Company **Profile**



Forward-Looking Statement

All information contained in this FactBook is as of February 16, 2016 unless otherwise noted.

This FactBook 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," "forecast," "target," "will," "intend," "believe," "project," "estimate," "plan" 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, which may include the following: the speed and nature of increased competition in the electric utility industry, in general, and the retail sales market in particular; the ability to experience growth in the Regulated Distribution and Regulated Transmission segments and to successfully implement our sales strategy for the Competitive Energy Services segment; the accomplishment of our regulatory and operational goals in connection with our transmission investment plan, including but not limited to, the proposed transmission asset transfer to Mid-Atlantic Interstate Transmission, LLC, and the effectiveness of our strategy to reflect a more regulated business profile; changes in assumptions regarding economic conditions within our territories, assessment of the reliability of our transmission system, or the availability of capital or other resources supporting identified transmission investment opportunities; the impact of the regulatory process on the pending matters at the federal level and in the various states in which we do business including, but not limited to, matters related to rates and the Electric Security Plan IV in Ohio; the impact of the federal regulatory process on the Federal Energy Regulatory Commission (FERC)-regulated entities and transactions, in particular FERC regulation of wholesale energy and capacity markets, including PJM Interconnection, L.L.C. (PJM) markets and FERC-jurisdictional wholesale transactions; FERC regulation of cost-of-service rates, including FERC Opinion No. 531's revised Return on Equity methodology for FERC-jurisdictional wholesale generation and transmission utility service; and FERC's compliance and enforcement activity, including compliance and enforcement activity related to North American Electric Reliability Corporation's mandatory reliability standards; the uncertainties of various cost recovery and cost allocation issues resulting from American Transmission Systems, Incorporated's realignment into PJM; economic or weather conditions affecting future sales and margins such as a polar vortex or other significant weather events, and all associated regulatory events or actions; changing energy, capacity and commodity market prices including, but not limited to, coal, natural gas and oil prices, and their availability and impact on margins and asset valuations; the continued ability of our regulated utilities to recover their costs; costs being higher than anticipated and the success of our policies to control costs and to mitigate low energy, capacity and market prices; other legislative and regulatory changes, and revised environmental requirements, including, but not limited to, the effects of the United States Environmental Protection Agency's Clean Power Plan, coal combustion residuals regulations, Cross-State Air Pollution Rule and Mercury and Air Toxics Standards programs, including our estimated costs of compliance, Clean Water Act (CWA) waste water effluent limitations for power plants, and CWA 316(b) water intake regulation; the uncertainty of the timing and amounts of the capital expenditures that may arise in connection with any litigation, including New Source Review litigation, or potential regulatory initiatives or rulemakings (including that such initiatives or rulemakings could result in our decision to deactivate or idle certain generating units); the uncertainties associated with the deactivation of certain older regulated and competitive fossil units, including the impact on vendor commitments and as it relates to the reliability of the transmission grid, the timing thereof; the impact of other future changes to the operational status or availability of our generating units and any capacity performance charges associated with unit unavailability; 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 Nuclear Regulatory Commission or as a result of the incident at Japan's Fukushima Daiichi Nuclear Plant); issues arising from the indications of cracking in the shield building at Davis-Besse; the risks and uncertainties associated with litigation, arbitration, mediation and like proceedings, including, but not limited to, any such proceedings related to vendor commitments; the impact of labor disruptions by our unionized workforce; replacement power costs being higher than anticipated or not fully 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 continue to reduce costs and to successfully execute our financial plans designed to improve our credit metrics and strengthen our balance sheet through, among other actions, our cash flow improvement plan and other proposed capital raising initiatives; 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; changing market conditions that could affect the measurement of certain liabilities and the value of assets held in our Nuclear Decommissioning Trusts, pension trusts and other trust funds, and cause us and/or 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 financial plans, 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/or our subsidiaries' access to financing, increase the costs thereof, and increase requirements to post additional collateral to support outstanding commodity positions, letters of credit and other financial guarantees; changes in national and regional economic conditions affecting us, our subsidiaries and/or our major industrial and commercial customers, and other counterparties with which we do business, including fuel suppliers; the impact of any changes in tax laws or regulations or adverse tax audit results or rulings; issues concerning the stability of domestic and foreign financial institutions and counterparties with which we do business; the risks associated with cyber-attacks and other disruptions to our information technology system that may compromise our generation, transmission and/or distribution services and data security breaches of sensitive data, intellectual property and proprietary or personally identifiable information regarding our business, employees, shareholders, customers, suppliers, business partners and other individuals in our data centers and on our networks; and the risks and other factors discussed from time to time in our United States Securities and Exchange Commission filings, and other similar factors. Dividends declared from time to time on FirstEnergy Corp.'s common stock during any period may in the aggregate vary from prior periods due to circumstances considered by FirstEnergy Corp.'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 also 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.

Non-GAAP Financial Matters

All information contained in this FactBook is as of February 16, 2016 unless otherwise noted.

This FactBook contains references to non-GAAP financial measures including, among others, Operating earnings, Adjusted EBITDA, Adjusted Debt, Adjusted Capitalization, Funds from Operations (FFO, Free Cash Flow and CES Commodity Margin. In addition, Basic EPS and Basic EPS-Operating, each calculated on a segment basis, are also non-GAAP financial measures. Generally, a non-GAAP financial measure is a numerical measure of a company's historical or future financial performance, financial position, or cash flows that either excludes or includes amounts that are not normally excluded or included in the most directly comparable measure calculated and presented in accordance with accounting principles generally accepted in the United States (GAAP). Operating earnings are not calculated in accordance with GAAP because they exclude the impact of "special items". Adjusted EBITDA also excludes the impact of special items and represents Operating earnings before interest expense, investment income, taxes, depreciation and amortization. Basic EPS for each segment is calculated by dividing segment net income (loss) on a GAAP basis by the basic weighted average shares outstanding for the period. Basic EPS-Operating for each segment is calculated by dividing segment Operating earnings, which exclude special items as discussed above, by the basic weighted average shares outstanding for the period. Management uses non-GAAP financial measures such as Operating earnings, Adjusted EBITDA, FFO, Free Cash Flow and CES Commodity Margin to evaluate the company's performance and manage its operations and frequently references these non-GAAP financial measures in its decision-making, using them to facilitate historical and ongoing performance comparisons. Additionally, management uses Basic EPS and Basic EPS-Operating by segment to further evaluate FirstEnergy's performance by segment and references these non-GAAP financial measures in its decision-making. Management believes that the non-GAAP financial measures of "Operating earnings," "Adjusted EBITDA," "CES Commodity Margin," "Free Cash Flow" and "Basic EPS" and "Basic EPS-Operating" on a segment basis provide consistent and comparable measures of performance of its businesses to help shareholders understand performance trends. Management uses Adjusted Equity, Adjusted Debt and Adjusted Capitalization to calculate and monitor its compliance with the debt to total capitalization financial covenant under the FirstEnergy credit facility and term loan. These financial measures, as calculated in accordance with the FirstEnergy credit facility and term loan, help shareholders understand FirstEnergy's compliance with, and incremental debt capacity under, the debt to total capitalization financial covenant. The financial covenant requires FirstEnergy to maintain a consolidated debt to total capitalization ratio of no more than 65%, measured at the end of each fiscal quarter. All of these non-GAAP financial measures are intended to complement, and are not considered as alternatives to, the most directly comparable GAAP financial measures. Also, the non-GAAP financial measures may not be comparable to similarly titled measures used by other entities.

Pursuant to the requirements of Regulation G, FirstEnergy has provided quantitative reconciliations within the presentation of the non-GAAP financial measures to the most directly comparable GAAP financial measures.

