

Positive Energy for Investors



# RBC Capital Markets' Global Energy & Power Conference

New York, NY • June 4, 2013





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Updated  
(since last presentation)

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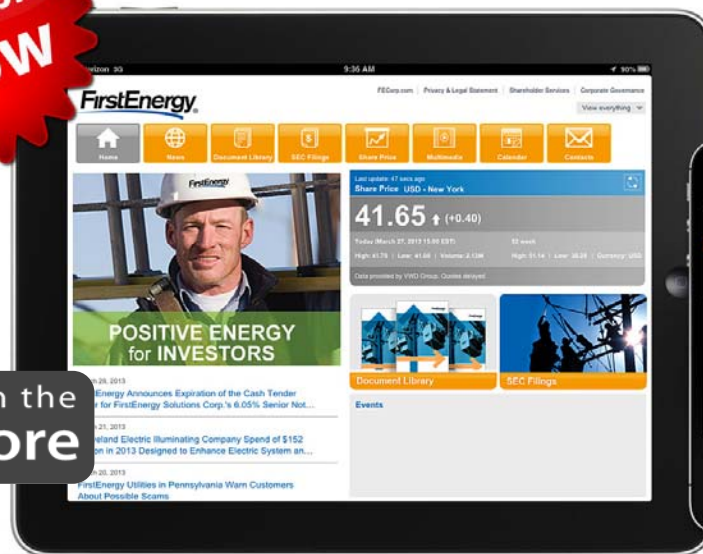
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# Investor Relations iPhone/iPad App

**iPhone App:**  
FirstEnergy IR for iPhone



**iPad App:**  
FirstEnergy IR for iPad



Available on the  
**App Store**



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### Safe Harbor Statement under the Private Securities Litigation Reform Act of 1995

**Forward Looking Statement:** This presentation includes forward-looking statements based on information currently available to management. Such statements are subject to certain risks and uncertainties. These statements include declarations regarding management's intents, beliefs and current expectations. These statements typically contain, but are not limited to, the terms "anticipate," "potential," "expect," "believe," "estimate" and similar words. Forward-looking statements involve estimates, assumptions, known and unknown risks, uncertainties and other factors that may cause actual results, performance or achievements to be materially different from any future results, performance or achievements expressed or implied by such forward-looking statements. Actual results may differ materially due to the speed and nature of increased competition in the electric utility industry, in general, and the retail sales market in particular, the impact of the regulatory process on the pending matters before FERC and in the various states in which we do business including, but not limited to, matters related to rates and pending rate cases, the uncertainties of various cost recovery and cost allocation issues resulting from ATSI's realignment into PJM, economic or weather conditions affecting future sales and margins, regulatory outcomes associated with Hurricane Sandy, changing energy, capacity and commodity market prices including, but not limited to, coal, natural gas and oil, and availability and their impact on retail margins, the continued ability of our regulated utilities to recover their costs, operation and maintenance costs being higher than anticipated, other legislative and regulatory changes, and revised environmental requirements, including possible GHG emission, water discharge, water intake and coal combustion residual regulations, the potential impacts of CAIR, and any laws, rules or regulations that ultimately replace CAIR, and the effects of the EPA's MATS rules including our estimated costs of compliance, the uncertainty of the timing and amounts of the capital expenditures that may arise in connection with any litigation, including NSR litigation or potential regulatory initiatives or rulemakings (including that such expenditures could result in our decision to deactivate or idle certain generating units), the uncertainties associated with the deactivation of certain older unscrubbed regulated and competitive fossil units, including the impact on vendor commitments, and the timing thereof as they relate to, among other things, the RMR arrangements and the reliability of the transmission grid, adverse regulatory or legal decisions and outcomes with respect to our nuclear operations (including, but not limited to the revocation or non-renewal of necessary licenses, approvals or operating permits by the NRC or as a result of the incident at Japan's Fukushima Daiichi Nuclear Plant), adverse legal decisions and outcomes related to ME's and PN's ability to recover certain transmission costs through their TSC riders, the impact of future changes to the operational status or availability of our generating units, the risks and uncertainties associated with litigation, arbitration, mediation and like proceedings, including, but not limited to, any such proceedings related to vendor commitments, replacement power costs being higher than anticipated or inadequately hedged, the ability to comply with applicable state and federal reliability standards and energy efficiency and peak demand reduction mandates, changes in customers' demand for power, including but not limited to, changes resulting from the implementation of state and federal energy efficiency and peak demand reduction mandates, the ability to accomplish or realize anticipated benefits from strategic and financial goals including, but not limited to, the ability to reduce costs and to successfully complete our announced financial plans designed to improve our credit metrics and strengthen our balance sheet, including but not limited to, proposed capital raising and debt reduction initiatives, the proposed West Virginia asset transfer and potential sale of non-core hydro assets, our ability to improve electric commodity margins and the impact of, among other factors, the increased cost of fuel and fuel transportation on such margins, the ability to experience growth in the Regulated Distribution segment and to continue to successfully implement our direct retail sales strategy in the Competitive Energy Services segment, changing market conditions that could affect the measurement of liabilities and the value of assets held in our NDTs, pension trusts and other trust funds, and cause us and our subsidiaries to make additional contributions sooner, or in amounts that are larger than currently anticipated, the impact of changes to material accounting policies, the ability to access the public securities and other capital and credit markets in accordance with our announced financial plan, the cost of such capital and overall condition of the capital and credit markets affecting us and our subsidiaries, actions that may be taken by credit rating agencies that could negatively affect us and our subsidiaries' access to financing, increase the costs thereof, and increase requirements to post additional collateral to support outstanding commodity positions, LOCs and other financial guarantees, changes in national and regional economic conditions affecting us, our subsidiaries and our major industrial and commercial customers, and other counterparties including fuel suppliers, with which we do business, issues concerning the stability of domestic and foreign financial institutions and counterparties with which we do business, and the risks and other factors discussed from time to time in our SEC filings, and other similar factors. Dividends declared from time to time on FE's common stock during any annual period may in the aggregate vary from the indicated amount due to circumstances considered by FE's Board of Directors at the time of the actual declarations. A security rating is not a recommendation to buy or hold securities and is subject to revision or withdrawal at any time by the assigning rating agency. Each rating should be evaluated independently of any other rating. The foregoing review of factors should not be construed as exhaustive. New factors emerge from time to time, and it is not possible for management to predict all such factors, nor assess the impact of any such factor on FirstEnergy's business or the extent to which any factor, or combination of factors, may cause results to differ materially from those contained in any forward-looking statements. FirstEnergy expressly disclaims any current intention to update, except as required by law, any forward-looking statements contained herein as a result of new information, future events or otherwise.

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## Acronyms

<b>ABO</b>	Accumulated Benefit Obligation	<b>Lo-S</b>	Low Sulfur Coal
<b>ACI</b>	Activated Carbon Injection	<b>MAAC</b>	Mid-Atlantic Area Council
<b>AEP</b>	American Electric Power	<b>MATS</b>	Mercury and Air Toxics Standards
<b>AFUDC</b>	Allowance for Funds Used During Construction	<b>MCI</b>	Medium Commercial / Industrial Customers
<b>AMI</b>	Advanced Metering Infrastructure	<b>MISO</b>	Midwest Independent Transmission System Operator, Inc.
<b>ATSI</b>	American Transmission Systems, Incorporated	<b>MTM</b>	Mark-to-market
<b>BPU</b>	Board of Public Utilities	<b>MW</b>	Megawatt
<b>CBS</b>	Consumer Behavior Study	<b>MWH</b>	Megawatt-hour
<b>CEMS</b>	Continuous Emissions Monitoring System	<b>NAPP</b>	Northern Appalachian
<b>CFB</b>	Circulating Fluidized Bed Boiler	<b>NDC</b>	Net Demonstrated Capacity
<b>CO<sub>2</sub></b>	Carbon Dioxide	<b>NOX</b>	Nitrogen Oxide
<b>COS</b>	Combustion Optimization System	<b>NRC</b>	Nuclear Regulatory Commission
<b>CWIP</b>	Construction Work in Progress	<b>OPEB</b>	Other Post-Employment Benefits
<b>DA</b>	Distribution Automation	<b>OFA</b>	Separated Overfire Air
<b>DC</b>	U.S. Court of Appeals for the District of Columbia	<b>OVEC</b>	Ohio Valley Electric Corporation
<b>DOE</b>	Department of Energy	<b>PBO</b>	Projected Benefit Obligation
<b>DR</b>	Demand Response	<b>PIPP</b>	Percentage of Income Payment Plan
<b>DSP</b>	Default Service Plan	<b>PJM</b>	PJM Interconnection L.L.C.
<b>DSI</b>	Dry Sorbent Injection	<b>POLR</b>	Provider of Last Resort
<b>EDC</b>	Electric Distribution Company	<b>PPA</b>	Purchase Power Agreement
<b>EE</b>	Energy Efficiency	<b>Precip</b>	Electrostatic Precipitator
<b>EMAAC</b>	Eastern Mid-Atlantic Area Council	<b>PSA</b>	Power Supply Agreement
<b>ENEC</b>	Expanded Net Energy Cost	<b>PUCO</b>	Public Utilities Commission of Ohio
<b>EPA</b>	United States Environmental Protection Agency	<b>PV</b>	Photovoltaic
<b>ESP</b>	Electric Security Plan	<b>REC</b>	Renewable Energy Credit
<b>FERC</b>	Federal Energy Regulatory Commission	<b>ROE</b>	Return on Equity
<b>FFO</b>	Funds From Operations	<b>RMR</b>	Reliability Must Run
<b>FGD</b>	Flue Gas Desulfurization	<b>RTEP</b>	Regional Transmission Expansion Plan
<b>FRR</b>	Fixed Resource Requirement	<b>RTO</b>	Regional Transmission Organization
<b>GWH</b>	Gigawatt-hour	<b>SCR</b>	Selective Catalytic Reduction
<b>IDER</b>	Integrated Distribution Energy Resource	<b>SO<sub>2</sub></b>	Sulfur Dioxide
<b>ILB</b>	Illinois Basin	<b>SNCR</b>	Selective Non-Catalytic Reduction
<b>IGCC</b>	Integrated Gasification Combined Cycle	<b>SSO</b>	Standard Service Offer
<b>ITC</b>	Investment Tax Credit	<b>VAR</b>	Volt-Ampere Reactive
<b>KV</b>	Kilovolt	<b>VVC</b>	Voltage/VAR Control
<b>KWH</b>	Kilowatt-hour	<b>WFGD</b>	Wet Flue Gas Desulfurization
<b>LCI</b>	Large Commercial / Industrial Customers	<b>WPSC</b>	Public Service Commission of West Virginia
<b>LNB</b>	Low NOx Burners		

# FirstEnergy Overview



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## FirstEnergy's Strategic Transformation

Gained ownership of six generating plants through an asset swap

- Nuclear: 2,800MW
- Fossil: 3,550MW

Transferred Ohio/Penn Power transmission assets to independent subsidiary (ATSI)

Ohio/Penn Power generation assets transferred to competitive subsidiary, FirstEnergy Solutions

FE-OH Open Market


FE-PA Open Market

ATSI moved to PJM

Announced 3,350 MW of fossil deactivations

1996    1997    1998    2001    2005    2009    2011    2012

Ohio Edison	Ohio Edison merges with Centerior Energy	FirstEnergy merges with General Public Utilities	FirstEnergy merges with Allegheny Energy	FirstEnergy
Strategic base for growth	<i>Doubled size; focus on maximizing operating efficiencies; debt reductions; increased cash flow</i>	<i>Leveraged generating capacity; increased customer base; expanded East to accelerate retail strategy</i>	<i>Increased super-critical fossil generation; moved to eastern unregulated markets; created largest contiguous customer base</i>	<i>Well positioned for growth</i>
5,700 MW	<b>Generation: 250+%</b>			18,200 MW Competitive 2,300 MW Regulated
1 million	<b>Customers: 500%</b>			6 million
4,500 miles	<b>Transmission: 400+%</b>			24,000 miles
26,000 miles	<b>Distribution: 800+%</b>			267,000 miles
\$2.5 Billion	<b>Revenue: 500+%</b>			\$15.3 billion
\$9 Billion	<b>Assets: 400+%</b>			\$50 billion



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## FirstEnergy Overview

- Largest regional footprint in U.S.
- Located within well-functioning competitive market (PJM)

- 10 regulated utilities in 6 states
- Diversified generation (nuclear, coal, gas, storage)
- Nearly 100% of competitive generation output low- or non-emitting
- Large owner of transmission, including stand alone assets

- Stable dividend\*
- Focus on improving balance sheet
- Substantial liquidity

- Market focused and asset backed retail strategy
- Multi-channel competitive sales approach
- Well-managed risk

\*Subject to Board of Directors approval

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## A diverse, sizeable and regional asset base

### Regulated Operations

- FE Utilities
  - 10 utilities serving 6 million customers in contiguous six-state region
  - Balanced customer base
  - Strong and stable balance sheet
- FE Transmission
  - Large stand-alone transmission (ATSI, TrAILCo)
  - Growth opportunities
  - Strong and stable cash flow

