

## OMA Energy Group

### Agenda OMA Energy Group Meeting September 5, 2012

Welcome a	nd Introductions	Barry McClelland Chairman, OMA Energy Group Honda of America Manufacturing
		Eric L. Burkland President The Ohio Manufacturers' Association
10:00 a.m.	Mr. Andrew Ott	Senior Vice President - Markets, PJM
	Mr. Steve Herling	Vice President of Planning, PJM
	Mr. Kerry Stroup	Manager of Legislative and Regulatory Affairs, PJM
11:30 a.m.	Chairman Todd Snitchler	Public Utilities Commission of Ohio
12:30 p.m.	Lunch	
1:00 p.m.	Discussion	
2:00 p.m.	Adjourn	



Ohio |



John R. Kasich, Governor Todd A. Snitchler, Chairman Paul A. Centolella Cheryl Roberto Steven D. Lesser Andre T. Porter

#### Chairman Todd A. Snitchler Term expires, April 10, 2014

Chairman Todd A. Snitchler was appointed to the Public Utilities Commission of Ohio by Governor John Kasich in March 2011.

As chairman of the PUCO, Snitchler is the head of a 350-person agency that works to oversee the regulation of electric, natural gas, telecommunications, water, and commercial transportation in the state of Ohio. He is also the chairman of the Ohio Power Siting Board that reviews, evaluates, and approves the siting of electric generation plants and electric and natural gas transmission lines. Snitchler is a member of the National Association of Regulatory Utility Commissioners and serves as co-vice chair of the association's committees on gas, as well as serving on the committee on International Relations.

Before joining the Commission, Snitchler was elected to two terms in the Ohio House of Representatives, where he represented the 50th House District including parts of Stark County. In addition to serving in the Ohio Legislature, Snitchler was also an attorney in private practice. Snitchler is also a member of the Grove City College Alumni Council.

Chairman Snitchler received his bachelor's degree in history and secondary education/social science from Grove City College and his law degree from the University of Akron School of Law, where he served as executive editor of the *Akron Law Review*. He is a graduate of Leadership Stark County's 20th Class and an active member of The Chapel in North Canton.

Snitchler lives in Uniontown with his wife Melanie, with whom he has two children.



# Andrew L. Ott

#### Sr. Vice President – Markets

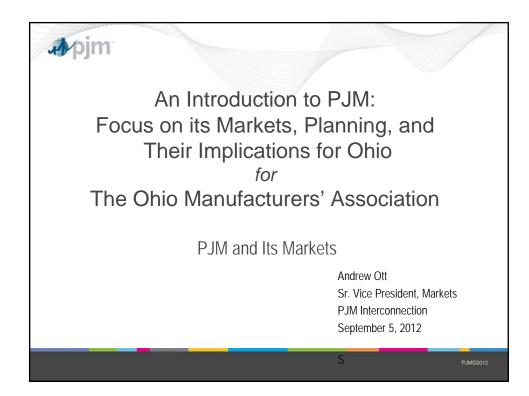


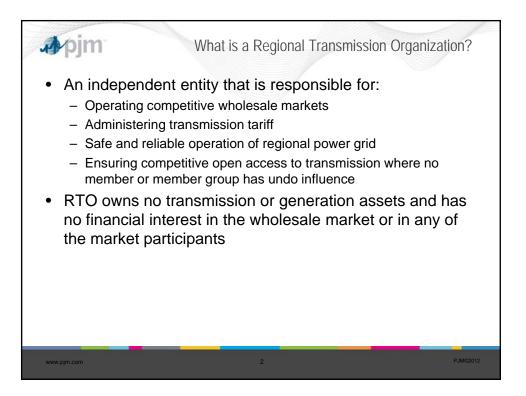
**Andrew L. Ott** is senior vice president of Markets for PJM Interconnection. He also serves as a board member for PJM Technologies and PJM Environmental Information Services. Mr. Ott has been with PJM for more than 15 years and is responsible for executive oversight of PJM's Market Operations, Market Strategy, Member Training, State Relations, Customer Relations and Performance Compliance divisions. He was responsible for design and implementation of PJM's wholesale electricity markets including the PJM Locational Marginal Pricing, Financial Transmission Rights, Day-Ahead Energy Market and Capacity Market systems.

Mr. Ott has extensive experience in energy market restructuring, including electricity market design and implementation issues, and in power-system engineering applications. Mr. Ott serves on the board of directors on the Wholesale Electricity Quadrant of the North American Energy Standards Board. He serves as the US representative and working group chair for the CIGRE (International Council on Large Electric Systems) C5 Study Committee on Electricity Markets and Regulation.