Acronyms

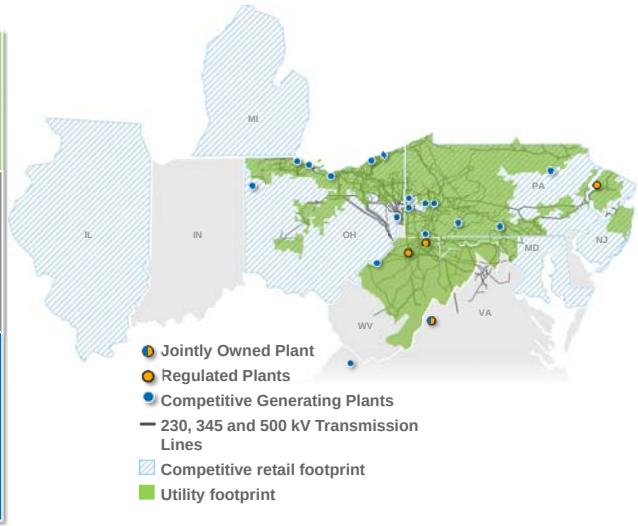
ABO	Accumulated Benefit Obligation
ACI	Activated Carbon Injection
AD	American Electric Power Dayton
AFUDC	Allowance for Funds Used During Construction
ALJ	Administrative Law Judge
BGS	Basic Generation Service
BPS	Basis Points
BPU	Board of Public Utilities
BRA	Base Residual Auction
CEMS	Continuous Emissions Monitoring System
CES	Competitive Energy Services
CFIP	Cash Flow Improvement Project
CIS	Customer Information System
COS	Combustion Optimization System
CTRs	Capacity Transmission Rights
DOE	Department of Energy
DR	Demand Response
DSM	Demand Side Management
DSP	Default Service Plan
EDC	Electric Distribution Company
EE	Energy Efficiency
EHV	Extra High Voltage
EMAAC	EMAAC Locational Deliverability Area in PJM
ENEC	Expanded Net Energy Costs
EPA	United States Environmental Protection Agency
ESP	Electric Security Plan
FERC	Federal Energy Regulatory Commission
FRR	Fixed Resource Requirement
GA	Governmental Aggregation
GWH	Gigawatt-hour
HV	High Voltage
IGCC	Integrated Gasification Combined Cycle
ILB	Illinois Basin
ITC	Investment Tax Credit
kV	Kilovolt
kWh	Kilowatt-hour
LCI	Large Commercial / Industrial Customers
LNB	Low NOx Burners
Lo-S	Low Sulfur Coal
MAAC	MAAC Locational Deliverability Area in PJM
MAIT	Mid-Atlantic Interstate Transmission, LLC
MATS	Mercury and Air Toxics Standards
MCI	Medium Commercial / Industrial Customers
MISO	Midcontinent Independent System Operator
MM	Mass Market
MMBTU	M British Thermal Unit
MW	Megawatt
MWH	Megawatt-hour
NAPP	Northern Appalachian Coal
NDC	Net Demonstrated Capacity
NDT	Nuclear Decommissioning Trust
NOX	Nitrogen Oxide
NRC	Nuclear Regulatory Commission
OCI	Other Comprehensive Income
OFA	Separated Overfire Air
OPEB	Other Post-Employment Benefits
OVEC	Ohio Valley Electric Corporation
PAPUC	Pennsylvania Public Utility Commission
PBO	Projected Benefit Obligation
PIPP	Percentage of Income Payment Plan
PJM	PJM Interconnection, L.L.C.
POLR	Provider of Last Resort
PPA	Purchase Power Agreement
Precip	Electrostatic Precipitator
PSC	Maryland Public Service Commission
PTC	Price-to-compare
PUCO	Public Utilities Commission of Ohio
PV	Photovoltaic
RD	Recommended Decision
RMR	Reliability Must Run
ROE	Return on Equity
RPM	Reliability Pricing Model
RPS	Renewables Portfolio Standard
RTEP	Regional Transmission Expansion Plan
RTO	Regional Transmission Organization
SCR	Selective Catalytic Reduction
SIP	Stock Investment Plan
SMIP	Smart Meter Technology Procurement and Installation Plan
SNCR	Selective Non-Catalytic Reduction
SO_2	Sulfur Dioxide
SSO	Standard Service Offer
SVC	Static VAR Compensator
VAR	Volt-Ampere Reactive
VVC	Voltage/VAR Control
WFGD	Wet Flue Gas Desulfurization
WV PSC	West Virginia Public Service Commission

Strength in Our Diversity and Scale

Utilities
- Approximately 6M customers
- One of the largest contiguous service territories in the U.S. covering 65,000 square miles

Transmission
- One of the largest transmission systems in PJM
- 24,200+ transmission miles
- Significant opportunity for growth

Competitive Operations
- One of the cleanest generation fleets in the U.S.
- Long generation vs. sales strategy
- Focused on reducing overall business risk



2015 Accomplishments

Transmission
- ✓ Executed 2nd year of *Energizing the Future* program
- ✓ Formed MAIT – Seeking approval to transfer transmission assets of JCP&L, Met-Ed, Penelec*
- ✓ FERC approved the comprehensive settlement for ATSI forward-looking formula rate and ROE on October 29

Utilities
- Ohio ESP IV December 2015 Stipulation filed with PUCO*
- ✓ Finalized rate cases:
  - WV: Rates effective February 2015
  - PA: Rates effective May 2015
  - NJ: Rates effective April 2015
- ✓ Filed Long-Term Infrastructure Improvement Plans (LTIIP) in Pennsylvania

Competitive Energy Services
- ✓ June 2016-May 2019 capacity revenues improved by $1.1B
- ✓ Restructured sales portfolio
- ✓ Focused on reduced risk
- ✓ Retained 10-20M MWH of generation for spot wholesale sales
- ✓ 2015 Adjusted EBITDA in line with original guidance (3Q 2014)

Financial
- ✓ Implemented Cash Flow Improvement Plan
- ✓ Focused on maintaining investment-grade credit metrics at each business unit
- ✓ Focused on improving FE Corp. metrics

Creating value for shareholders through customer-focused regulated growth and risk mitigation

*Subject to regulatory approval

FirstEnergy **Leadership**



Charles E. Jones
President and Chief Executive Officer



James F. Pearson
Executive Vice President and Chief Financial Officer



Leila L. Vespoli
Executive Vice President, Markets and Chief Legal Officer



James H. Lash
Executive Vice President and President FirstEnergy Generation



Lynn M. Cavalier
Chief Human Resources Officer



Donald R. Schneider
President FirstEnergy Solutions



Gary D. Benz
Senior Vice President, Strategy



Dennis M. Chack
Senior Vice President, Marketing & Branding



Michael J. Dowling
Senior Vice President, External Affairs



Bennett L. Gaines
Senior Vice President, Corporate Services and Chief Information Officer



Charles D. Lasky
Senior Vice President, Human Resources



Steve Strah
Senior Vice President and President of FirstEnergy Utilities



John W. Judge
Vice President, Corporate Risk and Chief Risk Officer



Irene M. Prezelj
Vice President, Investor Relations

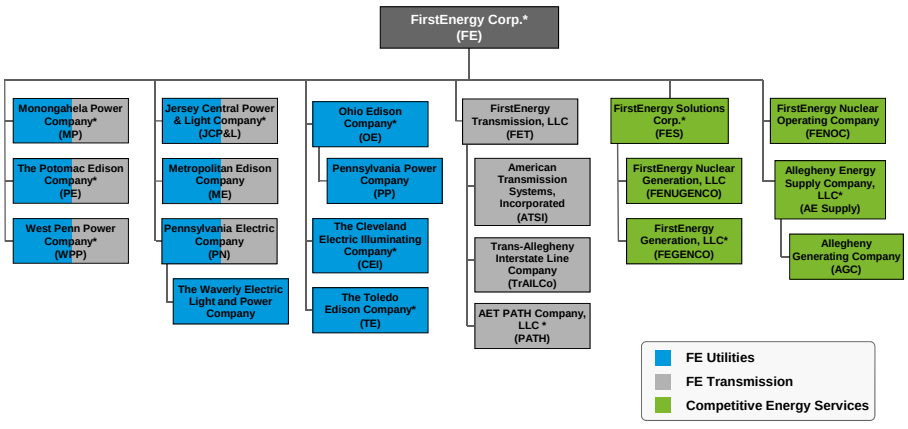


Steven R. Staub
Vice President and Treasurer



K. Jon Taylor
Vice President, Controller and Chief Accounting Officer

Summary Organizational Structure

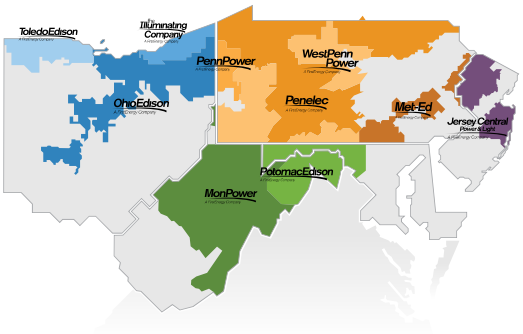


*Entity has subsidiaries that are not shown

FirstEnergy Corp. Segment Descriptions

Regulated Distribution	Comprised of ten distribution companies serving ~6M customers in Ohio, Pennsylvania, New Jersey, West Virginia, Maryland and New York, making this one of the largest contiguous service territories in the U.S. Our regulated generation portfolio consists of 3,790 MW and serves primarily West Virginia. Net plant in-service as of 12/31/2015 was approximately $17.5B.
Regulated Transmission	The FirstEnergy transmission system spans a 65,000 square mile service territory and is one of the largest transmission systems in PJM with over 24,200 transmission miles. The lines are owned by certain distribution companies or FE's transmission companies, ATSI and TrAILCo. ATSI consists of the transmission systems formerly owned by OE, PP, CEI, and TE along with additions constructed by ATSI. TrAILCo consists of TrAIL, a 500-kV transmission line, and other transmission facilities constructed in the service areas of WPP, MP, PE, ME and PN. Net plant in-service as of 12/31/2015 was approximately $6.1B.
Competitive Energy Services (CES)	FES and AE Supply primarily comprise the Competitive Energy Services segment, which serves customers in the POLR, Governmental Aggregation, and selected large commercial-industrial direct sales channels. FirstEnergy's competitive generating portfolio consists of more than 13,000 MW of diversified capacity. The segment is long generation versus sales.
Corporate / Other	Corporate/Other contains corporate support and other businesses that do not constitute an operating segment, interest expense on stand-alone holding company debt and corporate income taxes. Additionally, reconciling adjustments for the elimination of inter-segment transactions are included in Corporate/Other.

Regulated **Distribution**



State	2015 Customers (in thousands)	2015 Distribution Sales (MWH in thousands)
Ohio	2,092	53,249
Pennsylvania	2,032	52,014
New Jersey	1,109	21,061
West Virginia	529	15,025
Maryland	262	7,062
New York	4	-
Total	**6,028**	**148,411**

As of December 31, 2015

Rate Base and Allowed ROEs

State	Company	Rates Effective	Rate Base ($M)	Allowed Debt /Equity	Allowed ROE
Ohio	OE	January 2009	$ 1,251	Debt 51.0% / Equity 49.0%	10.50%
	CEI	May 2009	$ 984	Debt 51.0% / Equity 49.0%	10.50%
	TE	January 2009	$ 414	Debt 51.0% / Equity 49.0%	10.50%
Pennsylvania*	PP	May 2015	~$ 360	Debt 49.9% / Equity 50.1%	
	ME	May 2015	~$ 1,410	Debt 50.0% / Equity 50.0%	
	PN	May 2015	~$ 1,540	Debt 50.1% / Equity 49.9%	
	WPP	May 2015	~$ 1,290	Debt 49.9% / Equity 50.1%	
New Jersey	JCP&L	April 2015	$ 2,089	Debt 50.0% / Equity 50.0%	9.75%
West Virginia*	PE – WV	February 2015	~$ 2,500	Debt 53.5% / Equity 46.5%	
	MP	February 2015	~$ 2,500	Debt 53.5% / Equity 46.5%	
Maryland	PE – MD	February 1993	$ 581	Debt 56.0% / Equity 44.0%	11.90%

As of the most recent rate case approved by respective state commissions. Rate base can include distribution, transmission and generation assets. Actual required revenues are adjusted to reflect current rate structure. OH, PA, and NJ are distribution only rate base.