Provides a solid foundation and supports a strong dividend\*

### Market Based Operations

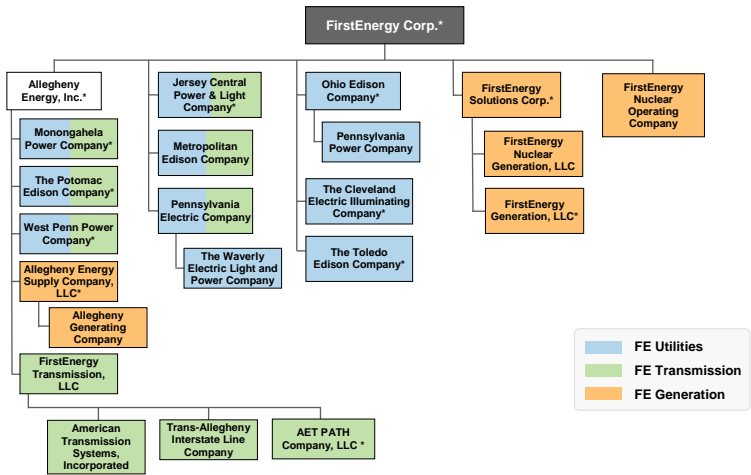
- FE Solutions
  - Regional asset-backed retail strategy
  - Multi sales-channel
  - Well-managed risk
  - Minimum liquidity requirements
- FE Generation
  - Diverse, low cost and clean generation portfolio
  - Well positioned for environmental regulations
  - Manageable environmental CapEx

Provides a growth platform

\*Subject to Board of Directors approval

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## Summary Organizational Structure



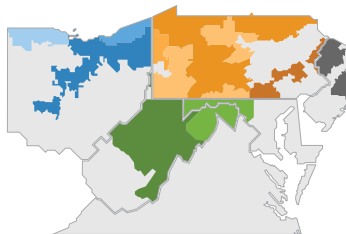
\*Entity has subsidiaries that are not shown

## FirstEnergy Utilities Overview

### 10 Regulated Utilities

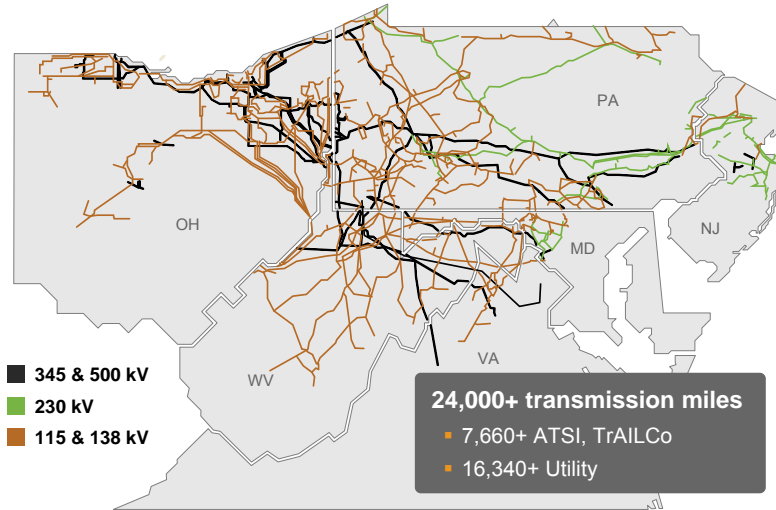
- **Largest contiguous U.S. investor-owned electric utility**
  - 6 million customers in six states (OH, PA, NJ, MD, WV, NY)
  - Geographic and regulatory diversity
  - Strong and stable cash flow
  - Customer sales mix approx. 1/3 residential, 1/3 commercial, 1/3 industrial

State	Thousand Customers
Ohio	2,085
Pennsylvania	2,018
New Jersey	1,099
West Virginia	523
Maryland	254
New York	4
<b>Total</b>	<b>5,983</b>

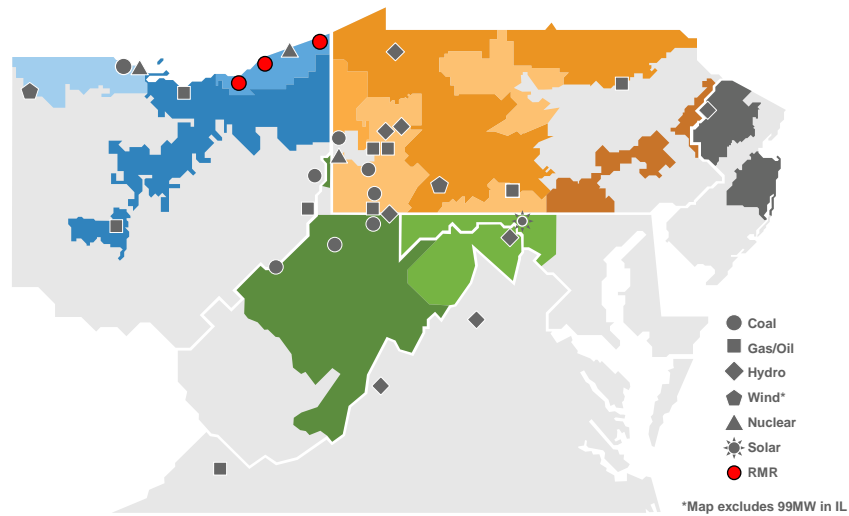


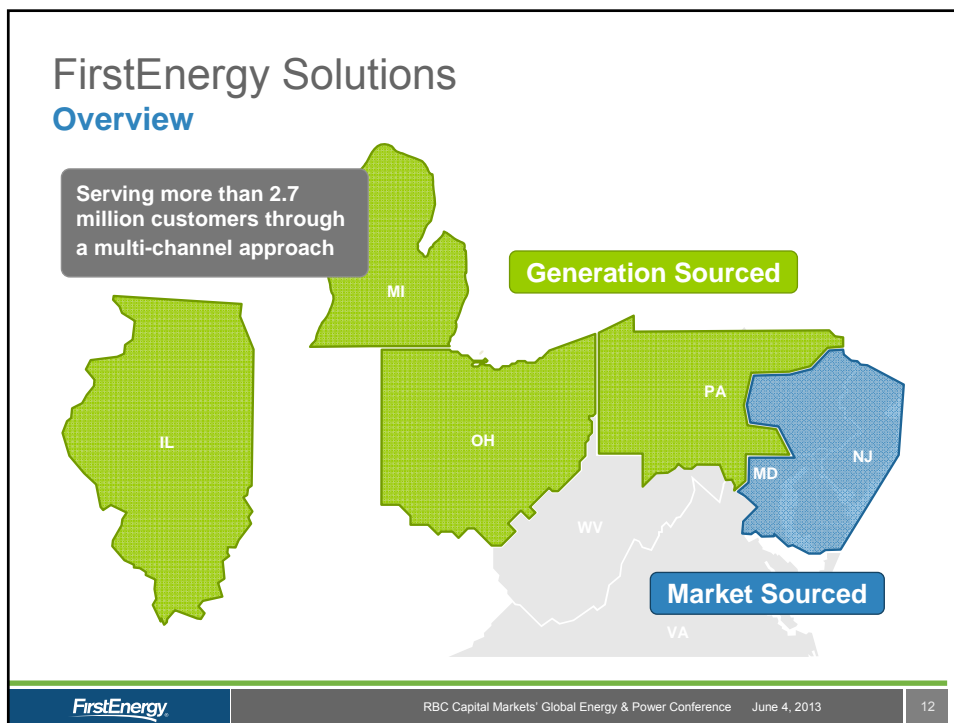
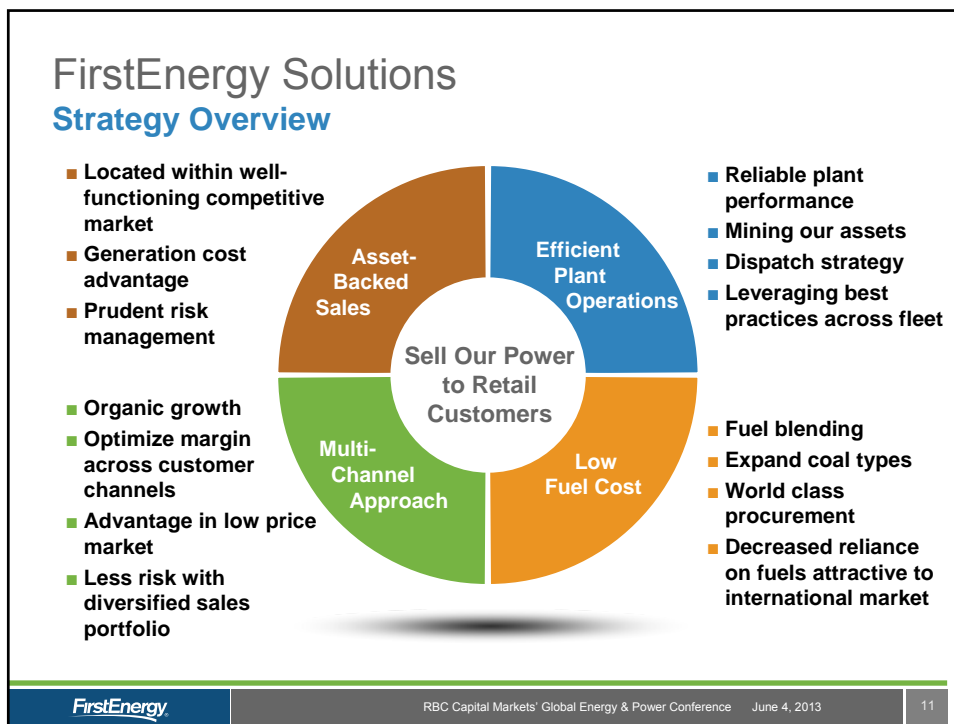


## FirstEnergy Transmission Overview



## FirstEnergy Generation Overview





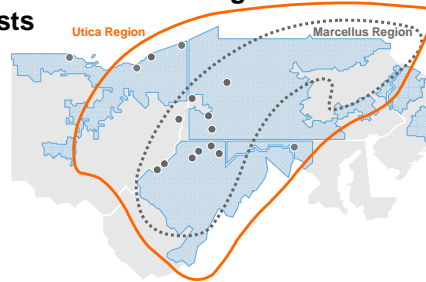
## Leveraging Industrial and Technological Developments in our Region

Revenues/  
Sales

- FE service territory sits on Marcellus and Utica shale
  - Expected increase in industrial demand to support production (steel, pipe)
  - General economic growth in region

Expense/  
Production

- Potential gas co-firing at our coal plants
- Pricing pressure on regional coal supply
- Greater headroom on retail sales through lower congestion costs
- Greater pressure on renewables



## Social Responsibility

## Protecting the Environment

- **We're committed to protecting the environment while delivering safe, reliable and affordable electricity**
- **After the planned deactivation of older, less-efficient coal-fired plants, nearly 100% of the power we generate will come from low- or non-emitting sources**
  - One of our region's largest providers of renewable energy
- **From 1990 to 2012, we reduced emissions of NO<sub>x</sub> by more than 80%, SO<sub>2</sub> by more than 90%, and mercury by about 70% with additional reductions expected to continue over the next 4 years**
  - Emission rates for SO<sub>2</sub>, NO<sub>x</sub> and CO<sub>2</sub> compare favorably with other generating systems in our region

## Protecting the Environment

- **Since 1970, we've invested more than \$10 billion in environmental protection efforts**
- **We expect to spend an estimated \$925 million over the next several years to ensure our fossil units comply with new EPA MATS regulations**
- **Working with policymakers to develop appropriate response to reduce global CO<sub>2</sub> emissions**



## Protecting the Environment

- Helping customers better manage their energy use through energy efficiency programs offered by our utility companies
- Working on smart grid projects to improve operation of transmission and distribution system
- Conducting a multi-year test of utility-scale fuel cell system
- Supporting Plug-in Electric Vehicle (PEV) R&D through the Electric Power Research Institute (EPRI), local universities and other research partners
- Collaborating with EPRI, automotive companies and other key stakeholders to ensure compatibility of PEVs with utility grid



## Advancing Good Corporate Governance Practices

- **FirstEnergy's policies and practices aim to ensure shareholders' interests are represented independently and thoughtfully**
  - Rigorous standards for accountability, effective internal controls and financial reporting
  - High standards of corporate governance
- **Employees at every level are guided by our Code of Business Conduct**
  - Establishes standards for business and legal conduct
  - Supports culture of good judgment and personal integrity



## Promoting Public Health and Safety

- **Health and safety are core values that shape our decisions at every level. As a company,**
  - We dedicate ourselves to achieving best-in-class safety results
  - Our OSHA rate is less than one injury per 200,000 hours worked
- **We strive to provide employees with a safe working environment and the tools, technology, leadership and training to support an accident-free workplace**



