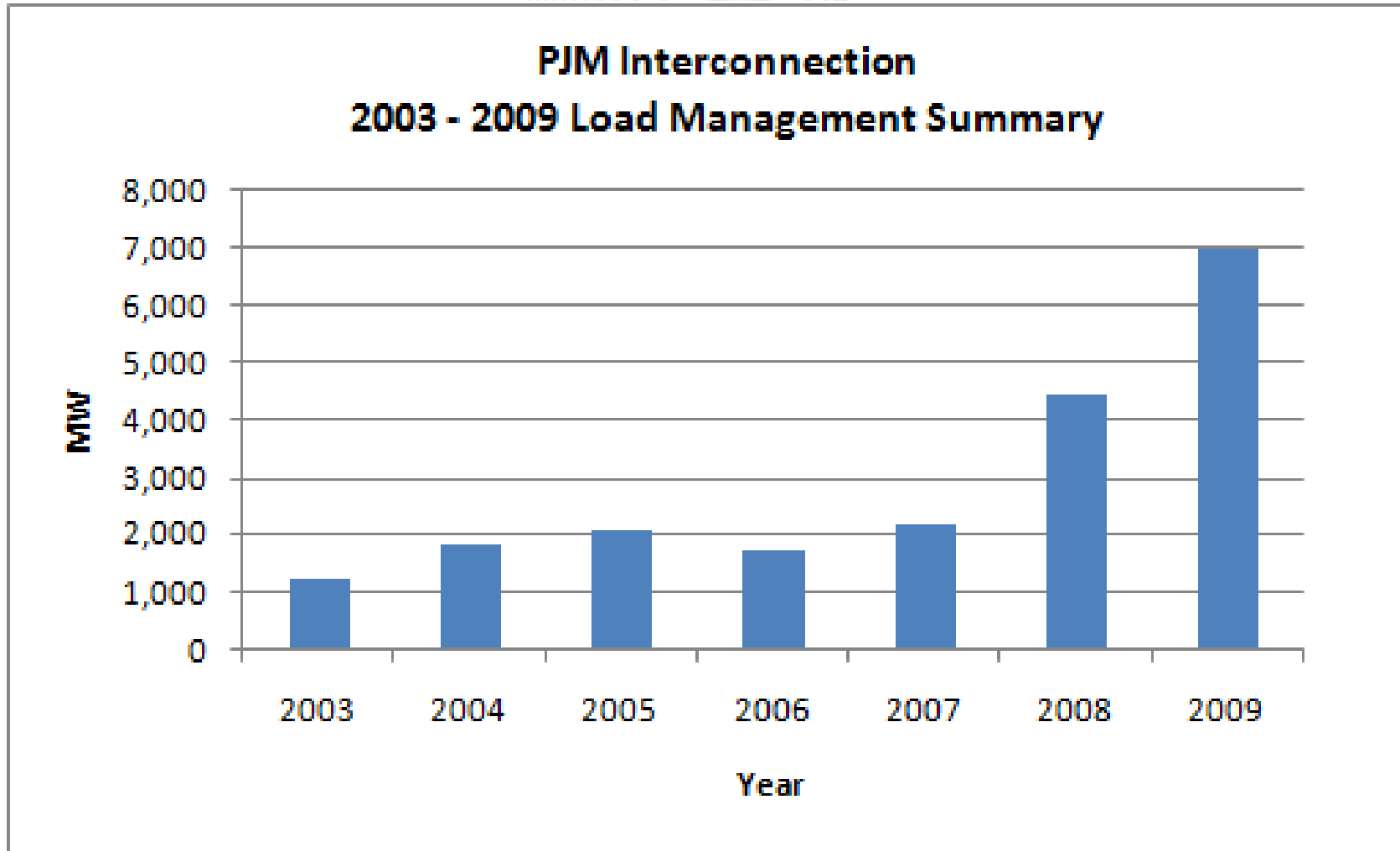
- Compensated through RPM

- Operational control turned over to PJM

- Requirements regarding number of interruptions, duration of interruptions, lead time, etc.

- PJM verifies compliance

Year	# of LM Events	Year	# of LM Events
2003	0	2006	2
2004	0	2007	1
2005	2	2008	0

- 2009 Economic Load Response registrations: 2,218 MW

- Historically about 7% of PJM capacity is "forced out" of service during the peak summer period

- All nuclear units are expected to be in service and at full capacity (31,000 MW) at the time of the peak

- Scheduled generator maintenance is coordinated to minimize peak period impacts

- Water levels are expected to be normal or above for hydro units

- PJM has about 1,300 MW of energy-only generation

- PJM Operating Analysis Task Force (OATF) Summer Operating Study
- Reliability*First,* SERC and NERC Summer Assessments
- Joint Operations Coordination Meeting with PJM and MISO/NYISO/TVA/VACAR
- PJM Spring Operator Seminar (9 sessions – over 600 operators attended)
- PJM Emergency Procedures Drill

- Generation reserves exceed required margin of 15%

- 5.6% of total demand is in emergency and/or economic load response programs

- Transmission system is expected to perform adequately based on applicable criteria.

- PJM expects to be able to reliably serve projected peak loads