*Reflects filed rate base and debt/equity; final settlements/Orders do not specifically include rate base or capital structure

Summary of Rate Proceeding Requirements

	Ohio	Pennsylvania	New Jersey	West Virginia	Maryland
General					
Time Limitations Between Cases	No	No	No	No	No
Fuel Clause Renewal Frequency	N/A	N/A	N/A	Annually	N/A
Notice of Intent					
Prior Notice Required	Yes	Yes	No	Yes	Yes
Notice Period (Days)	30	30	N/A	30	30
Case Components					
Base Case Test Year	Hybrid (Historic/ Forecast)	12-Month Historic 12-Month Forecast 12-Month Fully Projected Future Test Year	Hybrid (Historic/ Forecast)	Historic	Hybrid (Historic/ Forecast)
Other					
Requested (but not approved) Rates Effective Subject to Refund	Yes*	Yes	Yes	No	Yes
Approximate number of months after filing to implement rates subject to refund	9 months	9 months	1-9 months	N/A	1-8 months
Default Service					
Term	ESP 3 through May 2016	Current DSP through May 2017	Evergreen	N/A	Standard Offer Service (SOS)–Periodic Filing

* This provision is subject to other requirements including the filing of a bond or letter of credit

Summary of Recovery Mechanisms

Company	Purchased Power[1]/ Fuel Rider	Storm Cost Recovery[2]	Incremental Capital Recovery	Energy Efficiency	Smart Meter / Smart Grid[7]	Alternative Energy[4,8,9]
OE	Annually	Base Rates	Quarterly	Semi Annually	Quarterly[3]	Quarterly
CEI	Annually	Base Rates	Quarterly	Semi Annually	Quarterly[3]	Quarterly
TE	Annually	Base Rates	Quarterly	Semi Annually	Quarterly[3]	Quarterly
PP	Quarterly	Base Rates	No[11]	Annually	Annually[10]	Annually
ME	Quarterly	Base Rates	No[11]	Annually	Annually[10]	Annually
PN	Quarterly	Base Rates	No[11]	Annually	Annually[10]	Annually
WPP	Quarterly	Base Rates	No[11]	Annually	Annually[10]	No-Supplier Obligation[5]
JCP&L	Annually	Base Rates/SRC Rider	No	Annually	No	Annually
PE – WV	Annually	Base Rates	No	Annually	No	N/A
MP	Annually	Base Rates	No	Annually	No	N/A
PE – MD	Various[6]	Base Rates	No	Annually	No	No-Supplier Obligation

Notes:

1. Purchased Power is associated with competitive solicitations in all states except West Virginia. Ohio changes annually, reconciled quarterly
2. Storm Costs that exceed baseline amounts are authorized to be deferred in New Jersey and Ohio. All non-extraordinary storm costs in Pennsylvania are authorized to offset a storm reserve account; companies may seek deferral of expenses related to extraordinary storms. Storm-related vegetation management costs are recovered through a surcharge mechanism in WV.
3. Smart Meter in Ohio is currently a pilot program with a limited number of meters and equipment; 50% of funding from DOE
4. Pennsylvania only recovers Solar Renewable Energy Credits. The non-solar obligation remains with the supplier. In Ohio, both solar and non-solar renewable energy credits are recovered.
5. Less existing long-term Tier I Alternative Energy Credits that are recoverable through the Price To Compare
6. Residential is updated twice a year. Commercial and Small Industrial change quarterly. Large industrial customers have Hourly Pricing Service.
7. Costs in New Jersey and Ohio for the Smart Grid Initiative are recovered through riders; 50% of funding from DOE
8. New Jersey RPS requirements are the responsibility of the BGS suppliers
9. West Virginia repealed its Alternative and Renewables Portfolio Act in February 2015
10. PA Smart Meters rolled into base rates; once revenue requirement exceeds base rate charges can be deferred
11. LTIIPs were approve on February 11, 2016; the PA Companies filed DSIC riders for approval on February 16, 2016, of costs associated with the LTIIPs

Net Regulatory Asset Amortization (Deferral)

($ M)

Jurisdiction	2015A
Ohio	$77
Pennsylvania	$86
New Jersey	$106
West Virginia / Maryland	($8)
FERC	$7
Total	**$268**

As of December 31, 2015

Renewable Energy Requirements

	OH	PA	NJ	MD
Year	2026**	2021	2021	2022
Requirements	12.5%	18.5%	23.85%	20%
Class/Tier I – Non Solar	12.0%	8.0%	17.88%	18%
Solar	0.5%	0.5%	3.47%	2%
Class/Tier II	–	10.0%	2.5%	2.5% until 2018
Default Service RPS Obligations Fulfilled By	▪ 100% Company	▪ Company 100% solar for ME, PN & PP / Suppliers Tier I, Tier II & WPP solar	▪ Suppliers	▪ Suppliers 100% residential & commercial / Company 100% industrial
Procurement Method / Market Incentive (NJ)	▪ RFP & limited spot	▪ RFP and limited spot	▪ Financing Program / Auction sales to Suppliers	▪ Spot
Solar	▪ Solar PV and Solar Thermal	▪ Solar PV and Solar Thermal	▪ Solar PV and Solar Thermal	▪ Solar PV, Solar Thermal & Solar Water Heating
Class/Tier I/ Renewable Energy Resources	▪ Solar ▪ Wind ▪ Hydro ▪ Geothermal ▪ Solid waste* ▪ Biomass ▪ Fuel cells ▪ Storage* ▪ Distributed generation* ▪ Certain advanced energy resources*	▪ Solar Photovoltaic ▪ Solar Thermal ▪ Wind ▪ Low-impact hydro ▪ Geothermal ▪ Biomass ▪ Methane gas* ▪ Coal-mine methane ▪ Fuel cells ▪ Wood byproducts* ▪ Large-scale hydro*	▪ Solar ▪ Wind ▪ Fuel Cells powered by Renewable fuels ▪ Wave / Tidal ▪ Geothermal technologies ▪ Methane Landfill gas ▪ Anaerobic Digestion ▪ Biomass (sustainable) ▪ In State hydro ≤3 with in service date >7/23/12	▪ Solar ▪ Wind including Off-Shore* ▪ Biomass ▪ Landfill Gas ▪ Small Hydro ▪ Geothermal Electric ▪ Fuel Cells* ▪ Municipal Solid Waste ▪ Ocean ▪ Poultry litter incineration* ▪ Refuse derived
Class/Tier II Advanced/Alternative Energy Resources	▪ N/A	▪ Waste coal ▪ Distributed generation ▪ DSM ▪ Large hydro ▪ Muni solid waste ▪ Wood byproducts* ▪ IGCC coal ▪ Pumped-storage hydro	▪ Small hydro <30 ▪ Resource recovery	▪ Hydro (excluding pumped storage)
Renewable Energy Credit (REC) Life	5 years	3 years	Solar 5 Years, Class I 3 years & Class II 1 year	3 years
Other Provisions	Panel issued recommendation on future RPS levels	Quarterly Adjustments to Tier I Non-Solar %	Solar must be in-state	Solar must be in-state

*Additional restrictions and provisions apply
**Changes under SB310 extended RPS requirements from 2024 to 2026 due to freezing requirements subject to legislative amendment.

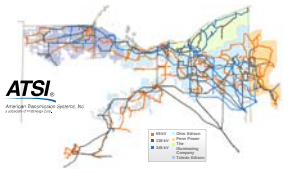
Leveraging Industrial and Technological Developments in our Region

- **FE utility service territory overlays Marcellus and Utica shale region**
- **Shale load growth has slowed**
  - ~500 MW (Operational 2013 – 2015)
  - ~600 MW (2016 – 2020)
- **Shale development also creating other opportunities**
  - Tens of thousands of miles worth of pipeline infrastructure projects are proposed for Ohio, Pennsylvania and West Virginia during the next ten years. Multiple FERC projects are under review or have recently been approved.
  - Work continues with Midstream companies of substantial size, lack of pipeline infrastructure is slowing production
  - Cracker plants that convert ethane and natural gas are being considered
  - Related supply chains are being established and downstream opportunities are being identified
  - Other significant projects are in the planning stages
  - Drilling rig count has continued to decline resulting in decreased production in the primary metals segment

Growing Our Transmission Business
Energizing the Future

- **Regulatory Required: PJM mandated RTEP projects including those that support generation deactivations and shale gas expansion activities**
- **Reliability Enhancement: Projects focused on enhancing customer service, strengthening grid and cyber-security, and adding resiliency and operating flexibility**

Stand Alone Businesses

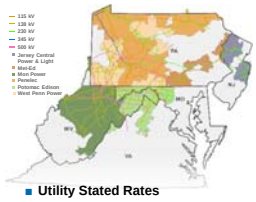


- **Established in 1998**
- **Forward-looking Formula Rate 10.38% ROE**
- **~7,800 transmission miles**
- **2015 revenues ~$446M**
- **PP&E** – $2.5B**