## Supporting the People and Communities We Serve

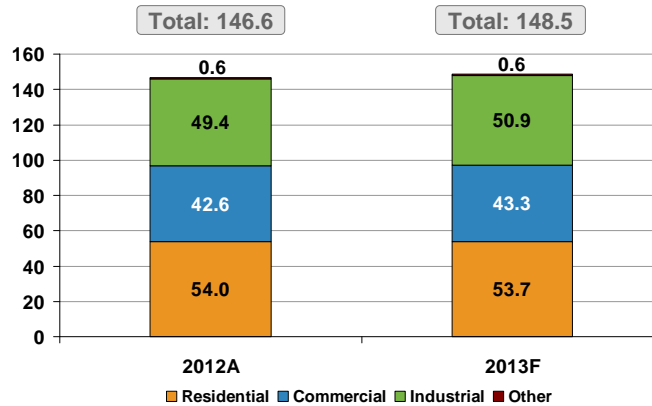
- **Our economic development efforts have helped attract nearly \$30 billion in capital investment and create more than 62,000 jobs over the past 10 years**
- **Since 2001, FirstEnergy Foundation has awarded more than \$56 million in grants to over 3,500 community organizations**
- **Donated nearly \$20 million to Habitat for Humanity since 2001**
- **Purchase nearly \$3 billion in goods and services annually (excludes fuel and purchased power)**
- **Named as one of the Top 100 Military-Friendly Employers® by *G.I. Jobs* magazine**

## Utility Operations

FirstEnergy Utilities

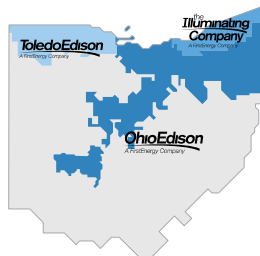
## Distribution Deliveries 2012 & 2013 Forecasted Deliveries

Million MWH

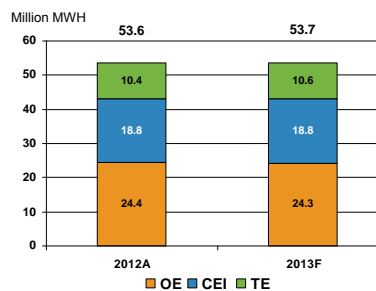
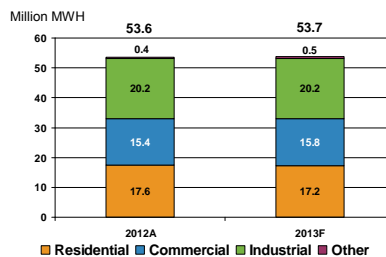


Note: Forecasted sales assume normal weather. Includes state energy efficiency mandates of 2.8 Million MWH in 2012 (actual) and 4.6 Million MWH in 2013 (forecast).

## Ohio Distribution Sales

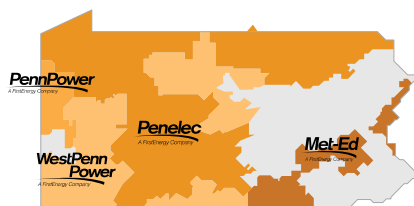


Total Customers (in thousands)	
Ohio Edison (OE)	1,032
Cleveland Electric Illuminating Company (CEI)	745
Toledo Edison (TE)	308
<b>Total</b>	<b>2,085</b>

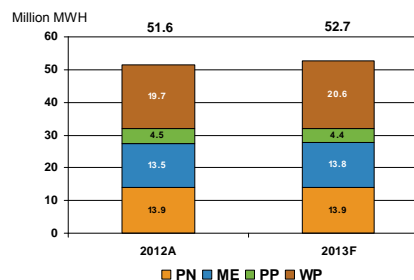
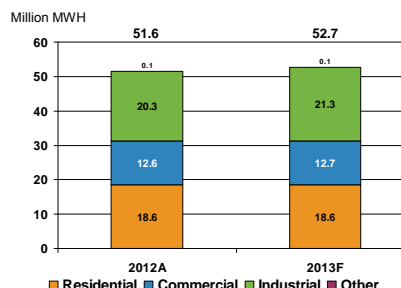


Note: Forecasted sales assume normal weather.  
Includes forecast for state energy efficiency mandates.

## Pennsylvania Distribution Sales



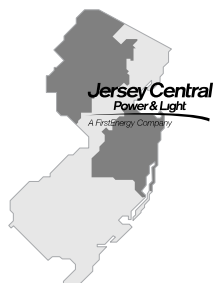
Total Customers (in thousands)	
Penelec (PN) (Includes NY)	590
Met-Ed (ME)	554
Penn Power (PP)	161
West Penn Power (WP)	717
<b>Total</b>	<b>2,022</b>



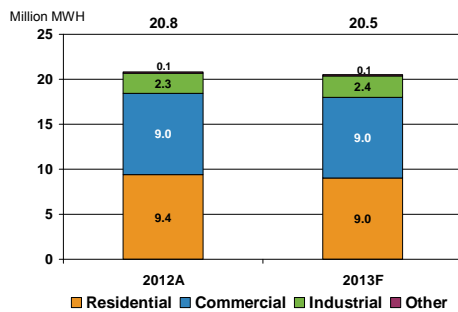
Note: Forecasted sales assume normal weather.  
Includes forecast for state energy efficiency mandates.



## New Jersey Distribution Sales



Total Customers (in thousands)	
Jersey Central Power & Light	1,099

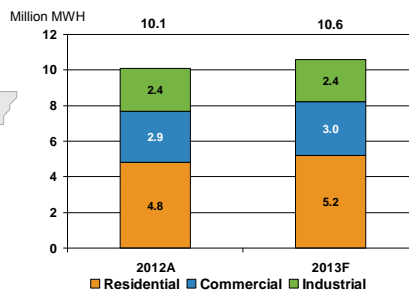


Note: Forecasted sales assume normal weather.  
Includes forecast for state energy efficiency mandates.

## Maryland/West Virginia Distribution Sales

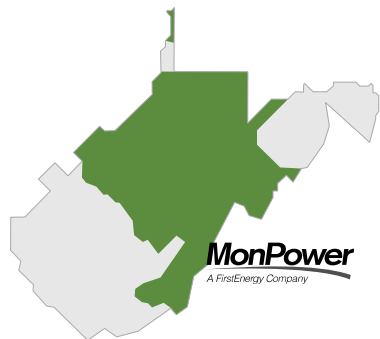


Total Customers (in thousands)	
Potomac Edison	390

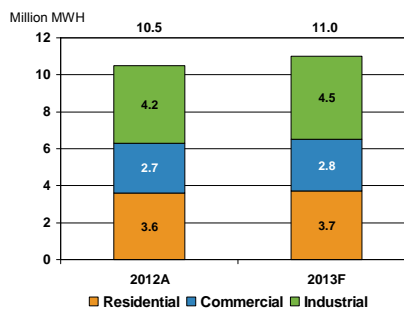


Note: Forecasted sales assume normal weather.  
Includes forecast for state energy efficiency mandates.

## West Virginia Distribution Sales



Total Customers (in thousands)	
Mon Power	387



Note: Forecasted sales assume normal weather. Includes forecast for state energy efficiency mandates.

## Rate Base

Company	Rates Effective	Rate Base (\$ millions)	Allowed ROE
Ohio Edison	January 2009	\$1,251	10.5%
Penn Power	May 1988	\$654	12.9%
Cleveland Electric Illuminating	May 2009	\$984	10.5%
Toledo Edison	January 2009	\$414	10.5%
Jersey Central Power & Light	June 2005	\$2,080	9.75%
Met-Ed	January 2007	\$969	10.1%
Penelec	January 2007	\$1,068	10.1%
West Penn Power	December 1994	\$1,830	11.5%
Potomac Edison – WV Mon Power	May 2007	\$1,184	10.5%
Potomac Edison – MD	February 1993	\$581	11.9%

As of most recent Rate Case approved by respective state commissions. Rate Base can include distribution, transmission and generation assets but actual required revenues are adjusted to reflect current rate structure.

## Regulatory Update

### Ohio ESP 3

- Approved by the PUCO on July 18, 2012
- Plan covers June 1, 2014 thru May 31, 2016; essentially extends the terms of existing ESP 2
- Stabilizes pricing by modifying the POLR competitive bidding schedule
- Freezes base distribution rates through May 31, 2016
- Continues Delivery Capital Recovery rider to earn a return on and of incremental distribution plant in service since last rate case
  - Up to \$405M in revenue over the two-year term
- Continues collection of lost distribution revenues associated with energy efficiency and peak demand reduction programs
- Extends recovery period for RECs costs (with carrying charges) – reducing then current monthly charges for non-shopping customers by more than 50 percent
- Provides PIPP customers with 6% discount off their price-to-compare with wholesale generation supply provided by FE Solutions

## Regulatory Update

### Ohio ESP – Delivery Capital Recovery Rider

Recovery Period	Revenue Cap (\$ millions)
Jan 2012 – Dec 2012	\$150
Jan 2013 – Dec 2013	\$165
Jan 2014 – May 2014	\$75
Jun 2014 – May 2015	\$195
Jun 2015 – May 2016	\$210

- Individual company revenue caps are determined by the following percentages applied to the total revenue cap
  - CEI: up to 70%
  - OE: up to 50%
  - TE: up to 30%
- Any recovery period shortfall or overage will be applied to the subsequent period

## Regulatory Update

### Proposed Harrison and Pleasants Asset Transfer\*

- **Mon Power and Potomac Edison initial filing with the WVPSC on November 16, 2012**
  - Agreed to file base rate case within six months after transaction is completed
  - Company rebuttal testimony filed May 17
  - Hearings held May 29 - May 31
- **Mon Power buys AE Supply's remaining ownership of ~80% (1,576 MW) Harrison Plant**
  - Mon Power expected to recover all fuel, purchased power and variable O&M costs through its ENEC rider
  - Mon Power expected to recover the remaining Harrison Plant costs initially through temporary surcharge; costs ultimately included in base rates
  - Requested transfer at net book value of ~\$1.2B
- **AE Supply buys Mon Power's ownership of ~8% (100 MW) of Pleasants Plant**
  - Requested transfer at fair value of ~\$70M
- **Received FERC authorization for asset transfer and financing**

\*Subject to regulatory approval

## Regulatory Update

### JCP&L Rate Case\*

- **November 30, 2012: Rate Case filed**
- **February 22, 2013: Filing updated to include Hurricane Sandy costs**
  - Requested annual base distribution rate increase of \$112M, which represents a 4.1% increase in overall rates
  - Proposed an Accelerated Reliability Enhancement Program rate recovery mechanism for any necessary accelerated capital investment for potentially higher than standard service and reliability levels
- **March 20, 2013: BPU established a generic proceeding to review prudence of storm costs for 2011 and 2012.**
  - Prudence review of all New Jersey utilities' storm costs will be conducted within the context of the generic proceeding
  - By July 1, 2013, each utility is to file a detailed report of its storm costs for which it intends to seek recovery from ratepayers in a pending or future rate case
- **April 4, 2013: JCP&L filed a Motion for Reconsideration to leave storm costs in the base rate case. If BPU does not approve, then the motion requests the case be put on hold pending conclusion of generic proceedings.**
- **September 12 – October 17, November 19 – 20, 2013: Evidentiary hearings scheduled in base rate case**
- **Q1 2014 or Q2 2014: Resolution of base rate case expected**

\*Subject to regulatory approval

## Net Regulatory Asset Amortization 2012 - 2013

(\$ Millions)

State	2012A**	2013F
Ohio*	\$131	\$100
Pennsylvania	\$133	\$10
New Jersey	\$52	\$10
West Virginia / Maryland	(\$9)	(\$10)
<b>Total</b>	<b>\$307</b>	<b>\$110</b>

\*Includes ATSI

\*\*Excludes \$375M of deferred storm costs

## Procurement Schedule Ohio Edison, Cleveland Electric Illuminating, Toledo Edison

ESP III		Delivery Period		
Auction	Tranches Bid*	June 2013 – May 2014	June 2014 – May 2015	June 2015 – May 2016
Jan-13	17	36 Months		
Oct-13	16		12 Months	
	17		24 Months	
Jan-14	16		12 Months	
	17		24 Months	
Oct-14	16			12 Months
Jan-15	16			12 Months

\*Each tranche represents 1% of the actual hourly energy required to serve SSO load  
Full-Requirements Tranche Products

# Procurement Schedule

## Met-Ed

### Met-Ed Default Service Supply Plan • June 1, 2013 to May 31, 2015

#### Residential Full Requirements Tranche Procurement Schedule\*

		Delivery Period							
Auction	Tranches Bid	6/1/13	11/30/13	12/1/13	5/31/14	6/1/14	11/30/14	12/1/14	5/31/15
Jan-13	12	24 months							
Feb-13	12	12 months							
Jan-14	12	12 months							

#### Commercial Tranche Procurement Schedule

		Delivery Period							
Auction	Tranches Bid	6/1/13	11/30/13	12/1/13	5/31/14	6/1/14	11/30/14	12/1/14	5/31/15
Jan-13	11	6 months							
Feb-13	12	12 months							
Sep-13	11	12 months							
Jan-14	12	12 months							
Sep-14	11	6 months							

#### Hourly Pricing Service Tranche Procurement Schedule\*\*

		Delivery Period							
Auction	Tranches Bid	6/1/13	11/30/13	12/1/13	5/31/14	6/1/14	11/30/14	12/1/14	5/31/15
Sep-13	11	18 months							

\* The schedule does not reflect four additional existing fixed block energy only tranches that were procured during the January 2010 auction and which terminate on May 31, 2015.  
 \*\* The Pennsylvania Utilities plan to bid out the 18-month term industrial product during the September 2013 auction unless directed otherwise by the PAPUC.