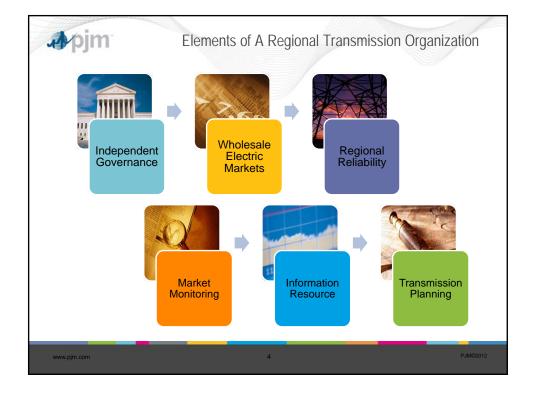
Prior to joining PJM, Mr. Ott was employed by GPU for 13 years in transmission planning and operations.

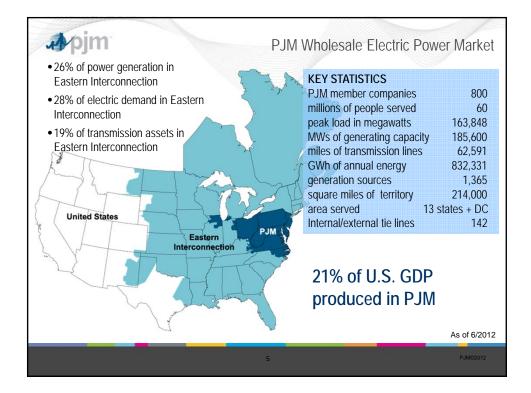
Mr. Ott received a Bachelor of Science in Electrical Engineering from Pennsylvania State University. He also received a Master of Science in Applied Statistics from Villanova University. PJM Interconnection, founded in 1927, ensures the reliability of the high-voltage electric power system serving 58 million people in all or parts of Delaware. Illinois, Indiana. Kentucky. New Jersey, Maryland, Michigan, North Carolina, Ohio, Pennsylvania, Tennessee, Virginia, West Virginia and the District of Columbia. PJM coordinates and directs the operation of the region's transmission grid, which includes 61,000 miles of transmission lines; administers a competitive wholesale electricity market: and plans regional transmission expansion improvements to maintain grid reliability and relieve congestion. Visit PJM at www.pjm.com.