- **Established in 2006; In Service May 2011**
- **Forward-looking Formula Rate 11.7% ROE**
- **~200 transmission miles**
- **2015 revenues ~$252M**
- **PP&E** – $1.7B**

Utilities

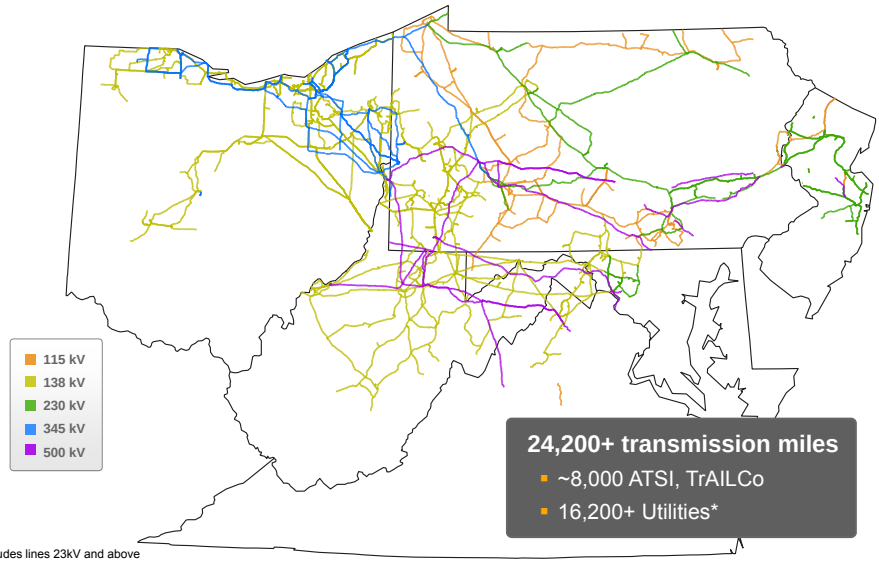


- **Utility Stated Rates**
- **16,200+ transmission miles***
- **2015 revenues ~$300M**
- **PP&E** – $1.9B**

$4.2B Investment – 2014-2017

* Includes lines 23kV and above
** Property, Plant & Equipment (PP&E) in-service net of accumulated depreciation as of December 31, 2015

FirstEnergy Transmission – Overview



24,200+ transmission miles
- ~8,000 ATSI, TrAILCo
- 16,200+ Utilities*

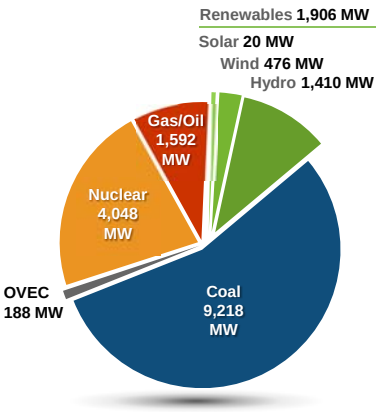
*Includes lines 23kV and above
Note: Map does not represent 69kV lines and below

FirstEnergy Generation Portfolio

Nuclear	MW
Beaver Valley 1 & 2	1,872
Perry	1,268
Davis-Besse	908
Total	**4,048**

Supercritical Coal	
Mansfield 1-3	2,490
Harrison 1-3 (R)	1,984
Pleasants 1 & 2	1,300
Sammis 6 & 7	1,200
Fort Martin 1 & 2 (R)	1,098
Total Supercritical Coal	**8,072**

Subcritical Coal	
Sammis 1-5	1,010
Bay Shore 1	136
Subcritical Coal	**1,146**
OVEC (PR)	188
Regulated: 11 Competitive:	177
Total Subcritical Coal	**1,334**



Total Capacity	16,952 MW	
Competitive	13,162 MW	(78%)
Regulated	3,790 MW	(22%)

(R) Fully Regulated or (PR) Partially Regulated units
Long-term PPA

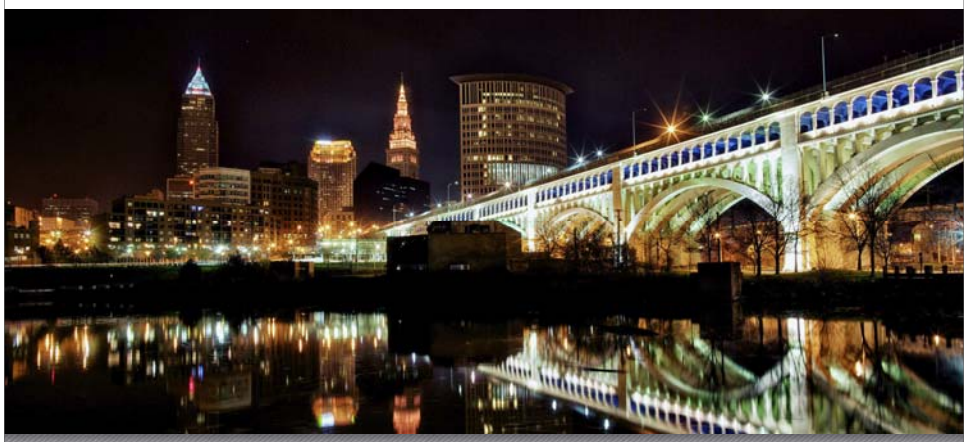
Gas/Oil	MW
Springdale 1-5	638
West Lorain 1-6	545
Chambersburg 12 & 13	88
Gans 8 & 9	88
Forked River	86
Hunlock	45
Buchanan	43
Other	59
Total Gas/Oil	**1,592**

Hydro	
Bath County (PR)	1,200
Regulated: 487 Competitive:	713
Yards Creek (R)	210
Total Hydro	**1,410**

Wind	
Blue Creek	100
High Trail	99
Allegheny Ridge	80
N. Allegheny Ridge	70
Highland	62
Casselman	35
Meyersdale	30
Total Wind	**476**

Solar	
Maryland Solar	20
Total Solar	**20**

Ohio Operations



Ohio – Customer Data

2015 Total Customers (thousands)	
Ohio Edison	1,038
The Illuminating Company (CEI)	746
Toledo Edison	308
Total	2,092

Typical Bill Comparison*	
Ohio	$/Month
Ohio Edison	$138.23
The Illuminating Company (CEI)	$137.49
Toledo Edison	$141.57
Statewide Avg. Bill	$136.60

* Typical bills are displayed on 1,000 kWh of residential usage. Billing amounts sourced from the EEI Typical Bills and Average Rates Report as of July 1, 2015. Ohio rates represent POLR bundled residential rates.



Major Metropolitan Areas	Population (thousands)
Cuyahoga County (Cleveland)	1,278
Summit County (Akron)	542
Lucas County (Toledo)	442
Mahoning/Trumbull Counties (Youngstown)	449
Total State of Ohio	11,540

Source: U.S. Census Bureau (2010)

Principal Industries Served**
Primary Fabricated Metals
Automotive
Chemical
Plastic and Rubber
Petroleum

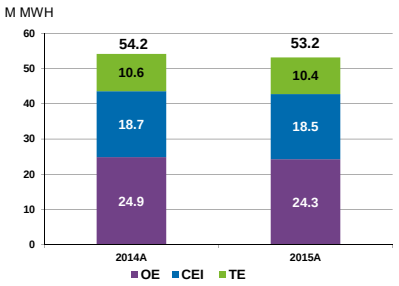
** Based on kWh sales

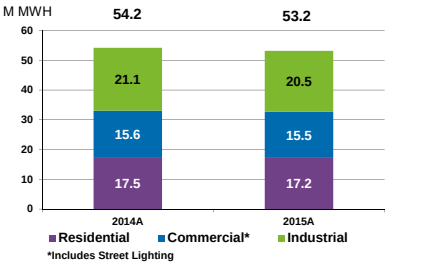
As of December 31, 2015

Ohio – **Distribution Sales**

State Unemployment Rates					
	2011	2012	2013	2014	2015
OH	8.8%	7.4%	7.3%	5.6%	4.9%

Source: Moody's Analytics





Gross Domestic Product Annualized Growth (Seasonally Adjusted Annualized Rate)					
	2011	2012	2013	2014	2015
OH	2.9%	1.6%	2.1%	2.1%	1.5%

Source: Moody's Analytics

Gross Domestic Product, in 2009 dollars ($ billions)					
	2011	2012	2013	2014	2015
OH	$502	$510	$521	$532	$540

Source: Moody's Analytics

As of December 31, 2015

Ohio – **Political Landscape**

Governor

Governor	Current Term
John Kasich (R)	Expires in 2019

Public Utilities Commission of Ohio (PUCO)

Commissioners	Current Term
Andre T. Porter, Chairman (R)	Expires in 2020
Asim Z. Haque, Vice Chairman (I)	Expires in 2016
Lynn Slaby (R)	Expires in 2017
M. Beth Trombold (I)	Expires in 2018
Thomas W. Johnson (R)	Expires in 2019

Ohio – **Regulatory Update**

Ohio ESP 3

- **Approved by the PUCO on July 18, 2012**
- **Plan covers June 1, 2014 thru May 31, 2016**
- **Stabilizes pricing by modifying the previous 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 for period covered by ESP 3
- **Continues collection of lost distribution revenues associated with energy efficiency and peak demand reduction programs**
- **Extends recovery period for REC costs (with carrying charges) reducing current monthly charges for non-shopping customers by more than 50%**
- **Provides PIPP customers with 6% discount off their price-to-compare with wholesale generation supply provided by FE Solutions**