# Procurement Schedule

## Penelec

### Penelec Default Service Supply Plan • June 1, 2013 to May 31, 2015

#### Residential Full Requirements Tranche Procurement Schedule\*

		Delivery Period							
Auction	Tranches Bid	6/1/13	11/30/13	12/1/13	5/31/14	6/1/14	11/30/14	12/1/14	5/31/15
Jan-13	9	24 months							
Feb-13	9	12 months							
Jan-14	9	12 months							

#### Commercial Tranche Procurement Schedule

		Delivery Period							
Auction	Tranches Bid	6/1/13	11/30/13	12/1/13	5/31/14	6/1/14	11/30/14	12/1/14	5/31/15
Jan-13	10	6 months							
Feb-13	10	12 months							
Sep-13	10	12 months							
Jan-14	10	12 months							
Sep-14	10	6 months							

#### Hourly Pricing Service Tranche Procurement Schedule\*\*

		Delivery Period							
Auction	Tranches Bid	6/1/13	11/30/13	12/1/13	5/31/14	6/1/14	11/30/14	12/1/14	5/31/15
Sep-13	11	18 months							

\* The schedule does not reflect three additional existing fixed block energy only tranches that were procured during the January 2010 auction and which terminate on May 31, 2015.  
 \*\* The Pennsylvania Utilities plan to bid out the 18-month term industrial product during the September 2013 auction unless directed otherwise by the PAPUC.

## Procurement Schedule

### Penn Power

Penn Power Default Service Supply Plan • June 1, 2013 to May 31, 2015

MW Residential Full Requirements Tranche Procurement Schedule\*

Auction	Tranches Bid	Delivery Period							
		6/1/13	11/30/13	12/1/13	5/31/14	6/1/14	11/30/14	12/1/14	5/31/15
Jan-13	3	24 months							
Feb-13	3	12 months							
Jan-14	3	12 months							

Commercial Tranche Procurement Schedule\*\*

Auction	Tranches Bid	Delivery Period							
		6/1/13	11/30/13	12/1/13	5/31/14	6/1/14	11/30/14	12/1/14	5/31/15
Jan-13	3	6 months							
Feb-13	4	12 months							
Sep-13	3	12 months							
Jan-14	4	12 months							
Sep-14	3	6 months							

Hourly Pricing Service Tranche Procurement Schedule\*\*

Auction	Tranches Bid	Delivery Period							
		6/1/13	11/30/13	12/1/13	5/31/14	6/1/14	11/30/14	12/1/14	5/31/15
Sep-13	3	18 months							

\* The schedule does not reflect two additional existing fixed block energy only tranches that were procured during the January 2010 auction and which terminate on May 31, 2015.  
 \*\* The Pennsylvania Utilities plan to bid out the 18-month term industrial product during the September 2013 auction unless directed otherwise by the PAPUC.

## Procurement Schedule

### West Penn Power

West Penn Power Company Default Service Supply Plan • June 1, 2013 to May 31, 2015

MW Residential Tranche Procurement Schedule

Auction	Tranches Bid	Delivery Period							
		6/1/13	11/30/13	12/1/13	5/31/14	6/1/14	11/30/14	12/1/14	5/31/15
Jan-13	15	24 months							
Feb-13	15	12 months							
Jan-14	15	12 months							

Commercial Tranche Procurement Schedule

Auction	Tranches Bid	Delivery Period							
		6/1/13	11/30/13	12/1/13	5/31/14	6/1/14	11/30/14	12/1/14	5/31/15
Jan-13	9	6 months							
Feb-13	10	12 months							
Sep-13	9	12 months							
Jan-14	10	12 months							
Sep-14	9	6 months							

Industrial Hourly Pricing Service Tranche Procurement Schedule\*

Auction	Tranches Bid	Delivery Period							
		6/1/13	11/30/13	12/1/13	5/31/14	6/1/14	11/30/14	12/1/14	5/31/15
Sep-13	12	18 months							

\* The Pennsylvania Utilities plan to bid out the 18-month term industrial product during the September 2013 auction unless directed otherwise by the PAPUC.

## Procurement Schedule Jersey Central Power & Light

### Jersey Central Power & Light Basic Generation Service Supply Plan State-wide procurement process

Approximately 33.3% load annually - 100 MW Fixed Price Full Requirements Tranches – Residential & Small Commercial

Auction	Tranches Bid	Delivery Period					
		June 2013	June 2014	June 2015	May 2016	May 2017	May 2018
Feb-13	18	36 months					
Feb-14	15	36 months					
Feb-15	20	36 months					

100% load annually - 75 MW Hourly Priced Full Requirements Tranches – Large Commercial Industrial

Auction	Tranches Bid	Delivery Period		
		June 2013 – May 2014	June 2014 – May 2015	June 2015 – May 2016
Feb-13	14	12 months		
Feb-14	14		12 months	
Feb-15	14			12 months

## Procurement Schedule Potomac Edison – Maryland

Load Type	Tranches Bid	Auction Date	Delivery Period		
			June 2013 - May 2014	June 2014 - May 2015	June 2015 - May 2016
Residential	2	January 2013	12 Months		
	2		24 Months		
Residential	2	April 2013		12 Months	
	1		24 Months		
Residential	2	June 2013		12 Months	
	1		24 Months		

Load Type	Tranches Bid	Auction Date	Delivery Period		
			March 2013 - May 2013	June 2013 - Aug 2013	Sept 2013 - Nov 2013
Medium Non-Residential	3	January 2013	3 Months		
Medium Non-Residential	3	April 2013		3 Months	
Medium Non-Residential	3	June 2013			3 Months

All tranches are for full requirements service.



### Renewable Energy Requirements Update

	OH	PA	NJ	WV	MD
Year	2024	2021	2021	2025	2022
Requirements	12.5%	18.5%	23.85%	25%	20%
Class/Tier I – Non Solar	12.0%	8.0%	17.9%	–	18%
Solar	0.5%	0.5%	3.47%	–	2%
Class/Tier II	–	10.0%	2.5%	–	2.5% until 2018
Solar	<ul style="list-style-type: none"> <li>Solar PV and Solar Thermal</li> </ul>	<ul style="list-style-type: none"> <li>Solar PV and Solar Thermal</li> </ul>	<ul style="list-style-type: none"> <li>Solar PV and Solar Thermal</li> </ul>	<ul style="list-style-type: none"> <li>Solar PV and Solar Thermal</li> </ul>	<ul style="list-style-type: none"> <li>Solar PV, Solar Thermal &amp; Solar Water Heating</li> </ul>
Class/Tier I/ Renewable Energy Resources	<ul style="list-style-type: none"> <li>Solar</li> <li>Wind</li> <li>Hydro</li> <li>Geothermal</li> <li>Solid waste *</li> <li>Biomass</li> <li>Fuel cells</li> <li>Storage *</li> <li>Distributed generation*</li> <li>Certain advanced energy resources *</li> </ul>	<ul style="list-style-type: none"> <li>Solar Photovoltaic</li> <li>Solar Thermal</li> <li>Wind</li> <li>Low-impact hydro</li> <li>Geothermal</li> <li>Biomass</li> <li>Methane gas *</li> <li>Coal-mine methane</li> <li>Fuel cells</li> <li>Wood byproducts *</li> <li>Large-scale hydro*</li> </ul>	<ul style="list-style-type: none"> <li>Solar</li> <li>Wind</li> <li>Wave / Tidal</li> <li>Geothermal</li> <li>Landfill gas</li> <li>Anaerobic Digestion</li> <li>Fuel cells *</li> <li>Biomass *</li> <li>New small hydro *</li> </ul>	<ul style="list-style-type: none"> <li>Solar</li> <li>Wind</li> <li>Natural, Synthetic and Landfill Gas</li> <li>Hydroelectric</li> <li>Geothermal</li> <li>Fuel Cells</li> <li>Municipal Solid Waste</li> <li>Anaerobic Digestion</li> <li>Small Hydro</li> <li>Biodiesel</li> <li>Certain Advanced Coal Generation</li> </ul>	<ul style="list-style-type: none"> <li>Solar</li> <li>Wind including Off-Shore*</li> <li>Biomass</li> <li>Landfill Gas</li> <li>Small Hydro</li> <li>Geothermal Electric</li> <li>Fuel Cells</li> <li>Municipal Solid Waste</li> <li>Ocean</li> <li>Poultry litter incineration</li> <li>Waste-to energy</li> <li>Refuse derived</li> </ul>
Class/Tier II Advanced/Alternative Energy Resources	<ul style="list-style-type: none"> <li>N/A</li> </ul>	<ul style="list-style-type: none"> <li>Waste coal</li> <li>Distributed generation</li> <li>DSM</li> <li>Large hydro</li> <li>Muni solid waste</li> <li>Wood byproducts *</li> <li>IGCC coal</li> <li>Pumped-storage hydro</li> </ul>	<ul style="list-style-type: none"> <li>Small hydro</li> <li>Resource recovery</li> </ul>	<ul style="list-style-type: none"> <li>N/A</li> </ul>	<ul style="list-style-type: none"> <li>Hydro (excluding pumped storage)</li> </ul>
REC life	5 years	3 years	3 years	Unlimited	3 years
Other Provisions	50% must be in-state	Quarterly Adjustments to Tier I Non-Solar %	Solar must be in-state; Solar obligations stated in GWH	In-state or PJM territory	Solar must be in-state

\*Additional restrictions and provisions apply

### Energy Efficiency Mandates and Progress

	Ohio	Pennsylvania
State Goals	Senate Bill 221	PA Act 129
Energy Efficiency	3.2% in 2013 (1,725 GWh) 4.2% in 2014 (2,306 GWh) 5.2% in 2015 (2,903 GWh)	3.0% by 5/31/2013 (1,649 GWh) By 5/31/2016 (1,090 GWh) – Phase II <ul style="list-style-type: none"> <li>Met-Ed +2.3% (338 GWh)</li> <li>Penelec +2.2% (319 GWh)</li> <li>Penn Power +2.0% (95 GWh)</li> <li>West Penn Power +1.6% (338 GWh)</li> </ul>
Demand Response	4.0% in 2013 (463 MW) 4.75% in 2014 (551 MW) 5.5% in 2015 (622 MW)	4.5% by 5/31/2013 (428 MW) No peak demand targets in Phase II
Smart Meter	No Smart Meter requirement. However, ARRA Smart Grid Investment Grant provided for limited AMI pilot program deployment	Smart Meters with AMI required * Mandatory deployment within 15 year depreciation cycle
Status		
Smart Meter	Phase I installed and operational (5k meters) PUCO reviewing Phase II expansion (additional 39k meters)	Full 2.0M Meter deployment plan filed 12/31/2012 24,000 meters deployed for EE pilot at West Penn for 2012
Cost Recovery for EE	In Place	In Place
Compliance	<ul style="list-style-type: none"> <li>2012 compliance requirements met</li> <li>2013 – 2015 Portfolio Plan approved by PUCO on 3/20/2013</li> </ul>	<ul style="list-style-type: none"> <li>Met 1% MWH reduction goals by 5/31/2011 at Met-Ed, Penelec and Penn Power</li> <li>Fell short of 1% MWH reduction goal by 5/31/2011 at West Penn</li> <li>On track to meet EE/DR May 2013 targets</li> <li>6/2013 – 5/2016 Phase II Portfolio Plan approved by PAPUC on 3/13/13</li> </ul>

## Energy Efficiency Mandates and Progress


	New Jersey	Maryland	West Virginia
State Goals	Energy Master Plan (EMP)	EmPower MD	Base Rate Case and Merger Settlements
Energy Efficiency	2008 EMP goal of 20% usage reduction by 2020 (State Goal)	10.0% per capita by 12/31/2015 (415 GWh)	0.5% of 2009 Sales by 12/31/2016 (67 GWh)
Demand Response	17% by 2020 of 2011 Demand Forecast (State Goal)	15.0% per capita by 12/31/2015 (21 MW)	0.5% of 2009 Demand by 12/31/2016 (14 MW)
Smart Meter	N/A	N/A	N/A
Smart Meter	N/A	N/A	N/A
Cost Recovery for EE	In Place	In place – 5 year amortization schedule with carrying costs and annual reconciliation	In Place
Compliance	<ul style="list-style-type: none"> <li>Current EE programs run by the State's Office of Clean Energy</li> </ul>	<ul style="list-style-type: none"> <li>Achieved 5% per capita target for 2011</li> <li>Only EDC in MD to meet target</li> <li>2012-2014 EmPower plan in place</li> <li>On track to achieve EE/DR 2015 targets</li> </ul>	<ul style="list-style-type: none"> <li>2012-2016 Portfolio Plan Filing approved 12/30/11</li> <li>On track to achieve EE/DR 2016 targets</li> </ul>


## Smart Grid

Cross-cutting* Technologies/Programs	CEI (\$71M)	Met-Ed (\$31M)	JCP&L (\$14M)
Distribution Automation	✓	✓	
Volt / VAR Control	✓	✓	
Consumer Behavior Study	✓		
Integrated Distributed Energy Resource Direct Load Control		✓	✓

- Period of performance = 60 months (June 2, 2010 – June 1, 2015)
- Implementation = first 3 years and data collection for balance of period
- Fully reimbursable via federal grant and state approved riders

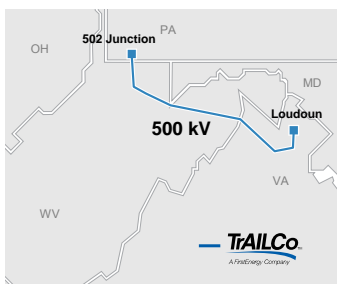
\*Cross-cutting describes a project that includes communications and control systems that support more than one component of the smart grid