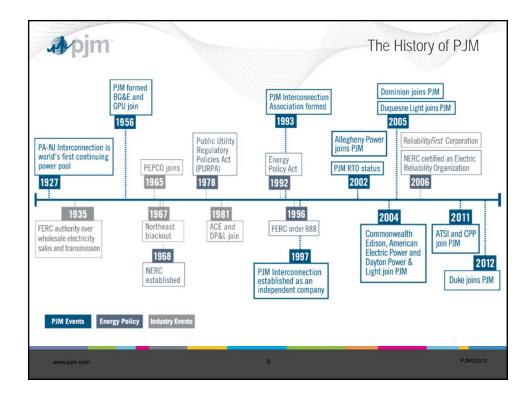






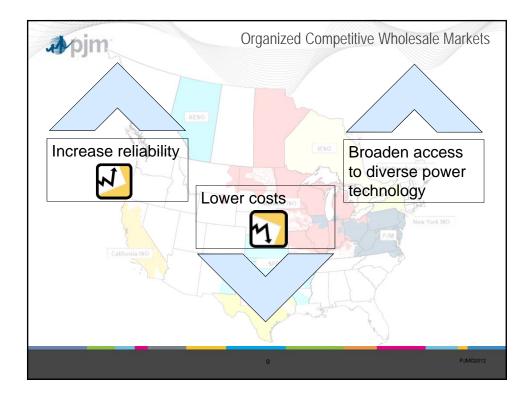


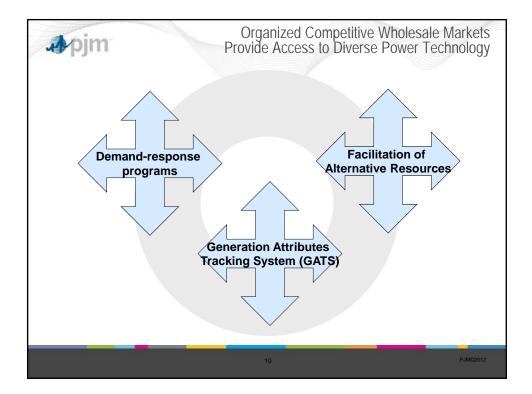


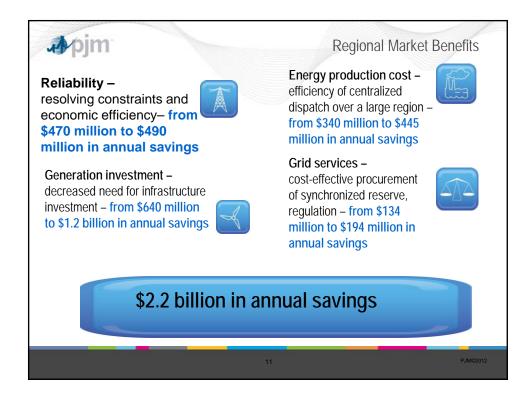


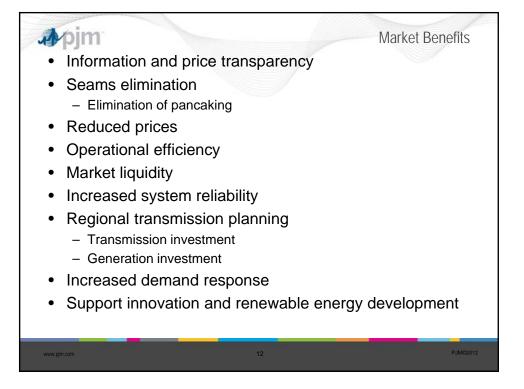


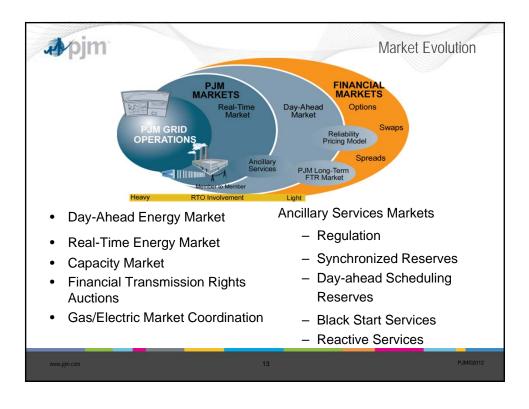




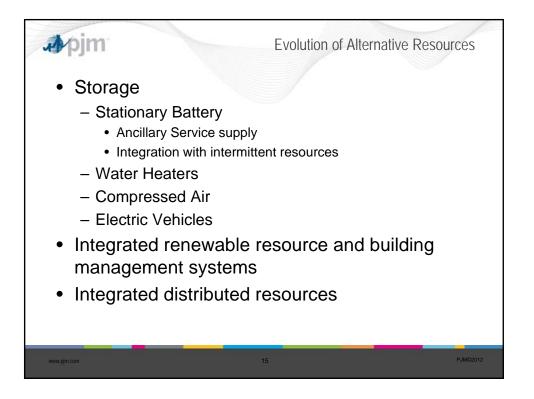


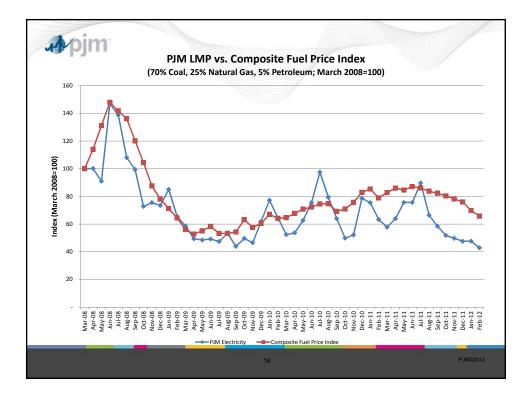


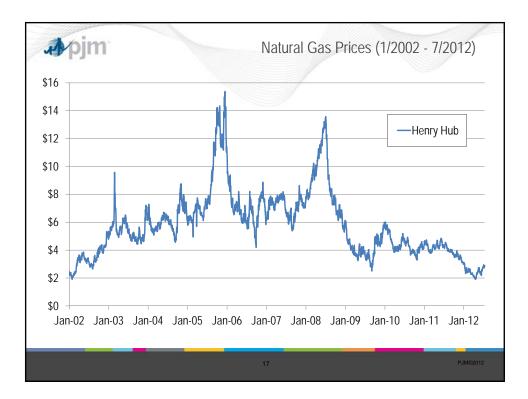


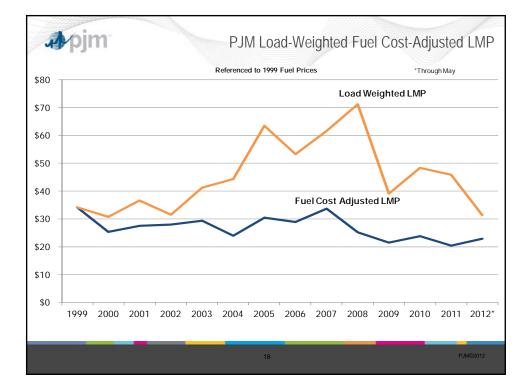


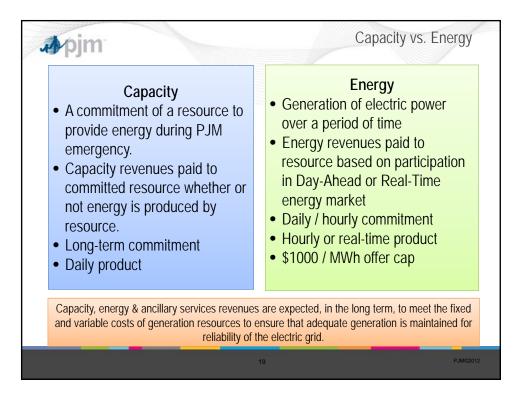
Evolution of Supply	Evolution of Demand	Market Evolution
<ul> <li>Traditional resources         <ul> <li><i>Less flexible</i></li> </ul> </li> <li>Renewable resources         <ul> <li><i>Intermittent</i></li> </ul> </li> <li>Less capability to provide power grid services</li> </ul>	<ul> <li>Technology enabled flexibility</li> <li>Alternative resource growth</li> <li>Enhanced capability to provide grid services</li> </ul>	<ul> <li>Improvement in optimization and control systems</li> <li>More real-time markets to reward consumer flexibility</li> <li>Development of Forward Demand Response Control Signals</li> </ul>