Ohio – **Regulatory Update**

Ohio ESP 3 – Delivery Capital Recovery Rider

Recovery Period	Revenue Cap ($M)
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**

Ohio – **Regulatory Update**

Ohio ESP IV – Powering Ohio's Progress*

Continues to build upon the success of current and prior ESPs

- **Application filed August 4, 2014**
- **Stipulations filed on December 22, 2014, May 28, 2015, June 4, 2015, and December 1, 2015**
  - PUCO Staff and sixteen other parties were signatories
- **Provisions of the Stipulations include:**
  - Term: June 1, 2016 – May 31, 2024, including Economic Stability Program, Rider RRS
  - Rider RRS - Risk sharing mechanism to provide up to $100M in customer credits in years five through eight if the rider does not naturally produce credits above certain levels
  - Contemplates a freeze on the Ohio Companies' base distribution rates through May 31, 2024
  - Continuation of Rider DCR with annual revenue cap increases:
    - $30M annually for the period June 1, 2016 - May 31, 2019
    - $20M annually for the period June 1, 2019 - May 31, 2022
    - $15M annually for the period June 1, 2022 - May 31, 2024

* Subject to regulatory approval

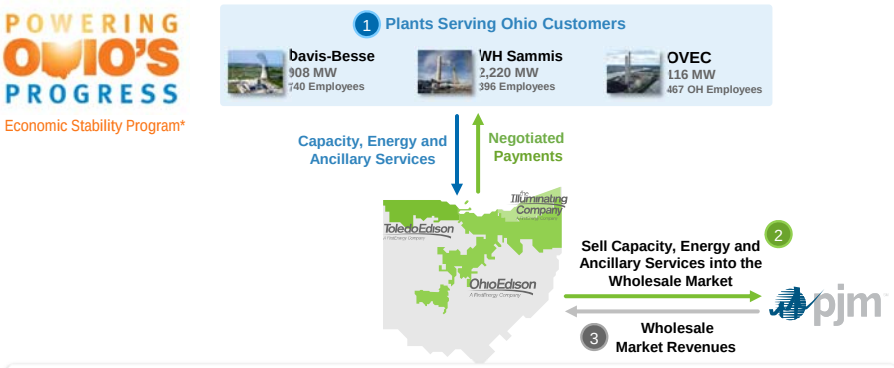
Ohio – **Regulatory Update**

Ohio ESP IV – Continued

- **Provisions of the Stipulations include**:
  - The Ohio Companies will file a grid modernization business plan, including a timeline for achieving full smart grid/smart meter implementation as well as a decoupling mechanism
  - Implement programs to promote resource diversification (including reducing carbon dioxide emissions, reactivating all suspended energy efficiency programs, evaluating investments in battery technology, and additional renewable commitments)
  - Commitment to file a case with the PUCO by April 3, 2017, to transition to decoupled residential rates
  - Support for economic development, job retention, and low-income customers
  - The PUCO may terminate the specific charge/credit of Rider RRS for any generation unit included in the Stipulated ESP IV upon the unit's sale or transfer
  - FirstEnergy will maintain its corporate headquarters in Akron, Ohio, for the duration of Rider RRS
- **Briefing Schedule**
  - Initial Briefs filed – 2/16/2016
  - Reply Briefs due – 2/26/2016
- **On January 27, 2016, certain parties filed a complaint at FERC against FES and the Ohio Operating Companies that requests FERC review of the proposed PPA under section 205 of the Federal Power Act**

Ohio – **Regulatory Update**

POWERING OHIO'S PROGRESS
Economic Stability Program*



1
- FE's Ohio utilities enter into an 8-year purchased power contract with FES
- Purchase power from Davis-Besse, Sammis and a portion of OVEC
- Utilities pay FES a negotiated rate for power

2
- Utilities sell power into wholesale market

3
- When wholesale market revenues exceed the negotiated rate, customers receive credit
- When wholesale market revenues are less than cost, customers pay charge
- Cost-based arrangement protects all customers from retail price volatility

- Customers projected to save $560M over 8 years

Note:
- Non-shopping customers continue to receive generation from competitive auction process
- All customers retain option to shop for a competitive retail electric supplier

* Subject to regulatory approval

Ohio – Regulatory Update

- **On September 30, 2015, the Energy Mandates Study Committee issued its final report, recommending to continue the freeze of the current energy efficiency and renewable mandates indefinitely**
- **Amended Energy Efficiency Filing**
  - Ohio Senate Bill 310 provides the opportunity to lower customers' costs while continuing to meet the state's energy efficiency requirements for 2015 and 2016
  - On November 20, 2014, the Ohio Companies received approval of their Amended Energy Efficiency Plan to reduce customers' costs while aligning with the state's recent action to freeze energy efficiency mandates for 2015-2016
  - Certain large industrial customers have the ability to opt out of utility-sponsored programs and implement their own energy efficiency initiatives
- **Alternative Energy Rider Case**
  - PUCO issued an Opinion and Order on August 7, 2013, disallowing $43.4M plus carrying costs in Renewable Energy Credit purchases
  - The Ohio Companies and Intervenors filed Applications for Rehearing on September 6, 2013
  - The PUCO granted the Applications for Rehearing for further consideration on September 18, 2013
  - A Second Entry on Rehearing from the PUCO was issued on December 18, 2013, denying the Application for Rehearing filed by the Ohio Companies and Intervenors
  - The Ohio Companies filed an appeal and motion to stay with the Supreme Court of Ohio on December 24, 2013. The stay was granted on February 10, 2014, and went into effect February 14, 2014

Ohio – **Energy Efficiency**

Mandates and Progress

	Ohio
State Goals	Senate Bill 310*
Energy Efficiency	4.20% in 2016 (2,293 GWh)* 5.20% in 2017 (2,875 GWh)*
Demand Response	4.75% in 2016 (531 MW)* 5.50% in 2017 (608 MW)*
Smart Meter	No state smart meter requirement

*The GWh and MW goal estimates shown above do not incorporate potential reductions from qualifying C&I customers that may elect to opt-out of the Companies' Energy Efficiency programs and target baseline.

Status	
Smart Grid	PUCO ordered continued operation for Residential Critical Peak Pricing Rider through May 2019 and authorized recovery of prudently incurred costs.
Cost Recovery for Energy Efficiency	In place; semi-annual energy efficiency rider
Compliance	2015 EE & DR targets met based on preliminary data. On track to achieve 2016 EE & DR targets.

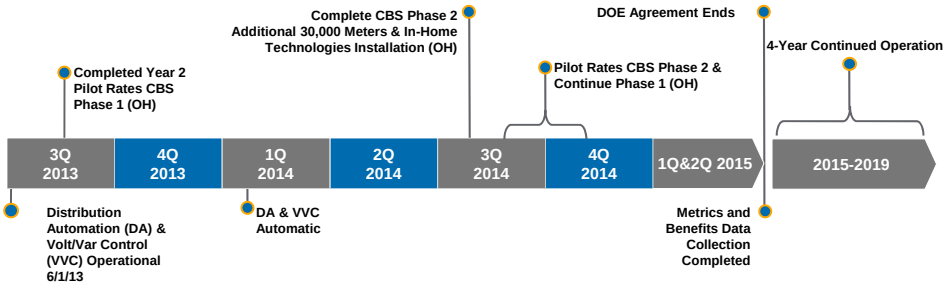
Smart Grid	
Cross-cutting** Technologies/Programs	CEI ($67M)
Distribution Automation	$27
Volt / VAR Control	$10
Consumer Behavior Study	$30

- 60-month DOE period of performance ended June 1, 2015
- PUCO Order (May 2015) for operation of programs until June 1, 2019
- All prudent costs incurred between June 1, 2015, and June 1, 2019, recoverable via state rider
- ESP settlement agreement with PUCO staff (Dec 2015) included provision to file business plan for future smart meter and smart grid technology initiatives for Ohio operating companies

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

Ohio – **Smart Grid Modernization Initiative Update**

- **DOE Project Status: 100% Complete**
- **$67M spent through June 1, 2015, expiration of DOE agreement**
- **PUCO Order (May 2015) to continue programs through June 1, 2019**
- **ESP settlement agreement with PUCO staff (Dec 2015) includes provision to file business plan for future smart meter and smart grid technology initiatives for Ohio operating companies**



Ohio – **Procurement Schedule**

Ohio Edison, The Illuminating Company (CEI) and Toledo Edison

ESP 3		Delivery Period		
Auction	Tranches Bid*	June 2013 – May 2014	June 2014 – May 2015	June 2015 – May 2016
Oct-12	17	36 Months $60.90 / MWH		
Jan-13	17	36 Months $59.17 / MWH		
Oct-13	16		12 Months $50.91 / MWH	
	17		24 Months $59.99 / MWH	
Jan-14	16		12 Months $55.83 / MWH	
	17		24 Months $68.31 / MWH	
Oct-14	16			12 Months $73.82 / MWH
Jan-15	16			12 Months $69.18 / MWH

*Each tranche represents 1% of the actual hourly energy and daily capacity required to serve SSO load; tranches are full-requirements products

Ohio – **Long-Term Debt Schedules**

Company	Type	CUSIP	Interest Rate	Maturity	Amount Outstanding
Ohio Edison	First Mortgage Bond	677347CG9	8.250%	10/15/2018	$25,000,000
	Senior Note	677347CE4	6.875%	7/15/2036	$350,000,000
	First Mortgage Bond	677347CF1	8.250%	10/15/2038	$275,000,000
				OE Total	$650,000,000
Ohio Edison Funding LLC	Phase-In Recovery Bond	33766QAA5	0.679%	1/15/2017*	$4,279,375
	Phase-In Recovery Bond	33766QAB3	1.726%	1/15/2020*	$10,202,000
	Phase-In Recovery Bond	33766QAC1	3.450%	1/15/2034*	$123,612,000
				OE Funding LLC Total	$138,093,375
The Illuminating Company (CEI)	Senior Note	186108CF1	5.700%	4/1/2017	$130,000,000
	Secured Note	186108BU9	7.880%	11/1/2017	$300,000,000
	First Mortgage Bond	186108CH7	8.875%	11/15/2018	$300,000,000
	First Mortgage Bond	186108CJ3	5.500%	8/15/2024	$300,000,000
	Senior Note	186108CE4	5.950%	12/15/2036	$300,000,000
				CEI Total	$1,330,000,000