	<h1>Transmission Operations</h1> <hr/> <h2>FirstEnergy Transmission</h2>	
	RBC Capital Markets' Global Energy & Power Conference June 4, 2013	45

<h2>FirstEnergy Transmission</h2> <h3>Strategy Overview</h3> <ul style="list-style-type: none"><li>■ <b>Leverage existing resources across entire “footprint”</b><ul style="list-style-type: none"><li>– Transmission subsidiaries (TrAILCo, ATSI)</li><li>– Organizational capabilities acquired in AYE merger</li></ul></li><li>■ <b>Segment growth</b><ul style="list-style-type: none"><li>– Align investment approach<ul style="list-style-type: none"><li>– Reliability</li><li>– Aging infrastructure</li><li>– Coal-fired unit deactivations*</li></ul></li><li>– Seek FERC ratemaking incentives where appropriate<ul style="list-style-type: none"><li>– Enhanced ROEs, CWIP</li></ul></li><li>– Maximize use of formula rates for transmission investments</li></ul></li></ul> <p><small>*After fulfilling RMR arrangements</small></p>		
	RBC Capital Markets' Global Energy & Power Conference June 4, 2013	46

## Stand-Alone Transmission Operations

### TrAILCo



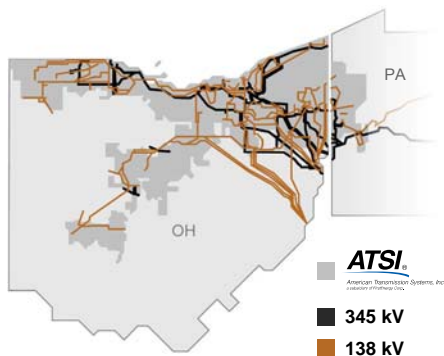
- TrAIL placed in service on May 19, 2011
- Capital spend primarily dedicated to several substation projects

	Rate Base*	FERC Approved ROE	Capital Expenditures (millions)	
			2012A	2013F
TrAILCo	\$1.1B	12.7% TrAIL Project 11.7% All Other	\$89	\$79

\*As of March 31, 2013

## Stand-Alone Transmission Operations

### ATSI



- Owns and operates transmission assets in Cleveland Electric, Toledo Edison and Ohio Edison/Penn Power service territories
- Planned projects in 2012 – 2016
  - Conversion of deactivated generating units to synchronous condensers
  - Construction and expansion of several substations
  - Other transmission expansion projects including new 345kV lines

	Rate Base*	FERC Approved ROE	Capital Expenditures (millions)	
			2012A	2013F
ATSI	\$630M	12.4%	\$180	\$210

\*As of June 1, 2012

## Transmission Outlook

### Projects Related to Generation Deactivation

- ~ \$700 million\* utilizing ATSI and TrAILCo to address reliability issues related to coal unit deactivations within FE footprint
- Projects identified and approved through PJM RTEP process
- Stable, predictable and attractive financial returns

Capital Expenditures (\$ millions)			
2013F	2014F	2015F	2016F
\$150M	← ~ \$550M* →		

Synchronous condenser conversions	New lines	Other major projects
<ul style="list-style-type: none"> <li>■ Eastlake Units 4-5</li> <li>■ Eastlake Units 1-3</li> <li>■ Lakeshore</li> </ul>	<ul style="list-style-type: none"> <li>■ 90+ mile 345 kV line: Bruce Mansfield to Cleveland area</li> <li>■ Various shorter 69 kV – 345 kV transmission lines</li> </ul>	<ul style="list-style-type: none"> <li>■ Substation expansions</li> <li>■ Static VAR compensators</li> <li>■ Control building relocations</li> </ul>

\* Forecast subject to modifications based on updates resulting from PJM RTEP planning process

## Transmission Outlook

### Other 2013 Infrastructure Investments

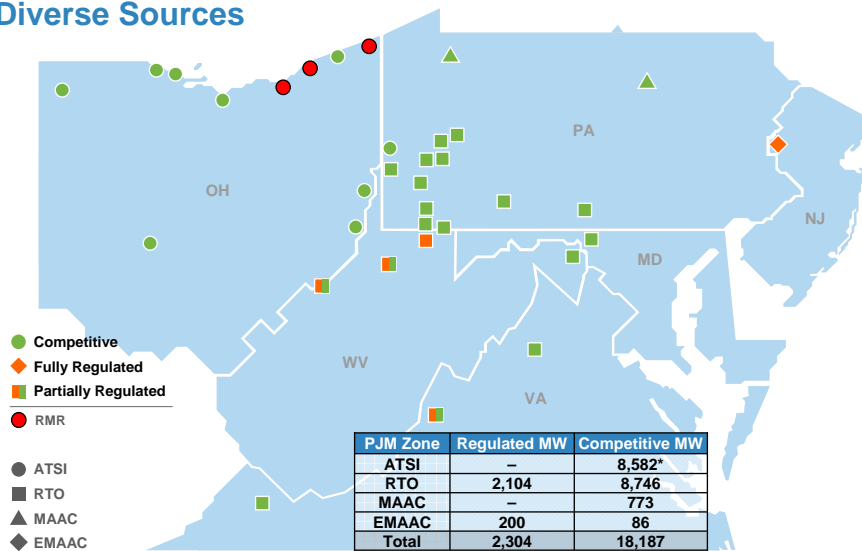
- **\$140M – additional RTEP transmission projects (not related to generator retirements) utilizing ATSI and TrAILCo formula rate recovery**
  - Primarily for reliability improvement
- **\$165M – transmission projects at FE Utilities (JCP&L, ME, PN, WP, MP, PE)**
  - Aging infrastructure repair and replacement
  - Multi-year Local Infrastructure and Transmission Enhancement (LITE) program in the JCP&L footprint

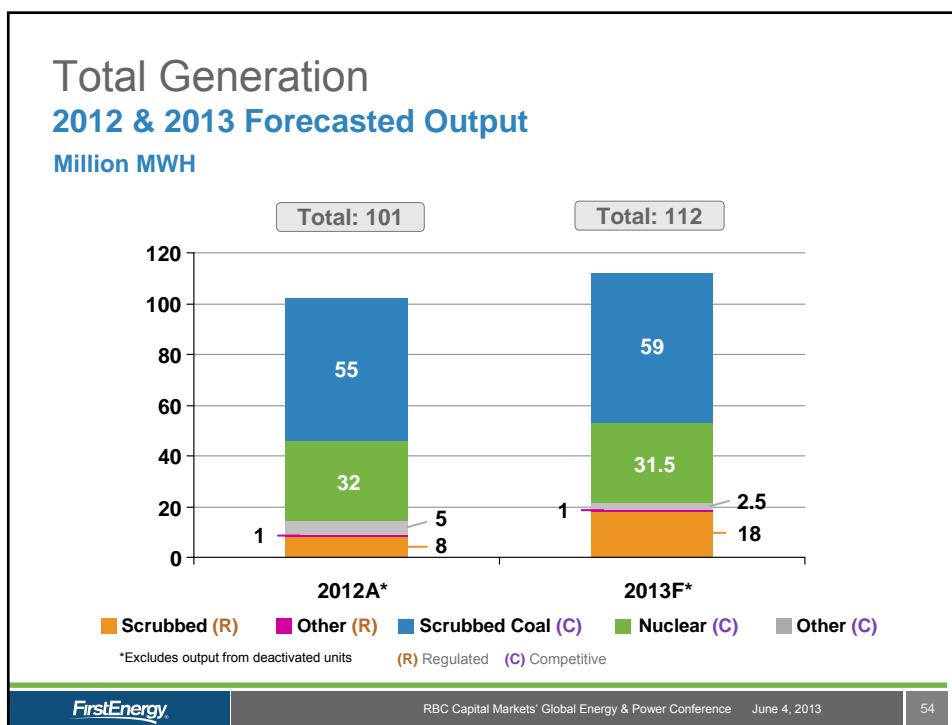
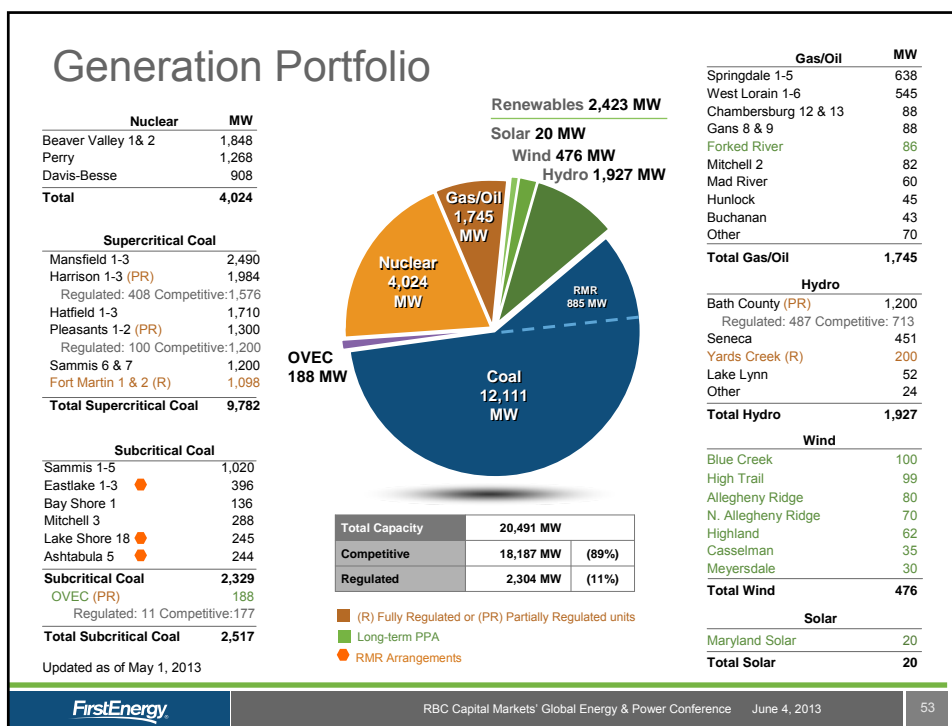
## Generation Operations

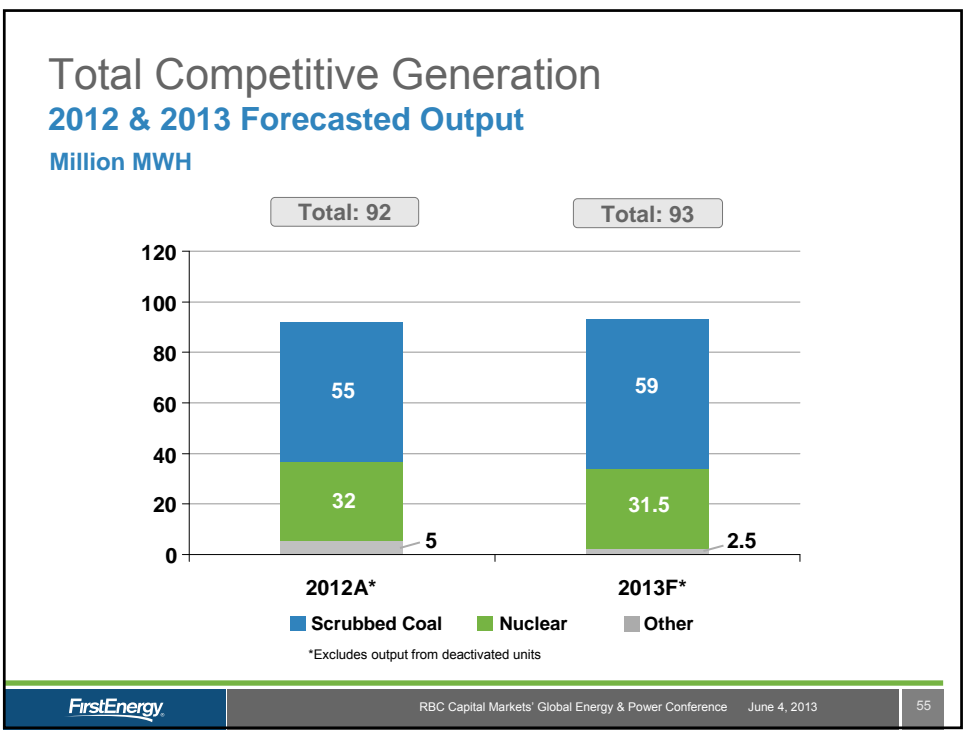
### FirstEnergy Generation

## Generation Portfolio

### Diverse Sources







### Plant Deactivations

- 2,464 MW deactivated as of September 1, 2012
- 885 MW RMR arrangements

Competitive	NDC MW	RMR MW	2012 Million MWH	2012 Capacity Factor (%)
Eastlake 1-5	1,233	396 (1-3)*	4.5	53
Bay Shore 2-4	495	-	0.4	12
Armstrong	356	-	0.3	16
Lake Shore 18	245	245*	0.2	9
Ashtabula 5	244	244**	0.2	12
R. Paul Smith 3-4	116	-	0.1	12
<b>Total</b>	<b>2,689</b>	<b>885</b>	<b>5.7</b>	