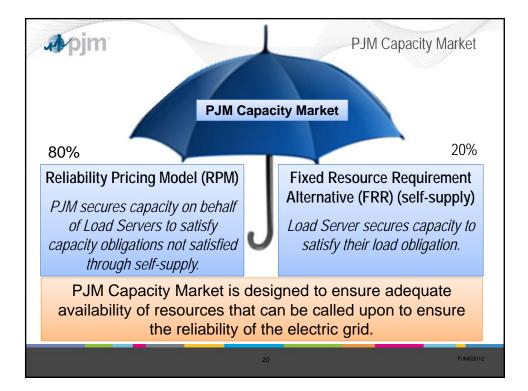


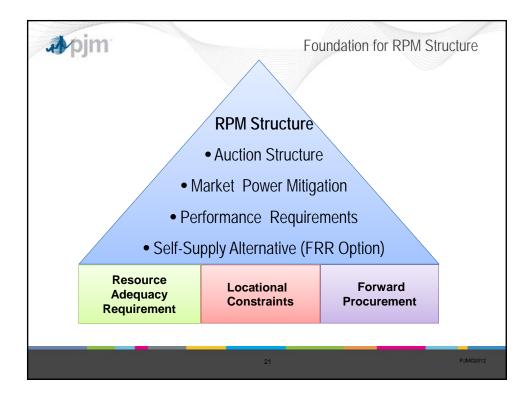


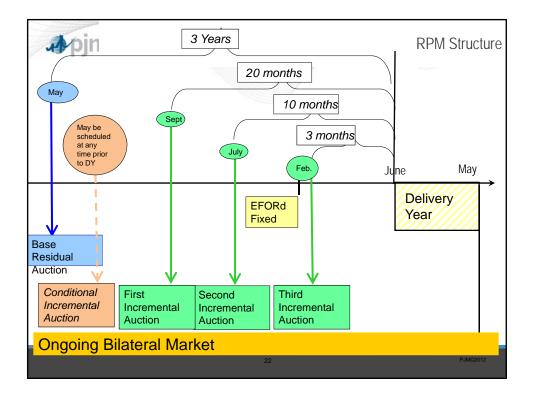


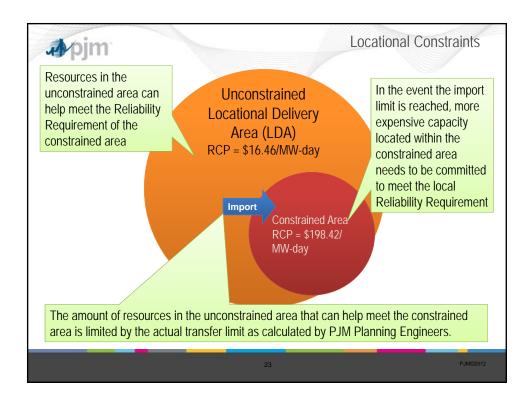


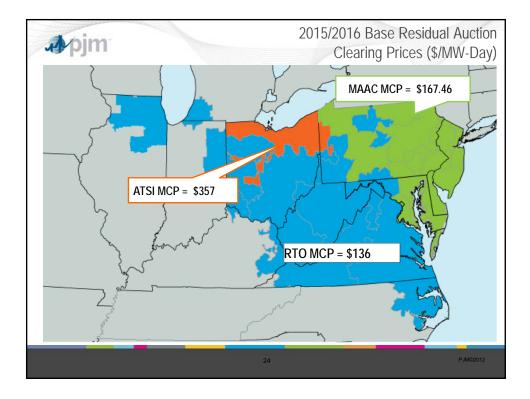


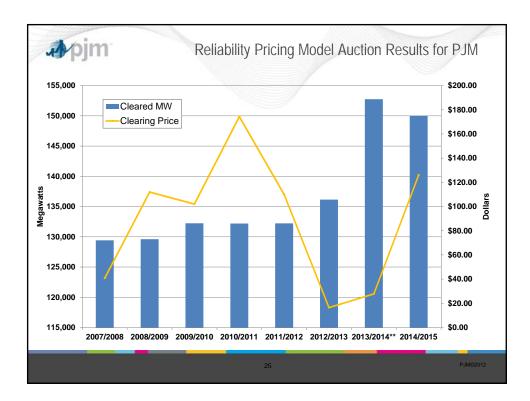


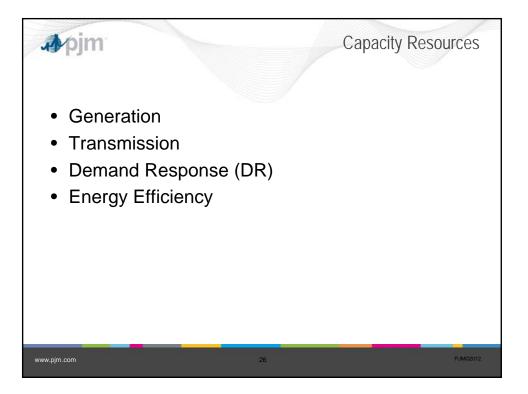


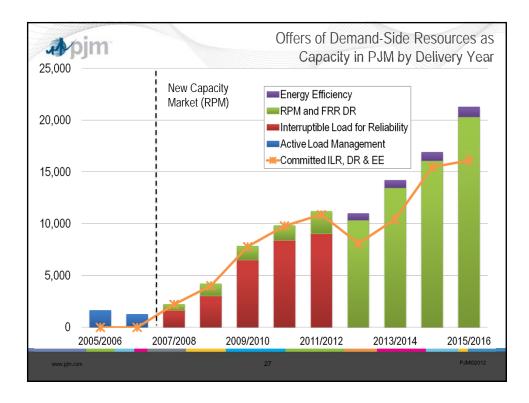


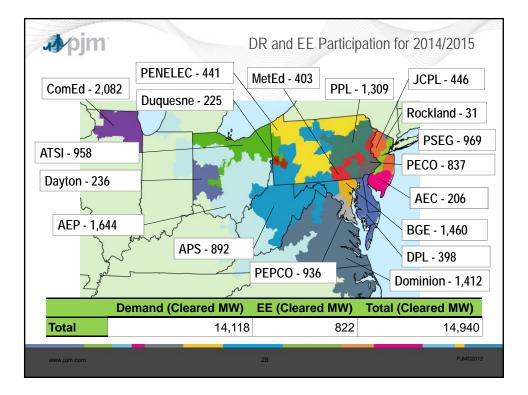




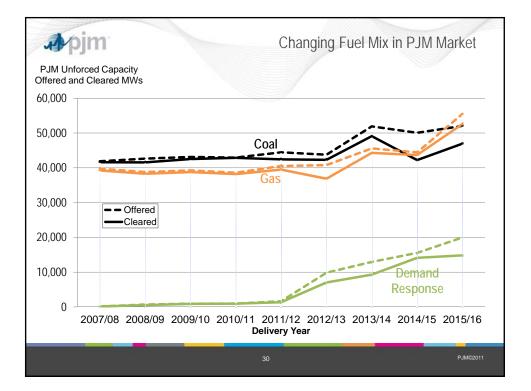


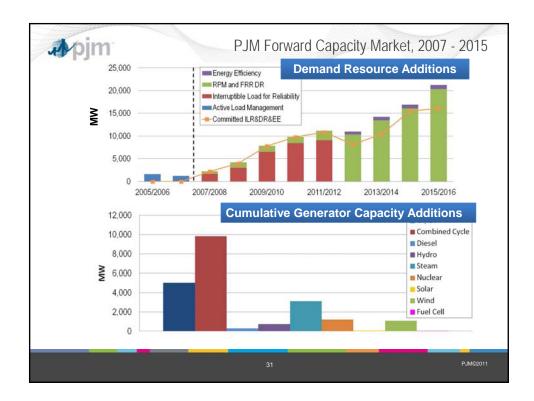




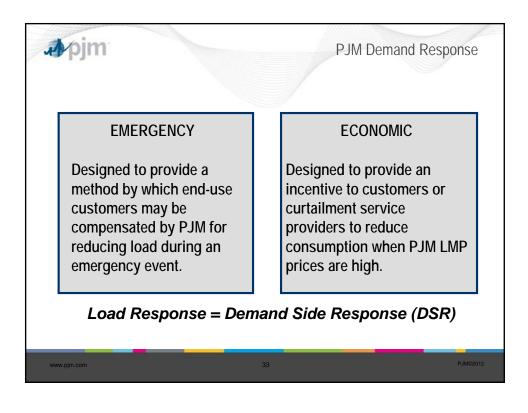


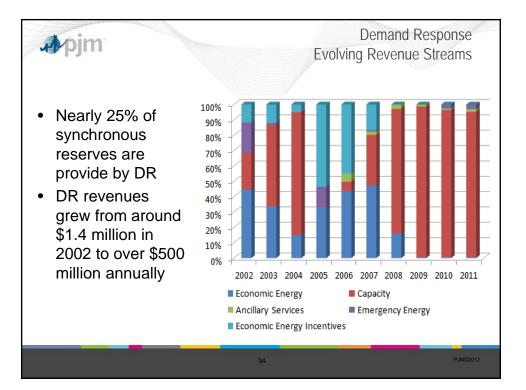




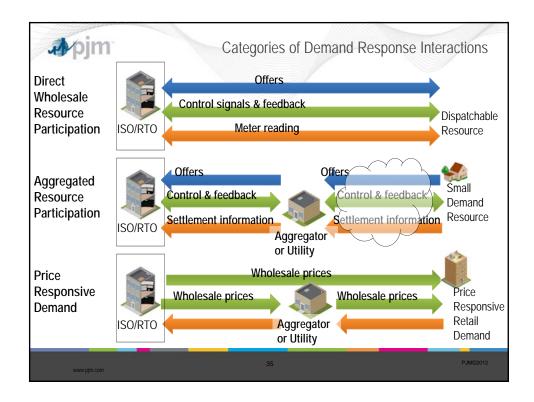


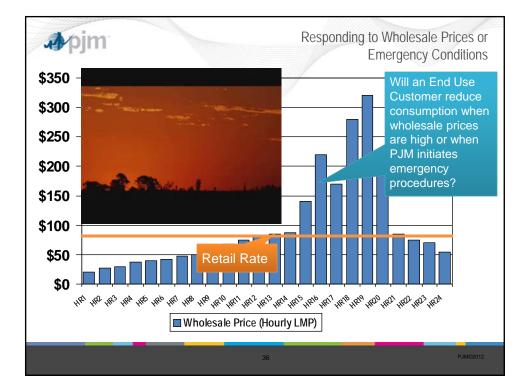






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## Steven R. Herling