* Expected Final Maturity Date

As of December 31, 2015

Ohio – **Long-Term Debt Schedules**

Company	Type	CUSIP	Interest Rate	Maturity	Amount Outstanding
CEI Funding LLC	Phase-In Recovery Bond	33766QAA5	0.679%	1/15/2017*	$23,434,114
	Phase-In Recovery Bond	33766QAB3	1.726%	1/15/2020*	$56,383,000
	Phase-In Recovery Bond	33766QAC1	3.450%	1/15/2034*	$103,160,000
				CEI Funding LLC Total	**$182,977,114**
Toledo Edison	Senior Secured Notes	889175BE4	7.25%	5/1/2020	$50,000,000
	Senior Secured Notes	889175BD6	6.15%	5/15/2037	$300,000,000
				TE Total	**$350,000,000**
Toledo Edison Funding LLC	Phase-In Recovery Bond	33766QAA5	0.679%	1/15/2017*	$1,563,247
	Phase-In Recovery Bond	33766QAB3	1.726%	1/15/2020*	$3,883,000
	Phase-In Recovery Bond	33766QAC1	3.450%	1/15/2034*	$35,711,000
				TE Funding LLC Total	**$41,157,247**

* Expected Final Maturity Date

As of December 31, 2015

Pennsylvania Operations

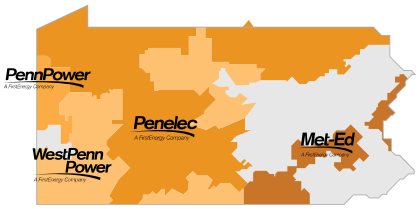


Pennsylvania – **Customer Data**

2015 Total Customers (thousands)	
Penelec (Includes NY – 4)	588
Met-Ed	561
Penn Power	164
West Penn Power	723
Total	2,036

Typical Bill Comparison*	
Pennsylvania	$/Month
Penelec	$142.64
Met-Ed	$135.67
Penn Power	$135.22
West Penn Power	$112.28
Statewide Avg. Bill	$141.87

* Typical bills are based on 1,000 kWh of residential usage. Billing amounts sourced from the EEI Typical Bills and Average Rates Report as of July 1, 2015. Pennsylvania rates represent Default Service Provider bundled residential rates.



Major Metropolitan Areas	Population (thousands)
York County (York)	436
Berks County (Reading)	412
Westmoreland County (Greensburg)	365
Erie County (Erie)	281
Total State of Pennsylvania	12,711

Source: U.S. Census Bureau (2010)

Principal Industries Served**
Primary and Fabricated Metals
Coal Mining
Chemical
Plastic and Rubber
Non-Metallic Minerals

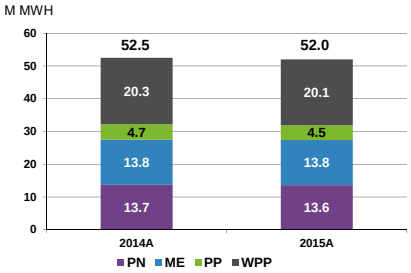
** Based on kWh sales

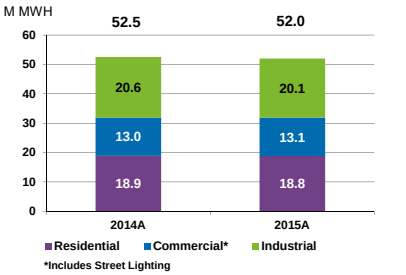
As of December 31, 2015

Pennsylvania – **Distribution Sales**

State Unemployment Rates (%)					
	2011	2012	2013	2014	2015
PA	7.9%	7.7%	7.0%	5.6%	5.2%

Source: Moody's Analytics





Gross Domestic Product Annualized Growth (Seasonally Adjusted Annualized Rate)					
	2011	2012	2013	2014	2015
PA	1.1%	0.7%	1.5%	1.8%	1.6%

Source: Moody's Analytics

Gross Domestic Product, in 2009 dollars ($ billions)					
	2011	2012	2013	2014	2015
PA	$585	$589	$598	$609	$619

Source: Moody's Analytics

As of December 31, 2015

Pennsylvania – **Political Landscape**

Governor

Governor	Current Term
Thomas W. Wolf (D)	Expires in 2019

Pennsylvania Public Utility Commission (PAPUC)

Commissioners	Current Term
Gladys M. Brown, Chairman (D)	Expires in 2018
Andrew G. Place, Vice Chairman (D)	Expires in 2020
Pamela A. Witmer (R)	Expires in 2016
Robert F. Powelson (R)	Expires in 2019
John F. Coleman, Jr. (R)	Expires in 2020

Pennsylvania – **Energy Efficiency**

	Pennsylvania
State Goals	**PA Act 129**
Energy Efficiency	**By 5/31/2016 (1,090 GWh) – Phase II:** ME +2.3% (338 GWh); PN +2.2% (319 GWh); PP +2.0% (96 GWh); WPP +1.6% (338 GWh) **By 5/31/2021 (1,862 GWh) – Phase III:** ME +4.0% (599 GWh); PN +3.9% (566 GWh); PP +3.3% (157 GWh); WPP +2.6% (540 GWh)
Demand Response	**No peak reduction targets in Phase II, 6/2013-5/2016** **Peak reduction targets in Phase III, 6/2016-5/2021:** ME +1.8% (49MW); PN 0.0% (0 MW); PP +1.7% (17 MW); WPP +1.8% (64 MW)
Smart Meter	**Smart Meter full deployment** ▪ **Mandatory deployment within 15-year depreciation cycle**
Status	
Smart Meter	**Commission approval received June 5, 2014, on the Revised Smart Meter Deployment Plan** **Deployment began in July 2014 in PP and continues as planned for nearly all Pennsylvania customers through mid-2019.**
Cost Recovery for Energy Efficiency	**In place; annual energy efficiency rider**
Compliance	**On track to achieve 2016 EE targets**

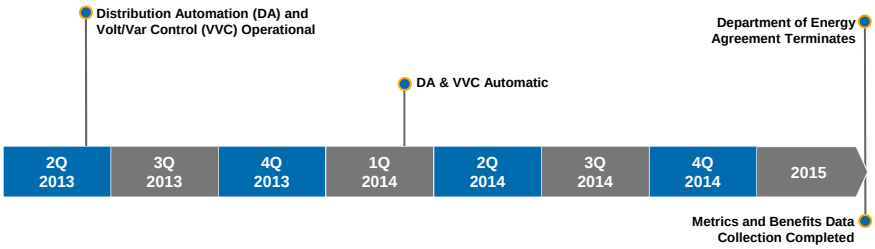
Smart Grid	
Cross-cutting* Technologies/ Programs	**ME ($33M)**
Distribution Automation	**$9**
Volt / VAR Control	**$5**
Integrated Distributed Energy Resource Direct Load Control	**$19**

- **60-month DOE period of performance ended June 1, 2015**
- **All programs completed June 1, 2015**
- **All prudently incurred costs reimbursed 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

Pennsylvania – **Smart Grid Modernization Initiative Update**

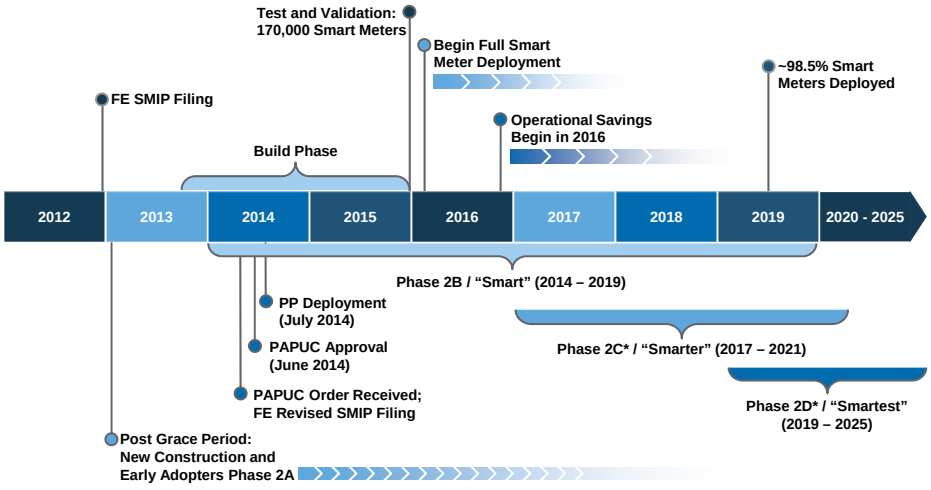
- **Project Status: 100% Complete**
- **$33M spent through June 1, 2015, expiration of DOE agreement**