Regulated	NDC MW	2012 Million MWH	2012 Capacity Factor (%)
Albright	292	0.2	7
Rivesville	126	0.0	0
Willow Island	242	0.0	1
<b>Total</b>	<b>660</b>	<b>0.2</b>	

\*Through April 2015 \*\*Through December 2013



## Generation Portfolio Fossil Environmental Controls

Plant	NDC	NOx Controls					SO <sub>2</sub> Controls		Particulate		Cooling Towers
		SCR	SNCR	COS	LNB	OFA	Scrubbers <sup>1</sup>	Lo-S Fuel	Baghouse	Electro/Other <sup>2</sup>	
Mansfield 1-3	2,490	✓		✓	✓	✓	✓			✓	✓
Harrison 1-3 (Part Reg)	1,984	✓			✓	✓	✓			✓	✓
Hatfield 1-2	1,140				✓	✓				✓	✓
Hatfield 3	570		✓		✓	✓		✓		✓	✓
Pleasants 1-2 (Part Reg)	1,300	✓			✓	✓	✓			✓	✓
Sammis 6 & 7	1,200	✓	✓	✓	✓	✓	✓			✓	✓
Fort Martin 1 & 2 (Reg)	1,098		✓		✓	✓	✓	✓		✓	✓
Sub-total	9,782										
Sammis 1 - 4	720		✓	✓	✓	✓	✓		✓		
Sammis 5	300		✓	✓		✓	✓			✓	
Bay Shore 1 (CFB <sup>3</sup> )	136				3		3		✓		
Mitchell 3	288				✓		✓			✓	
Sub-total	1,444										
Ashtabula 5	244				✓					✓	
Eastlake 1	132					✓				✓	
Eastlake 2	132				✓	✓				✓	
Eastlake 3	132				✓	✓				✓	
Lake Shore 18	245							✓		✓	
Sub-total	865										

<sup>1</sup>Scrubbed coal units have FGD (equipment to remove sulfur from flue gas after combustion)

<sup>2</sup>Particulate Controls can include Venturi Scrubber or Precip

<sup>3</sup>CFB is low emitting for NOx and SO<sub>2</sub>

RMR Subcritical Supercritical

## Environmental Improvements Cleaner FirstEnergy Fleet

### ■ MATS

- Compliance cost estimate of ~\$925M over the next several years
- Additional evaluation still underway including co-firing with natural gas

Plant	Technologies
Mitchell 3	GORE mercury absorption technology, CEMS
Bayshore 1	Fabric filter upgrade, CEMS
Sammis 1-7	ESP Controls, CEMS
Mansfield 1-3	WFGD changes, SCR Changes, Duct Repairs, CEMS
Hatfield 1-3	ESP Changes, ACI, DSI, Air Heater repairs, Duct Repairs, CEMS
Harrison 1-3	ESP changes, Duct Repairs, CEMS
Pleasants 1-2	WFGD Changes, Duct Repairs, CEMS
Fort Martin 1-2	ACI, DSI, Duct Repairs, CEMS

## Capital Expenditures Major Generation Projects

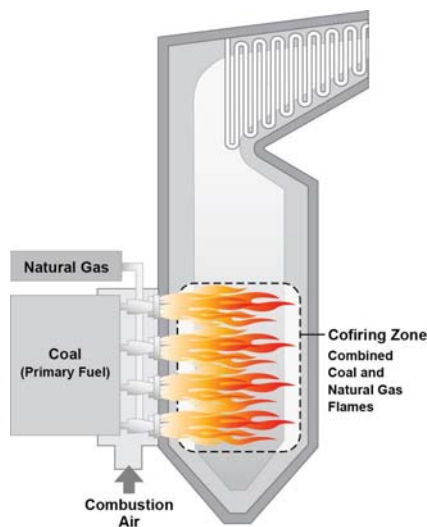
- Modified asset investment strategy
- Balance environmental regulations with our priority to optimize reliability

Major Projects Capital Expenditures	
(\$ millions)	2013F
MATS	\$125
Nuclear	\$265
<b>Total</b>	<b>\$390</b>

Major Nuclear Capital Projects
Replace Low Pressure Turbine Rotors
Nuclear Dry Fuel Storage
Replace Steam Generators (Davis-Besse - 2014, Beaver Valley 2 - 2017)
Japan Response

## Potential Gas Co-firing at Our Coal Plants

- Over the last 14 years, FE has engaged numerous engineering firms to evaluate the prospect of converting and co-firing units
- Most units can be converted to gas co-firing
  - Conversion is only possible when gas pipelines can be upgraded to provide required volume
  - Estimates for pipelines are between \$4M - \$5M per mile for 25% - 40% co-firing capacity
- Under consideration at Hatfield, Mitchell and Mansfield

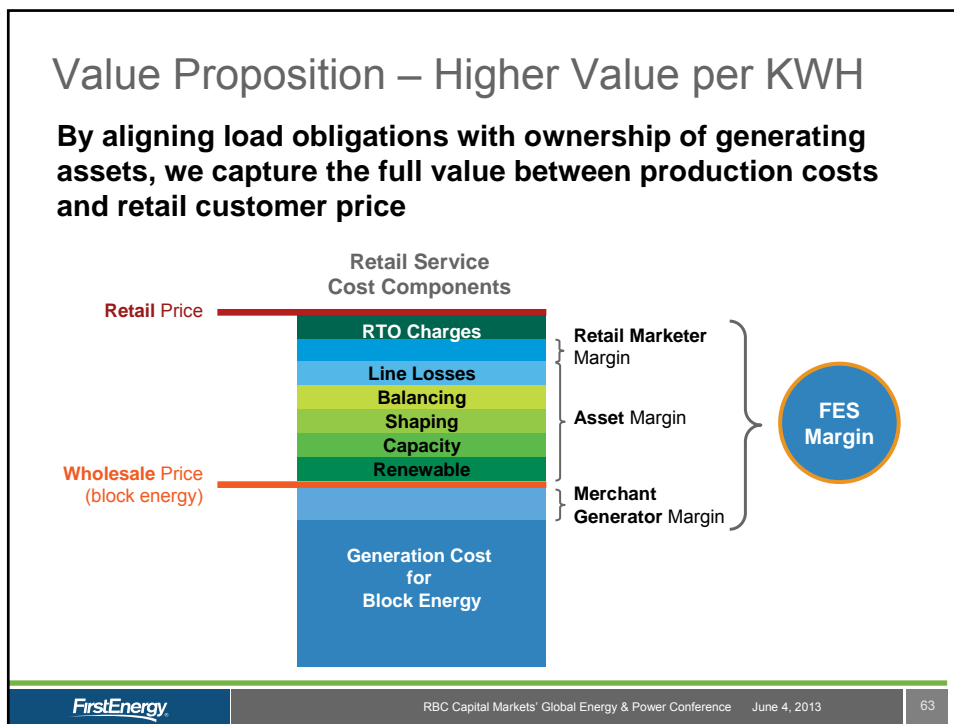


## Generation Portfolio

### Nuclear Key Events

Key Events	Beaver Valley 1 (911 MW)	Beaver Valley 2 (937 MW)	Davis-Besse (908 MW)	Perry (1,268 MW)
License Dates:	2036	2047	License Renewal In Process	Submit License Renewal Application in 2015
2012	<ul style="list-style-type: none"> <li>Completed planned outage</li> </ul>	<ul style="list-style-type: none"> <li>Completed planned outage                             <ul style="list-style-type: none"> <li>Low-pressure turbine rotor replacement</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>Completed planned outage                             <ul style="list-style-type: none"> <li>Perform additional shield building monitoring</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>Implemented dry cask fuel storage</li> <li>Supplemental NRC inspection (95002)</li> </ul>
2013	<ul style="list-style-type: none"> <li>Planned outage                             <ul style="list-style-type: none"> <li>Low-pressure turbine rotor replacement</li> </ul> </li> <li>Prepare for dry fuel storage</li> </ul>	<ul style="list-style-type: none"> <li>Complete fuel pool rerack</li> </ul>		<ul style="list-style-type: none"> <li>Planned outage                             <ul style="list-style-type: none"> <li>Low-pressure turbine rotor replacement</li> </ul> </li> <li>Supplemental NRC inspection (95002)</li> </ul>
2014	<ul style="list-style-type: none"> <li>Implement dry fuel storage</li> </ul>	<ul style="list-style-type: none"> <li>Planned outage</li> </ul>	<ul style="list-style-type: none"> <li>Planned outage                             <ul style="list-style-type: none"> <li>Steam generator replacement</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>Prepare for License Renewal Application submittal</li> </ul>

## FirstEnergy Solutions

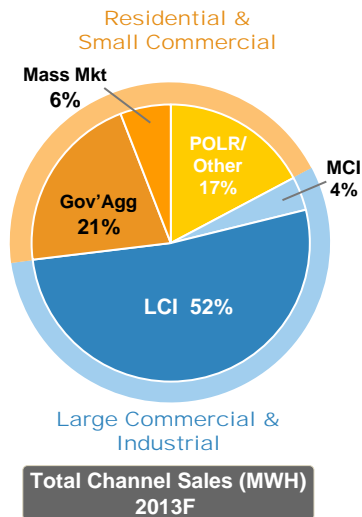


- ### FES Portfolio Strategy
- **Ratable committed sales to support predictable earnings and cash flows**
  - **Portfolio characteristics:**
    - A large portion of LCI book renews mid-year
    - A significant number of Mass Market customers renew between May and August
    - POLR/Supply auctions occur generally in the 1st and 4th quarters of the year for the upcoming planning year
    - Subject to market conditions and customer preference for term
  - **Year-end committed sales targets:**
    - Prompt Year: ~ 90%
    - Prompt Year +1: ~ 60%
  - **Monthly risk limits used to monitor progress towards annual targets**
- FirstEnergy | RBC Capital Markets' Global Energy & Power Conference | June 4, 2013 | 64

## Retail Portfolio

Diverse channel and customer mix ...

State	POLR	Gov Agg	Mass Market	LCI	MCI
Ohio	✓	✓	✓	✓	✓
Pennsylvania	✓		✓	✓	✓
Illinois		✓	✓	✓	✓
New Jersey				✓	✓
Michigan				✓	
Maryland	✓		✓	✓	✓



## FES Channel Sales

Sales Channel	Contract Length	Description
LCI	1-36 months	Commercial or Industrial customer with typical annual usage of over 1,000 MWH. Contracts negotiated on an individual basis.
MCI	1-7 years	Commercial or Industrial customer with typical annual usage between 10 MWH to 1,000 MWH. Contracts negotiated on an individual basis.
Governmental Aggregation	1-9 years	Buying group formed in communities which choose electric supplier for all members in the group. Pricing is fixed or is a percentage discount off the price to compare, which is determined through the default service auctions.
Mass Market	1-7 years	Individual residential and smaller commercial customers. Customer outreach through mailings, sweepstakes, advertisement.
POLR	3-36 months	Tranches of non-shopping load that is won through "open" utilities' default service auctions.
Structured	1-5 years	Includes municipality sales, co-operative sales, bilateral sales, and unique transactions.

## 2012 Sales

Sales Channel	2012A		
	Million MWH	\$ Million	\$/MWH
LCI	51	\$2,730	\$53
MCI	3	\$200	\$60
Gov Agg	18	\$1,030	\$60
Mass Mkt	5	\$350	\$68
<b>Total Direct Retail Sales</b>	<b>77</b>	<b>\$4,310</b>	<b>\$56</b>
POLR	18	\$990	\$55
Structured	5	\$280	\$58
<b>Total Channel Sales</b>	<b>100</b>	<b>\$5,580</b>	<b>\$56</b>

Note: Numbers may not foot due to rounding

## 2013 Sales Targets

Sales Channel	2013F		
	Million MWH	\$ Million	\$/MWH
LCI	54	\$2,770	\$52
MCI	4	\$240	\$60
Gov Agg	22	\$1,250	\$56
Mass Mkt	6	\$390	\$65
<b>Total Direct Retail Sales</b>	<b>86</b>	<b>\$4,650</b>	<b>\$54</b>
POLR	13	\$660	\$51
Structured	5	\$240	\$49
<b>Total Channel Sales</b>	<b>104</b>	<b>\$5,550</b>	<b>\$53</b>
<b>Committed Sales*</b>	<b>103</b>		
<b>% Closed</b>	<b>99%</b>		

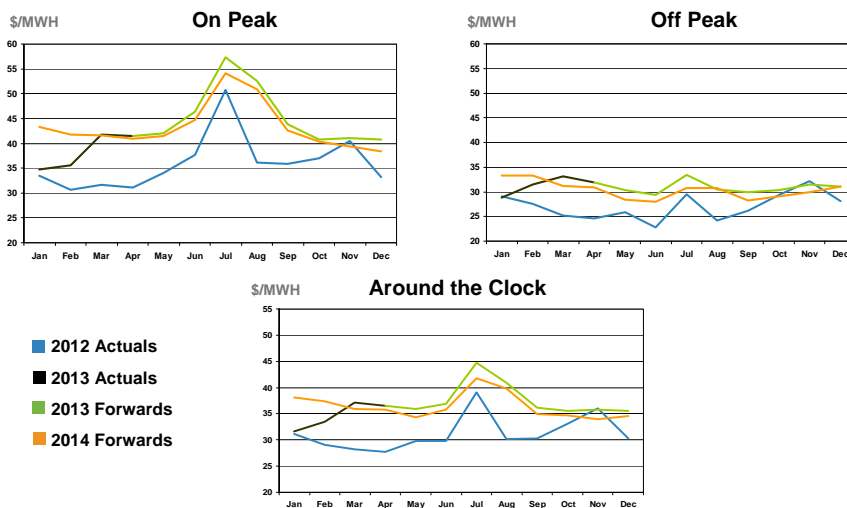
Note: Numbers may not foot due to rounding