**Steven R. Herling** is Vice President of Planning at PJM Interconnection. He is responsible for the oversight of the System Planning Division which includes Transmission Planning, Interregional Planning, Interconnection Projects, Interconnection Analysis, and Resource Adequacy Planning.

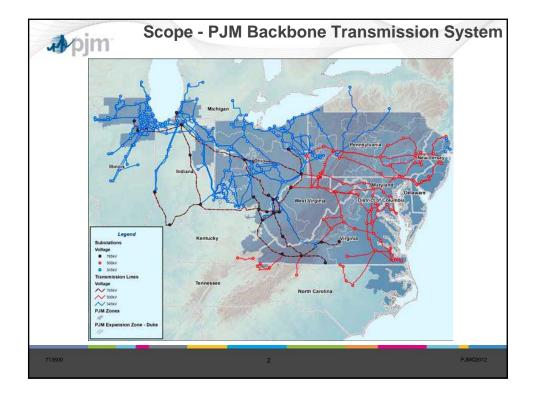
Mr. Herling has been involved extensively in the development of PJM's regional transmission expansion planning process and resource adequacy planning process. Recently, he has been actively involved in the development of a number of new backbone transmission projects on the PJM system as well as efforts to enhance coordination of planning activities across ISO/RTO boundaries.

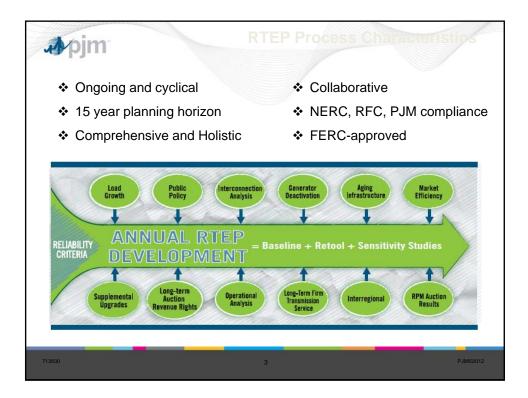