Pennsylvania – **Smart Meter Update**

- **Commission Approval Received on June 5, 2014**
  - Order approves the Revised Smart Meter Deployment Plan
- **Revised Deployment Plan Timeframe**
  - Deployment began in July 2014 in PP and continues as planned with full-scale deployment for nearly all Pennsylvania customers through mid-2019
  - Successfully completed through the end of 2015 the installation of approximately 163,000 meters in PP including the testing and validation of the supporting end-to-end infrastructure
  - On track to install approximately 500,000 meters annually in the remaining Pennsylvania Operating Companies in 2016 through 2018 with another 300,000 meters to be installed through mid-2019. All remaining meters are planned to be installed by the end of 2022
- **Financial Impacts**
  - 20-Year Cost: $1.26B
    - Deployment cost Included in Total Cost: $815M
  - Estimated Operational Savings: $417M
    - Meter Reading: $383M
    - Meter Services: $13M
    - Contact Center: $2M
    - Back Office: $19M
  - Through December 2015, the Pennsylvania Operating Companies spent a total of $251.1 M with $147.3 M representing capital costs and $103.8 M representing O&M expenses
- **Cost recovery is included in base rates, effective May 3, 2015**

Pennsylvania – **Smart Meter Update**



*Smarter and Smartest Phases are not included in the Business Case

Pennsylvania – **Regulatory Update**

	Final Approved Rate Case Summary[1]			
	Met-Ed	Penelec	Penn Power	West Penn Power
Case Docket #	R-2014-2428745	R-2014-2428743	R-2014-2428744	R-2014-2428742
Capital Structure[2]	50.00% Debt, 50.00% Equity 5.21% Cost of Debt	50.10% Debt, 49.90% Equity 5.72% Cost of Debt	49.90% Debt, 50.10% Equity 6.12% Cost of Debt	49.90% Debt, 50.10% Equity 5.38% Cost of Debt
ROE[3]	Settled	Settled	Settled	Settled
Overall Return[3]	Settled	Settled	Settled	Settled
Percentage Change Over Revenues At Existing Rates[4]	6.8%	6.6%	5.2%	7.0%
($ Thousands)				
Distribution Base Rates	$90,000	$91,300	$17,000	$59,900
USC Rider	–	–	–	29,600
DSS and HPS Riders	(700)	(500)	(1,100)	7,300
Smart Meter	Included in Distribution	Included in Distribution	Included in Distribution	Included in Distribution
Annual Total Revenue Increase	$89,300	$90,800	$15,900	$96,800
Annual Pre-tax Earnings Impact	$56,200	$71,900	$13,000	$64,000

[1] Approved by the PAPUC on April 9, 2015
[2] Reflects filed debt liquidity and cost of debt
[3] Settlements did not disclose these specific elements
[4] Percentage was calculated based on total estimated revenue for the fully projected future test year consisting of distribution revenue as well as generation service revenue, with the latter reflecting generation rates equivalent to the Companies' prices for applicable default service

Settlements and supporting documents filed by ME, PN, PP, and WPP are available at www.puc.state.pa.us

Pennsylvania – **Regulatory Update**

- **WPP Universal Service Rider – makes the WPP Universal Service cost recovery consistent with ME, PN and PP**
  - Enables WPP to increase expenditures and enhance existing programs in response to changes in economic conditions
  - Rate filed annually on December 1
  - Charged to residential customers only
- **Default Service Support (DSS)/Hourly Pricing Service (HPS) rider changes – Uncollectibles normalized**
  - Update WPP DSS rider to include default service and purchase of receivable-related uncollectible expense
  - Collect industrial default service related uncollectibles through the HPS rider
- **Time-of-Use**
  - Elimination of time-of-use distribution rates (Rate Schedule Residential Time of Day) for ME and PN
  - Creation of Time-of-Use Riders for Residential Price-to-Compare charge for ME and PN
- **Storm Reserve Accounts established for non-extraordinary storms**
  - Enables each Company to defer storm-related expenses for future recovery

Pennsylvania – **Regulatory Update**

- **Met-Ed, Penelec, Penn Power and West Penn Power Default Service Programs for June 2017 – May 2019**
  - Default Service Programs filed on November 3, 2015
  - Intervenor Direct Testimony was filed on January 14, 2016
  - Rebuttal Testimony filed on February 9, 2016, with Surrebuttal Testimony due on February 19
  - Hearings to be held in Harrisburg, PA on February 24-25, 2016
  - Initial Briefs to be filed March 18, 2016, and Reply Briefs to be filed April 1, 2016
  - ALJ recommended decision expected May 2016
  - PAPUC approval expected by July 31, 2016
  - Changes and new rates for Price to Compare Default Service Riders and Default Service Support Riders become effective on June 1, 2017

Pennsylvania – **Regulatory Update**

Long Term Infrastructure Improvement Plans

- **Met-Ed, Penelec, Penn Power and West Penn Power each filed a Long Term Infrastructure Improvement Plan (LTIIP) on October 19, 2015, for the five-year period from 2016 through 2020**
  - The Companies proposed a total capital investment of $245M over the five-year period
- **On February 11, 2016, the PAPUC approved the Pennsylvania Companies LTIIPs**
- **On February 16, 2016, the Pennsylvania Companies filed Distribution System Improvement Charge (DSIC) riders for PAPUC approval for quarterly cost recovery associated with the capital projects approved in the LTIIPs. The DSIC riders are expected to be effective July 1, 2016.**

Pennsylvania – **Procurement Schedule**

ME Default Service Supply Plan • June 1, 2015, to May 31, 2017

Residential Full Requirements Tranche Procurement Schedule

Auction Month	Tranches	6/1/15 to 8/31/15	9/1/15 to 11/30/15	12/1/15 to 2/29/16	3/1/16 to 5/31/16	6/1/16 to 8/31/16	9/1/16 to 11/30/16	12/1/16 to 2/28/17	3/1/17 to 5/31/17
October 2014	4	12-Months - $77.89 / MWH							
	4	24-Months - $76.82 / MWH							
January 2015	4	12-Months - $65.74 / MWH							
	4	24-Months - $66.03 / MWH							
April 2015	5	12-Months - $66.53 / MWH							
	4	24-Months - $66.44 / MWH							
October 2015	4					12-Months - $56.23 / MWH			
January 2016	4					12-Months - $51.28 / MWH			
April 2016	5					12-Months			

Commercial Full Requirements Tranche Procurement Schedule

Auction Month	Tranches	6/1/15 to 8/31/15	9/1/15 to 11/30/15	12/1/15 to 2/29/16	3/1/16 to 5/31/16	6/1/16 to 8/31/16	9/1/16 to 11/30/16	12/1/16 to 2/28/17	3/1/17 to 5/31/17
October 2014	2	12-Months - $86.56							
	2	24-Months - $89.56							
January 2015	2	12-Months - $66.09 / MWH							
	2	24-Months - $66.53 / MWH							
April 2015	3	3-Months - $67.20 / MWH							
	1	12-Months - $65.03 / MWH							
	1	24-Months - $65.15 / MWH							
June 2015	3		3-Months - $56.46 / MWH						
October 2015	3			3-Months - $70.35 / MWH					
	2					12-Months - $56.66 / MWH			
January 2016	3				3-Months - $49.18 /MWH				
	2					12-Months - $50.50 / MWH			
April 2016	3					3-Months			
	1					12-Months			
June 2016	3						3-Months		
October 2016	3							3-Months	
January 2017	3								3-Months

Hourly Price Service Tranche Procurement Schedule

Auction Month	Tranches	6/1/15 to 8/31/15	9/1/15 to 11/30/15	12/1/15 to 2/29/16	3/1/16 to 5/31/16	6/1/16 to 8/31/16	9/1/16 to 11/30/16	12/1/16 to 2/28/17	3/1/17 to 5/31/17
January 2015	8	12-Months - $30.50 / MWH							
January 2016	8					12-Months - $18.64 / MWH			

Pennsylvania – **Procurement Schedule**

PN Default Service Supply Plan • June 1, 2015, to May 31, 2017

Residential Full Requirements Tranche Procurement Schedule

Auction Month	Tranches	6/1/15 to 8/31/15	9/1/15 to 11/30/15	12/1/15 to 2/29/16	3/1/16 to 5/31/16	6/1/16 to 8/31/16	9/1/16 to 11/30/16	12/1/16 to 2/28/17	3/1/17 to 5/31/17
October 2014	3	12-Months - $73.24 / MWH							
	3	24-Months - $73.61 / MWH							
January 2015	3	12-Months - $63.47 / MWH							
	3	24-Months - $63.75 / MWH							
April 2015	3	12-Months - $62.37 / MWH							
	3	24-Months - $63.16 / MWH							
October 2015	3					12-Months - $54.54 / MWH			
January 2016	3					12-Months - $51.28 / MWH			
April 2016	3					12-Months			

Commercial Full Requirements Tranche Procurement Schedule

Auction Month	Tranches	6/1/15 to 8/31/15	9/1/15 to 11/30/15	12/1/15 to 2/29/16	3/1/16 to 5/31/16	6/1/16 to 8/31/16	9/1/16 to 11/30/16	12/1/16 to 2/28/17	3/1/17 to 5/31/17
October 2014	2	12-Months - $86.67							
	2	24-Months - $80.13							
January 2015	2	12-Months - $63.69 / MWH							
	2	24-Months - $64.34 / MWH							
April 2015	5	3-Months - $66.89 / MWH							
	1	12-Months - $64.12 / MWH							
	1	24-Months - $62.25 / MWH							
June 2015	5		3-Months - $58.05 / MWH						
October 2015	5			3-Months - $62.39 / MWH					
	2					12-Months - $56.31 / MWH			
January 2016	5				3-Months - $51.32 / MWH				
	2					12-Months - $53.70 MWH			
April 2016	5					3-Months			
	1					12-Months			
June 2016	5						3-Months		
October 2016	5							3-Months	
January 2017	5								3-Months