\*As of March 31, 2013

## Reliability Pricing Model Capacity Auction Results

		RTO		MAAC	EMAAC
		ATSI	Rest of RTO		
2011 – 2012	FRR Integration Auction	\$108.89	–	–	–
2012 – 2013	FRR Integration Auction	\$20.46	–	–	–
2010-2011	Base Residual Auction	N/A	\$174.29	\$174.29	\$174.29
2011-2012	Base Residual Auction	N/A	\$110.00	\$110.00	\$110.00
2012-2013	Base Residual Auction	N/A	\$16.46	\$133.37	\$139.73
2013-2014	Base Residual Auction	\$27.73	\$27.73	\$226.15	\$245.00
2014-2015	Base Residual Auction	\$125.99	\$125.99	\$136.50	\$136.50
2015-2016	Base Residual Auction	\$357.00	\$136.00	\$167.46	\$167.46
2016-2017	Base Residual Auction	\$114.23	\$59.37	\$119.13	\$119.13

## Power Price Trends AEP-Dayton Hub

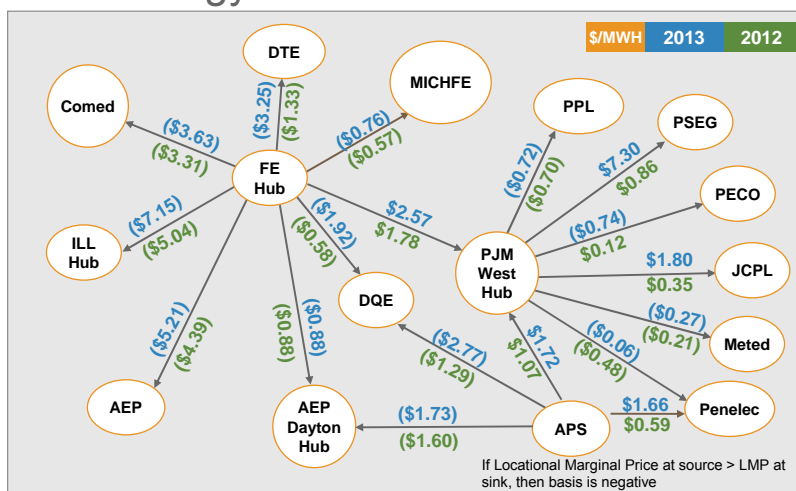


## Fuel Sources

FUEL TYPE	2012A	2013F
Nuclear (\$/MWH)	\$7.60	\$8.10
Fossil (\$/MWH)	\$28	\$28
Total Competitive Fleet (\$/MWH)	\$21	\$22

		Total Fleet - Coal Sources				
	Plants	Units	NAPP	Western	ILB	Petcoke
Supercritical Units	Mansfield	1-3	✓	✓	✓	
	Harrison	1-3	✓			
	Hatfield	1-3	✓		✓	
	Pleasants	1-2	✓		✓	
	Sammis	6-7	✓	✓	✓	
	Fort Martin	1-2	✓	✓	✓	
Subcritical Units	Sammis	1-5	✓	✓	✓	
	Mitchell	3	✓		✓	
	Bay Shore	1				✓
Coal Consumption	2012A	M Tons	22	2	1	1
	2013F	M Tons	28	3	1	1

## Retail Strategy – Basis Risk



- Basis risk mitigated by limiting geographic scope of sales obligation
- Basis risk hedged with basis and financial swaps as well as power transactions at the zones

As of March 31, 2013



## Annual Historical Basis Values

A negative value means the Locational Marginal Price (LMP)\* at the source is greater than the LMP at the sink

Source	Sink	2011 ** (\$/MWH)	2012 (\$/MWH)	2013*** (\$/MWH)
FE Hub	Ill Hub	(7.14)	(5.04)	(7.15)
FE Hub	Comed	(5.31)	(3.31)	(3.63)
FE Hub	DTE	(2.71)	(1.33)	(3.25)
FE Hub	MichFE	0.18	(0.57)	(0.76)
FE Hub	PJM West Hub	4.87	1.78	2.57
FE Hub	DQE	0.16	(0.58)	(1.92)
FE Hub	AEPDAY Hub	(0.04)	(0.88)	(0.88)
FE Hub	AEP	(4.01)	(4.39)	(5.21)
APS	AEPDAY Hub	(4.28)	(1.60)	(1.73)
APS	DQE	(4.08)	(1.29)	(2.77)
APS	PJM West Hub	0.63	1.07	1.72
APS	Penelec	(0.18)	0.59	1.66
PJM West Hub	PPL	2.09	(0.70)	(0.72)
PJM West Hub	PSEG	4.73	0.86	7.30
PJM West Hub	PECO	3.62	0.12	(0.74)
PJM West Hub	JCP&L	4.00	0.35	1.80
PJM West Hub	Met-Ed	2.23	(0.21)	(0.27)
PJM West Hub	Penelec	(0.81)	(0.48)	(0.06)

\*Based on around-the-clock LMPs \*\*FE Hub in PJM starting June 1, 2011 (in MISO January 1 – May 31) \*\*\*As of March 31, 2013

## Financial Overview

FirstEnergy

## Liquidity

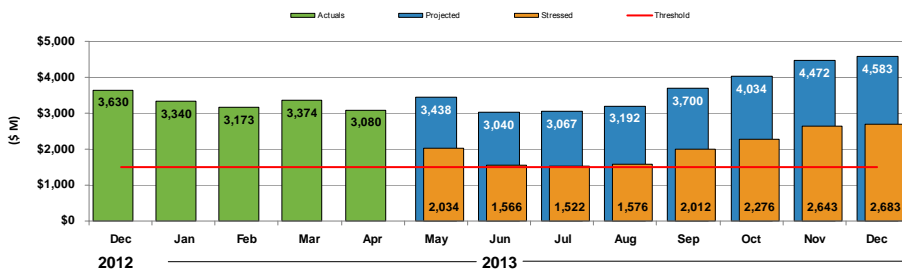
Available Liquidity (\$ Millions)  
As of April 30, 2013

Company	Type	Maturity	Amount	Available
FirstEnergy*	Revolving	May 2017	\$2,000	\$518
FES / AE Supply	Revolving	May 2017	2,500	2,498
FirstEnergy Transmission, LLC (FET)**	Revolving	May 2017	1,000	–
Allegheny Generating Company (AGC)	Revolving	Dec. 2013	50	20
<b>Subtotal:</b>			<b>\$5,550</b>	<b>\$3,036</b>
<b>Cash:</b>			<b>–</b>	<b>44</b>
<b>Total:</b>			<b>\$5,550</b>	<b>\$3,080</b>

\*FirstEnergy Corp. and utility subsidiary borrowers  
\*\*Includes FET, ATSI and TrAIL as subsidiary borrowers

## Liquidity Position

As of April 30, 2013



Stress Factors (Timing)	(\$M)
Contingent Collateral <sup>(1)</sup>	853
Stressed Collateral <sup>(2)</sup>	480
Operational Cash Flow Contingency <sup>(3)</sup>	567
<b>Total Stress for Year-end</b>	<b>\$ 1,900</b>

- Monthly cash flows reflective of historic patterns
- Working capital adjustments may vary with future forecasts

Wholesale markets, weather, the economy and other factors may alter our liquidity position.

(1) Collateral required in the event of a ratings downgrade.

(2) Additional collateral that would need to be posted, above contingent collateral, in the event of unfavorable market prices.

(3) Includes stressed liquidity position for abnormal weather, unfavorable market pricing, unplanned outages and economic factors.

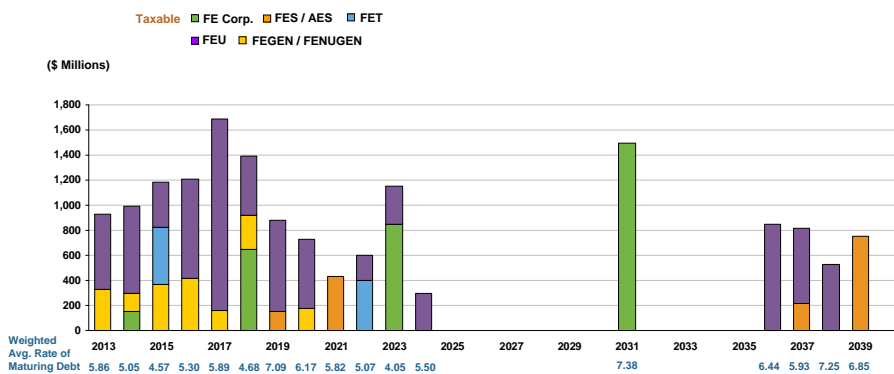
## Collateral Needs Minimized

(\$ millions)

Collateral Provisions As of March 31, 2013	FES (tied to FE Corp rating)	FES (tied to FES rating)	AE Supply	Utilities
<b>Split Rating</b> (One Rating Agency Below Investment Grade)	<b>\$237</b>	<b>\$164</b>	<b>\$6</b>	<b>\$38</b>
<b>BB+/Ba1 Credit Ratings</b>	<b>\$244</b>	<b>\$213</b>	<b>\$6</b>	<b>\$58</b>
<b>Full Impact of Credit Contractual Obligations</b>	<b>\$304</b>	<b>\$368</b>	<b>\$58</b>	<b>\$93</b>

## Consolidated Debt Maturities

As of April 30, 2013



\* Excludes variable rate tax-exempt debt and securitization bonds

## Debt Targets

Segment	FirstEnergy Utilities	FirstEnergy Transmission		FirstEnergy Generation
		HoldCo	OpCo	
<b>Year-End 2013 Target Debt Ratios</b>	<b>50-55%</b>	<b>65-70%</b>	<b>40-50%</b>	<b>40-45%</b>

**FirstEnergy Utilities** = OE, PP, CEI, TE, JCP&L, ME, PN, MP, PE, WP

**FirstEnergy Transmission** = FET, ATSI, TrAILCo

**FirstEnergy Generation** = FES, AE Supply

Outstanding debt at FE Corp is not reflected above.

Calculated per methodology on slide 89.

## FirstEnergy Credit Ratings

As of March 31, 2013	Corporate Credit Rating (S&P) / Issuer Rating (Moody's) / Issuer Default (Fitch)			Senior Secured			Senior Unsecured			Outlook		
	S&P	Moody's	Fitch	S&P	Moody's	Fitch	S&P	Moody's	Fitch	S&P	Moody's	Fitch
FirstEnergy Corp.	BBB-	Baa3	BBB-	-	-	-	BB+	Baa3	BBB-	stable	negative	stable
FirstEnergy Solutions	BBB-	Baa3	BBB-	-	-	-	BBB-	Baa3	BBB-	stable	stable	stable
Allegheny Energy Supply	BBB-	Baa3	BBB-	-	-	-	BBB-	Baa3	BBB-	stable	stable	stable
Allegheny Generating Co.	BBB-	Baa3	BBB	-	-	-	BBB-	Baa3	BBB	stable	stable	stable
American Transmission Systems Inc.	BBB-	Baa1	BBB	-	-	-	BBB-	Baa1	BBB+	stable	under review	stable
Cleveland Electric Illuminating	BBB-	Baa3	BB+	BBB	Baa1	BBB	BBB-	Baa3	BBB-	stable	stable	stable
Jersey Central Power & Light	BBB-	Baa2	BBB	-	-	-	BBB-	Baa2	BBB+	stable	negative	negative
Metropolitan Edison	BBB-	Baa2	BBB	BBB	A3	A-	BBB-	Baa2	BBB+	stable	stable	stable
Monongahela Power	BBB-	Baa3	BBB	BBB+	Baa1	A-	BBB-	Baa3	BBB+	stable	stable	stable
Ohio Edison Co.	BBB-	Baa2	BBB-	BBB	A3	BBB+	BBB-	Baa2	BBB	stable	stable	stable
Pennsylvania Electric Co.	BBB-	Baa2	BBB-	BBB	A3	BBB+	BBB-	Baa2	BBB	stable	stable	stable
Pennsylvania Power Co.	BBB-	Baa2	BBB-	BBB+	A3	BBB+	-	-	-	stable	stable	stable
Potomac Edison Co.	BBB-	Baa3	BBB	BBB+	Baa1	A-	BBB-	Baa3	BBB+	stable	stable	stable
Toledo Edison Co.	BBB-	Baa3	BB+	BBB	Baa1	BBB	-	-	-	stable	stable	stable
Trans-Allegheny Interstate Line Co.	BBB-	A3	BBB	-	-	-	BBB-	A3	BBB+	stable	under review	stable
West Penn Power Co.	BBB-	Baa2	BBB	BBB+	A3	A-	BBB-	Baa2	BBB+	stable	stable	stable

On March 25, 2013, Standard & Poor's confirmed ratings of FE Corp., FES, and JCP&L.