Prior to joining PJM, Mr. Herling worked for the General Public Utilities Service Corporation in systems operations and the American Electric Power Service Corporation in bulk transmission planning. Mr. Herling earned a bachelor of science degree in electric power engineering degree in electric power engineering, both from Rensselaer Polytechnic Institute. He is a licensed professional engineer in the state of Ohio.

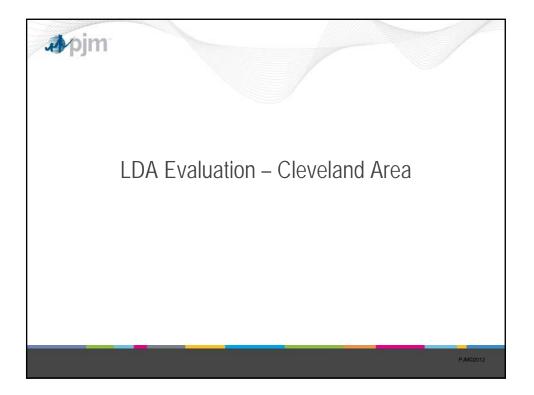
Mr. Herling earned a bachelor of science degree in electric power engineering and a master of engineering degree in electric power engineering, both from Rensselaer Polytechnic Institute. He is a licensed professional engineer in the state of Ohio.

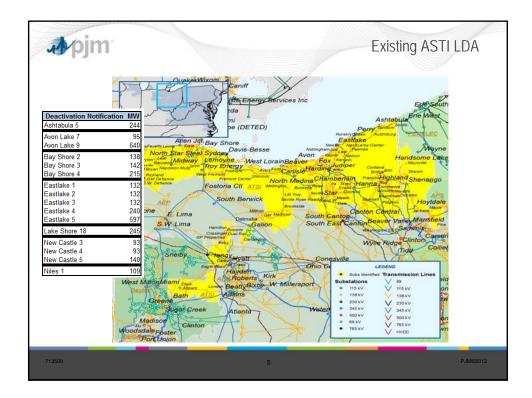
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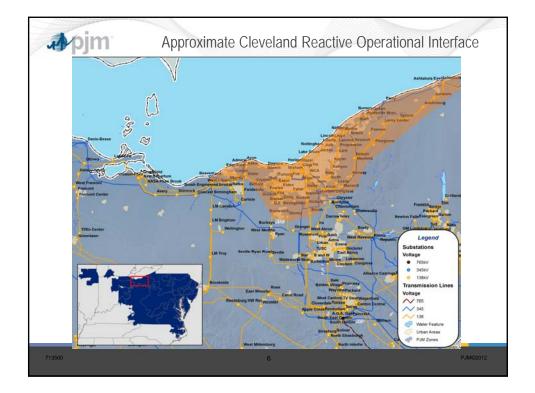