## Credit Providers

31 financial institutions provide ~\$7.3B aggregate credit commitment

(\$ In Millions)			
<b>Revolving Credit Facilities*</b>	<b>\$6,050</b>	Bank of America	JP Morgan Chase
<b>Term Loans</b>	<b>150</b>	Bank of New York Mellon	Keybank
		Bank of Nova Scotia	Mizuho
		Barclays Bank	Morgan Stanley
		BBVA	National Cooperative Services
		BNP Paribas	PNC
		CIBC	Royal Bank of Canada
		Citibank	Royal Bank of Scotland
		Cobank	Sovereign Bank
		Credit Agricole	Sumitomo Mitsui
		Credit Suisse	TD Bank
		Fifth Third Bank	UBS
		First Merit	Union Bank/Bank of Tokyo Mitsubishi
		G.E. Capital	US Bank
		Goldman Sachs	Wells Fargo
		Huntington Nation Bank	
<b>SUB-TOTAL</b>	<b>\$6,150</b>		
<b>Letters of Credit (LOC)</b>	<b>819</b>		
<b>Vehicle Leases</b>	<b>184</b>		
<b>Sale Leaseback LOC</b>	<b>133</b>		
<b>TOTAL</b>	<b>\$7,286</b>		

\* Includes \$500M accordion option exercised on May 8, 2013.

As of May 8, 2013

## 2013 Financial Plan

Transform Balance Sheet, Improve Liquidity, and Maintain Investment Grade Credit Metrics

- **Targeting ~\$1.5B debt reduction at competitive operations (FES/Allegheny Energy Supply)**
  - Significant improvement to credit metrics (FFO/Debt >20% and Debt/Cap <45%)
- **Complete WV generation asset transfer (Harrison/Pleasants)\***
  - 1,476 MW net transfer from AE Supply to Mon Power (~\$1.1B net transfer price)
  - Finance portion of Mon Power's asset purchase
- **Sell targeted non-strategic assets (unregulated hydro fleet – up to 1,240 MW)**
- **Debt reduction at Ohio Utilities (including securitization)**
- **Refinance maturing utility debt and reduce short-term borrowings**
- **Complete targeted sale/leaseback repurchases**
- **Extend maturity of existing \$5.5B credit facilities**
- **Issue up to \$300M equity, late in 2013**

\* Subject to regulatory approvals

## 2013 Financial Plan Accomplishments YTD

### Transform Balance Sheet, Improve Liquidity, and Maintain Investment Grade Credit Metrics

- ✓ **March 5: Issued \$1.5B FE Senior Notes**
  - \$650M 2.75% (5-year)
  - \$850M 4.25% (10-year)
- ✓ **March 2013: Repurchased \$664M FES/AE Supply taxable debt in tender offers**
- ✓ **March 2013: Completed acquisition of remaining lessor interests in 1987 Bruce Mansfield sale/leaseback transactions for \$221M; reduced lease debt at FES by \$106M**
- ✓ **March 15: Issued \$300M Met Ed 3.5% Notes due 2021**
  - Repaid \$150M 4.95% Senior Notes that matured in March 2013; repaid short-term debt
- ✓ **April 15: Redeemed \$400M FES 4.8% Senior Notes due 2015**
- ✓ **May 8: Extended maturity of credit facilities through May 2018 and exercised \$500M accordion option**
  - \$2.5B FE/FE Utilities (increased from \$2B)
  - \$2.5B FES/AE Supply
  - \$1B FET (ATSI/TrAIL)
- ✓ **May 2013: Commenced marketing activities associated with unregulated hydro asset sale**

## Non-GAAP Basic EPS Reconciliation

	FE Consolidated		Regulated Distribution	Regulated Transmission	Competitive Energy Services
	2012A	2013F	2013F	2013F	2013F
Basic EPS (GAAP Basis)	\$1.85	\$2.37 – \$2.67	\$2.00 – \$2.05	\$0.47 – \$0.52	\$0.16 – \$0.36
Excluding Special Items:					
Regulatory Charges	\$0.08	\$0.06	\$0.04	–	\$0.02
Trust Securities Impairment	\$0.02	\$0.01	–	–	\$0.01
Income Tax Legislative Changes	\$0.08	–	–	–	–
Merger Transaction/Integration Costs	\$0.04	–	–	–	–
Impact of Non-core Asset Sales/Impairments	\$0.03	\$0.08	\$0.04	–	\$0.04
Mark-to-Market Adjustments					
Pension/OPEB actuarial assumptions	\$0.91	–	–	–	–
Other	(\$0.11)	–	–	–	–
Merger Accounting – Commodity Contracts	\$0.13	\$0.08	–	–	\$0.08
Plant Closing Costs	\$0.29	\$0.01	–	–	\$0.01
Restructuring Costs	\$0.02	\$0.01	–	–	–
Debt Redemption Costs	–	\$0.23	–	–	\$0.23
<i>Basic EPS (Non-GAAP basis)</i>	<b>\$3.34</b>	<b>\$2.85 – \$3.15</b>	<b>\$2.08 – \$2.13</b>	<b>\$0.47 – \$0.52</b>	<b>\$0.55 – \$0.75</b>
<i>Average Shares Outstanding</i>	<b>418M</b>	<b>418M</b>	<b>418M</b>	<b>418M</b>	<b>418M</b>

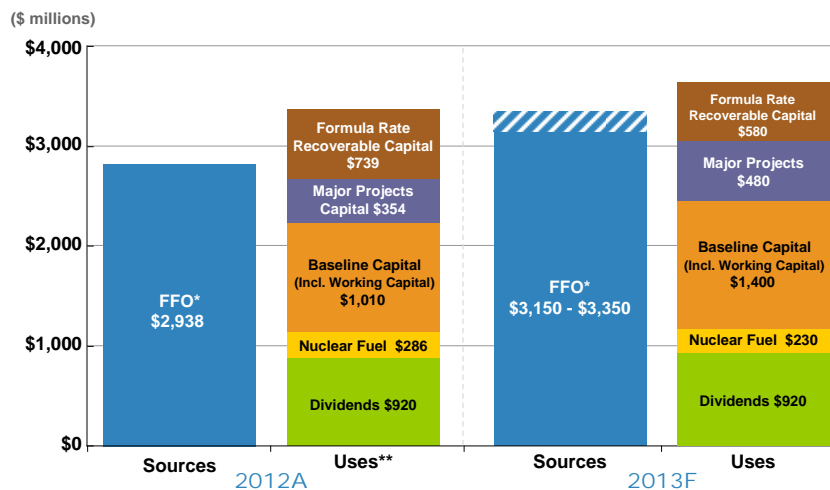
As of May 7, 2013

## Non-GAAP Cash Reconciliation 2012 & 2013

(\$ millions)	2012A	2013F
<b>Net Income (GAAP Basis)</b>	<b>\$771</b>	<b>\$995 - \$1,120</b>
Depreciation / Asset Removal Costs	1,327	1,230
Amortization	307	110
Deferral of Storm Costs	(375)	–
Nuclear Fuel Amortization	210	220
Deferred Taxes and ITC	647	655
Deferred Purchased Power	(238)	15
Retirement Benefits	(127)	(60)
Pension and OPEB MTM	609	–
Other	(193)	(15) – 60
<i>Funds from Operations (FFO) (Non-GAAP)</i>	<b>\$2,938</b>	<b>\$3,150 - \$3,350</b>

As of May 7, 2013

## Cash Flow 2012 & 2013



\* See GAAP to Non-GAAP reconciliation on appendix page 83

\*\* Excludes the effect of major storms and voluntary pension contribution and the capital numbers include mark-to-market pension/OPEB adjustment

As of May 7, 2013

## Segment Earnings

Basic Non-GAAP EPS*	2013F	% of EPS Contribution
Regulated Distribution	\$2.08 - \$2.13	65%
Regulated Transmission	\$0.47 - \$0.52	15%
<b>Sub-total</b>	<b>\$2.55 - \$2.65</b>	
Competitive Energy Services	\$0.55 - \$0.75	20%
Corporate / Other**	(\$0.25)	
<b>FirstEnergy Consolidated</b>	<b>\$2.85 - \$3.15</b>	

\*See GAAP to Non-GAAP reconciliation on appendix page 82

\*\*Includes primarily HoldCo interest expense and taxes

As of May 7, 2013

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## 2012 & 2013 Capital Expenditures

Capital Expenditures (\$ millions)	2012A	2013F
Utilities	\$ 725	\$ 625
Transmission	84	120
Generation <sup>(1)</sup>	418	480
Corp / Other	111	95
<b>Baseline Capital</b>	<b>\$ 1,338</b>	<b>\$ 1,320</b>
Utilities (DCR, Energy Efficiency)	518	290
Transmission	269	290
<b>Formula Rate Recoverable</b>	<b>\$ 787</b>	<b>\$ 580</b>
Generation Projects	304	310
MATS	32	125
JCP&L LITE	18	45
<b>Major Projects</b>	<b>\$ 354</b>	<b>\$ 480</b>
<b>Storms <sup>(2)</sup></b>	<b>\$ 790</b>	<b>-</b>
<b>Total <sup>(3)</sup></b>	<b>\$ 3,269</b>	<b>\$ 2,380</b>

<sup>(1)</sup> Excludes nuclear fuel of \$260 in 2012 and \$230 in 2013

<sup>(2)</sup> Excludes storm restoration costs of \$48M that are reflected in Formula Rate/Recovery

<sup>(3)</sup> 2012 year-end actual includes mark-to-market pension/OPEB adjustment

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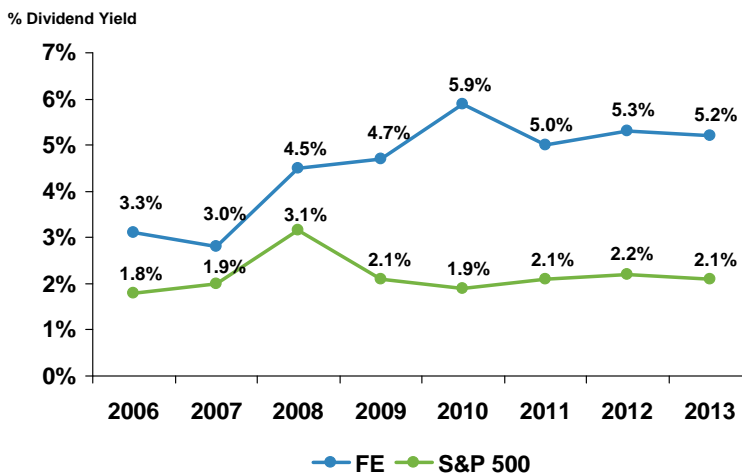


## Qualified Pension Status and Funding Overview

Pension Plan* (\$ millions)	As of Dec. 31, 2011	As of Dec. 31, 2012	2013F Assumptions
<b>Plan Assets</b>	<b>\$5,867</b>	<b>\$6,671</b>	
<b>Liabilities</b>			
▪ ABO	7,143	8,047	
▪ PBO	7,687	8,637	
<b>Funding (ABO)</b>			
▪ Deficiency	(1,276)	(1,377)	
▪ Ratio	82%	83%	
	<b>2011</b>	<b>2012</b>	<b>2013F</b>
<b>Contributions during the year</b>	<b>\$372M</b>	<b>\$600M</b>	<b>\$0M</b>
<b>Assumptions at beginning of year*</b>			
<b>Expected Return on Assets</b>	<b>8.25%</b>	<b>7.75%</b>	<b>7.75%</b>
<b>Discount Rate</b>	<b>5.50%</b>	<b>5.00%</b>	<b>4.25%</b>

\* Assumptions relate to net periodic pension costs as opposed to the pension benefit obligation. Year-end liabilities are valued based on the next year's discount rate.

## Dividend Yield



As of March 31, 2013  
Source: Bloomberg

Dividends declared from time to time on FirstEnergy's common stock during any annual period may vary due to circumstances considered by FirstEnergy's Board of Directors at the time of the actual declarations.

## Credit Metrics Calculations

FFO Calculation		FFO Interest Coverage	
Net Income Add back non-cash items: + Depreciation, amortization (incl. nuclear fuel, Pension/OPEB MTM adjustment and lease amortization), and deferral of regulatory assets + Deferred purchased power and other costs + Deferred income taxes and investment tax credits + Investment impairments + Deferred rents and lease market valuation liability + Retirement benefits - AFUDC = FFO		$= \frac{\text{FFO} + \text{Adjusted Interest}}{\text{Adjusted Interest}}$ Adjusted Interest: + Interest Expense (before AFUDC) + Interest portion of leases - Securitization bond interest expense = Adjusted Interest	
Debt / Capitalization Ratio		FFO-to-Debt Ratio	
Rating Agency View	Regulatory View	= $\frac{\text{FFO}}{\text{Adjusted Debt}}$	
Debt: + Short-term borrowings + Long-term debt + Operating lease debt equivalent + Post-retirement benefit obligations + Other debt - Securitization debt = Adjusted Debt	Debt: + Long-term debt - Securitization debt = Adjusted Debt	Adjusted debt: + Short-term borrowings + Long-term debt + Operating lease debt equivalent + Post-retirement benefit obligations + Other debt - Securitization debt = Adjusted Debt	
Capitalization: + Adjusted debt + Total equity = Adjusted Capitalization	Capitalization: + Adjusted debt + Common stockholders' equity = Adjusted Capitalization		

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