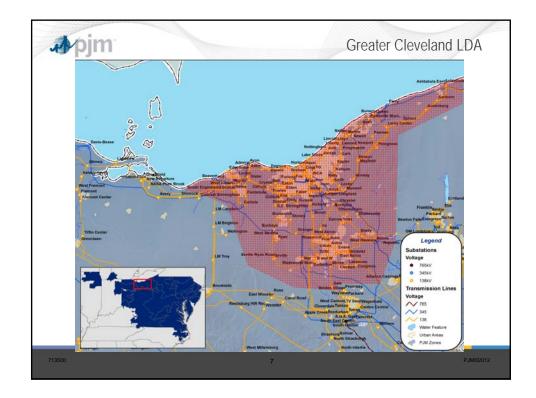


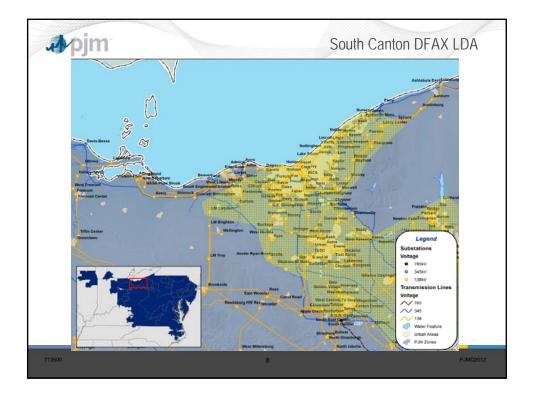


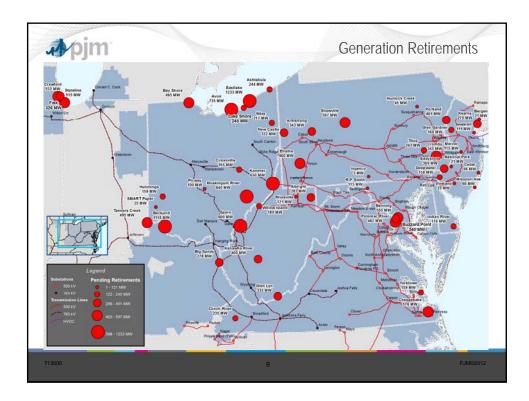


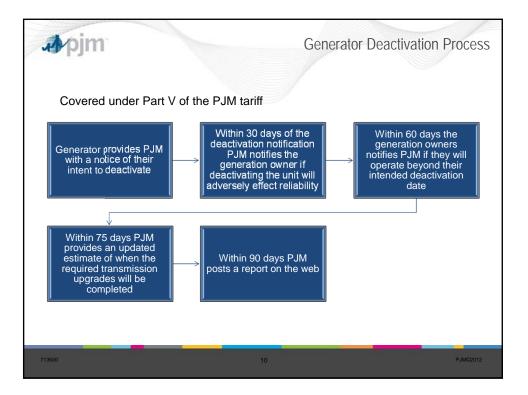












Unit	Trans Zone	Requested Deactivation Date	PJM Reliability Status
Chesapeake 1 & 2, Yorktown 1	DOM	12/31/2014	Reliability Analysis complete. Impacts identified. Upgrades expected to be completed by June 2015.
Chesapeake 3 & 4	DOM	12/31/2015	Reliability Analysis complete. Impacts identified. Upgrades expected to be completed by June 2016.
Bergen 3; Burlington 8; National Park 1; Mercer 3; Sewaren 6	PSEG	6/1/2015	Reliability Analysis Complete. Impacts identified and expected to be resolved in three - four years. Working with affected TO to finalize upgrade schedule.
Armstrong 1 & 2; Bayshore 2-4; Eastlake 4-5; R Paul Smith 3 & 4	ATSI/AP	9/1/2012	Reliability analysis complete. Impacts identified and expected to be resolved by June 2016. Further refinement of the reliability analysis, required upgrades, and generator deactivation schedule continues. Unit will deactivate as scheduled. See posting - FE Generator Deactivation Study Results and Required Upgrades.
Ashtabula 5; Eastlake 1-3; Lake Shore 18	ATSI	9/1/2012	Reliability analysis complete. Impacts identified and expected to be resolved by June 2016. Further refinement of the reliability analysis, required upgrades, and generator deactivation schedule continues. Unit will continue to operate as upgrades to transmission system are constructed - estimated till June 1, 2015. See posting - FE Generator Deactivation Study Results and Required Upgrades
Walter C Beckjord 1	DEOK	5/1/2012	Reliability Analysis complete - no impacts identified.
Walter C Beckjord 2-6	DEOK	4/1/2015	Reliability Analysis complete - impacts identified - upgrades scheduled to be completed by June 2014

Unit	Trans Zone	Requested Deactivation Date	PJM Reliability Status
Albright 1-3; Rivesville 5 & 6; Willow Island 1 & 2	APS	9/1/2012	Reliability Analysis complete - impacts identified - upgrades scheduled to be completed by May 2013. Thus generator can be allowed to deactivate as scheduled on 9/1/2012 assuming all upgrades are still on track to be completed as scheduled.
New Castle 3-5; New Castle Diesels A & B	ATSI	4/16/2015	Reliability Analysis complete - impacts identified - upgrades scheduled to be completed by June 2015. Thus generator can be allowed to deactivate as scheduled.
Portland 1 & 2; Glen Gardner CT 1-8	MetEd	1/7/2015	Reliability Analysis complete - impacts identified - upgrades and operating procedures expected to be in place by May 2015 to allow generators to deactivate as scheduled.
Elrama 1-3	DUQ	6/1/2012	Reliability Analysis complete - impacts identified - upgrades scheduled to be completed by June 2014. Unit deactivated on June 1, 2012.
Elrama 4	DUQ	6/1/2012	Reliability Analysis complete - impacts identified - upgrades scheduled to be completed by June 2014. Evaluating options. Unit to be kept in service until October 1, 2012, pending analysis of outages required to implement required system upgrades
Shawville 1-4; Titus 1-3	PenElec	4/16/2015	Reliability Analysis complete - impacts identified - upgrades and operating procedures expected to be in place by May 2015 to allow generators to deactivate as scheduled.
Niles 1	ATSI	6/1/2012	Reliability Analysis complete - impacts identified - upgrades scheduled to be completed by June 2014. Evaluating options. Unit to be kept in service until October 1, 2012, pending analysis of outages required to implement required system upgrades

Unit	Trans Zone	Requested Deactivation Date	PJM Reliability Status
Niles 2	ATSI	6/1/2012	Reliability Analysis complete - impacts identified - upgrades scheduled to be completed by June 2014. Unit deactivated on June 1, 2012.
Fisk Street 19, Crawford 7 & 8	ComEd	12/31/2012	Reliability Analysis Complete. No impacts identified.
Conesville 3	AEP	12/31/2012	Reliability Analysis complete - impacts identified - upgrades scheduled to be completed by June 2014. PJM continues to finalize details of required upgrades and completion dates.
Big Sandy 1; Clinch River 3; Glen Lyn 5 & 6; Kammer 1-3; Kanawha River 1 & 2; Muskingum River 1-4; Pickway 5; Sporn 1-4; Tanner Creek 1-3	AEP	6/1/2015	Reliability Analysis complete - impacts identified - upgrades scheduled to be completed by June 2015.
Avon Lake 7 & 9	ATSI	4/16/2015	Reliability Analysis complete - impacts identified - upgrades scheduled to be completed by May 2015
Sewaren 1-4	PSEG	6/1/2015	Reliability Analysis complete. No impacts expected with PSEG contemplating re-use of Capacity Rights for a new generation project
Cedar 1 & 2; Deepwater 1 & 6; Missouri Ave CT B, C & D	AE	5/31/2015	Reliability Analysis complete - impacts identified - upgrades scheduled to be completed by May 2015
Hutchings 1 & 2	Dayton	6/1/2015	Reliability Analysis complete. No impacts identified
Smart Paper (St. Clair)	DEOK	8/10/2012	Reliability Analysis complete. No impacts identified
Hutchings 4	Davton	6/1/2013	Reliability Analysis Underway