Hourly Price Service Tranche Procurement Schedule

Auction Month	Tranches	6/1/15 to 8/31/15	9/1/15 to 11/30/15	12/1/15 to 2/29/16	3/1/16 to 5/31/16	6/1/16 to 8/31/16	9/1/16 to 11/30/16	12/1/16 to 2/28/17	3/1/17 to 5/31/17
January 2015	9	12-Months - $17.50 / MWH							
January 2016	9					12-Months - $13.81 / MWH			

Pennsylvania – **Procurement Schedule**

PP Default Service Supply Plan • June 1, 2015, to May 31, 2017

Residential Full Requirements Tranche Procurement Schedule

Auction Month	Tranches	6/1/15 to 8/31/15	9/1/15 to 11/30/15	12/1/15 to 2/29/16	3/1/16 to 5/31/16	6/1/16 to 8/31/16	9/1/16 to 11/30/16	12/1/16 to 2/28/17	3/1/17 to 5/31/17
October 2014	1	12-Months - $85.15 / MWH							
	1	24-Months - $78.47 / MWH							
January 2015	1	12-Months - $74.16 / MWH							
	1	24-Months - $72.32 / MWH							
April 2015	1	12-Months - $77.45 / MWH							
	1	24-Months - $69.93 / MWH							
October 2015	1					12-Months - $56.87 / MWH			
January 2016	1					12-Months - $55.50 / MWH			
April 2016	1					12-Months			

Commercial Full Requirements Tranche Procurement Schedule

Auction Month	Tranches	6/1/15 to 8/31/15	9/1/15 to 11/30/15	12/1/15 to 2/29/16	3/1/16 to 5/31/16	6/1/16 to 8/31/16	9/1/16 to 11/30/16	12/1/16 to 2/28/17	3/1/17 to 5/31/17
October 2014	1	12-Months - $89.65							
	1	24-Months - $83.19							
January 2015	1	12-Months - $82.87 / MWH							
	1	24-Months - $78.74 / MWH							
April 2015	1	3-Months - $87.50 / MWH							
	1	12-Months - $81.67 / MWH							
	1	24-Months - $77.00 / MWH							
June 2015	1		3-Months - $77.66 / MWH						
October 2015	1			3-Months - $72.65 / MWH					
	1					12-Months - $61.24 / MWH			
January 2016	1				3-Months - $73.61 / MWH				
	1					12-Months - $60.62 / MWH			
April 2016	1					3-Months			
	1					12-Months			
June 2016	1						3-Months		
October 2016	1							3-Months	
January 2017	1								3-Months

Hourly Price Service Tranche Procurement Schedule

Auction Month	Tranches	6/1/15 to 8/31/15	9/1/15 to 11/30/15	12/1/15 to 2/29/16	3/1/16 to 5/31/16	6/1/16 to 8/31/16	9/1/16 to 11/30/16	12/1/16 to 2/28/17	3/1/17 to 5/31/17
January 2015	2	12-Months - $25.95 / MWH							
January 2016	2					12-Months - $15.17 / MWH			

Pennsylvania – **Procurement Schedule**

WPP Default Service Supply Plan • June 1, 2015, to May 31, 2017

Residential Full Requirements Tranche Procurement Schedule

Auction Month	Tranches	6/1/15 to 8/31/15	9/1/15 to 11/30/15	12/1/15 to 2/29/16	3/1/16 to 5/31/16	6/1/16 to 8/31/16	9/1/16 to 11/30/16	12/1/16 to 2/28/17	3/1/17 to 5/31/17
October 2014	4	12-Months - $70.22 / MWH							
	4	24-Months - $70.09 / MWH							
January 2015	5	12-Months - $59.05 / MWH							
	5	24-Months - $57.93 / MWH							
April 2015	5	12-Months – 61.06 / MWH							
	5	24-Months - $60.11 / MWH							
October 2015	4					12-Months - $51.33 / MWH			
January 2016	5					12-Months - $49.32 / MWH			
April 2016	5					12-Months			

Commercial Full Requirements Tranche Procurement Schedule

Auction Month	Tranches	6/1/15 to 8/31/15	9/1/15 to 11/30/15	12/1/15 to 2/29/16	3/1/16 to 5/31/16	6/1/16 to 8/31/16	9/1/16 to 11/30/16	12/1/16 to 2/28/17	3/1/17 to 5/31/17
October 2014	3	12-Months - $75.73							
	3	24-Months - $74.46							
January 2015	3	12-Months - $60.52 / MWH							
	3	24-Months - $62.00 / MWH							
April 2015	4	3-Months - $61.56 / MWH							
	1	12-Months - $59.68 / MWH							
	1	24-Months - $59.79 / MWH							
June 2015	4		3-Months - $51.88 / MWH						
October 2015	4			3-Months - $58.18 / MWH					
	2					12-Months - $51.26 / MWH			
January 2016	4				3-Months - $48.98 / MWH				
	2					12-Months - $49.12 / MWH			
April 2016	4					3-Months			
	3					12-Months			
June 2016	4						3-Months		
October 2016	4							3-Months	
January 2017	4								3-Months

Hourly Price Service Tranche Procurement Schedule

Auction Month	Tranches	6/1/15 to 8/31/15	9/1/15 to 11/30/15	12/1/15 to 2/29/16	3/1/16 to 5/31/16	6/1/16 to 8/31/16	9/1/16 to 11/30/16	12/1/16 to 2/28/17	3/1/17 to 5/31/17
January 2015	13	12-Months - $14.75 / MWH							
January 2016	13					12-Months - $6.37 / MWH			

Pennsylvania – **Long-Term Debt Schedules**

Company	Type	CUSIP	Interest Rate	Maturity	Amount Outstanding
Penn Power	First Mortgage Bond	Private Placement	9.74%	11/1/2019	$3,929,000
	First Mortgage Bond	Private Placement	6.09%	6/30/2022	$100,000,000
				PP Total	**$103,929,000**
Penelec	Senior Note	708696BU2	6.05%	9/1/2017	$300,000,000
	Senior Note	708696BM0	6.625%	4/1/2019	$125,000,000
	Senior Note	708696BW8	5.2%	4/1/2020	$250,000,000
	Senior Note	708696BX6	4.15%	4/15/2025	$200,000,000
	Senior Note	708696BV0	6.15%	10/1/2038	$250,000,000
				PN Total	**$1,125,000,000**

As of December 31, 2015

Pennsylvania – **Long-Term Debt Schedules**

Company	Type	CUSIP	Interest Rate	Maturity	Amount Outstanding
Met-Ed	Senior Note	591894BX7	7.7%	1/15/2019	$300,000,000
	Senior Note	591894BY5	3.5%	3/15/2023	$300,000,000
	Senior Note	591894CB4	4.0%	4/15/2025	$250,000,000
				ME Total	**$850,000,000**
West Penn Power	First Mortgage Bond	955278BG0	5.875%	8/15/2016	$145,000,000
	First Mortgage Bond	955278BH8	5.95%	12/15/2017	$275,000,000
	First Mortgage Bond	Private Placement	3.34%	4/15/2022	$100,000,000
	First Mortgage Bond	Private Placement	4.45%	9/15/2045	$150,000,000
				WPP Total	**$670,000,000**

As of December 31, 2015

New Jersey Operations

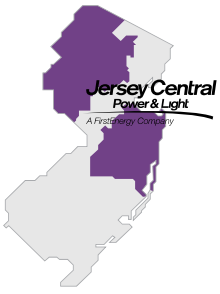


New Jersey – Customer Data

2015 Total Customers (thousands)	
JCP&L	1,109

Typical Bill Comparison*	
New Jersey	$/Month
JCP&L	$135.97
Statewide Avg. Bill	$166.53

* Typical bills are based on 1,000 kWh of residential usage. Billing amounts sourced from the EEI Typical Bills and Average Rates Report as of July 1, 2015. New Jersey rates represent POLR bundled residential rates.



Major Metropolitan Areas	Population (thousands)
Monmouth County (Middleton Township)	631
Ocean County (Lakewood Township)	578
Morris County (Parsippany)	493
Somerset County (Franklin Township)	324
Total State of New Jersey	8,804

Source: U.S. Census Bureau (2010)

Principal Industries Served**
Chemical
Primary and Fabricated Metals
Plastic and Rubber

** Based on kWh sales

As of December 31, 2015

New Jersey – **Distribution Sales**

State Unemployment Rates (%)					
	2011	2012	2013	2014	2015
NJ	9.3%	9.2%	8.0%	6.6%	6.0%

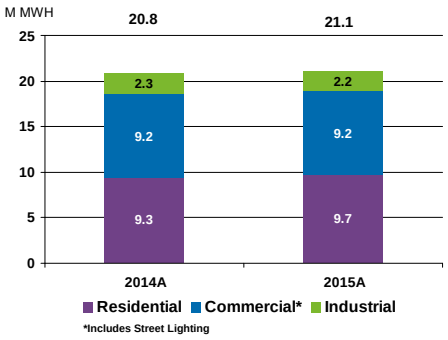
Source: Moody's Analytics

Gross Domestic Product Annualized Growth (Seasonally Adjusted Annualized Rate)					
	2011	2012	2013	2014	2015
NJ	-0.8%	2.5%	0.8%	0.4%	2.0%

Source: Moody's Analytics

Gross Domestic Product, in 2009 dollars ($ billions)					
	2011	2012	2013	2014	2015
NJ	$486	$498	$502	$504	$514

Source: Moody's Analytics



As of December 31, 2015

New Jersey – **Political Landscape**

Governor

Governor	Current Term
Christopher J. Christie (R)	Expires in 2018

New Jersey Board of Public Utilities (BPU)

Commissioners	Current Term
President Richard S. Mroz (R)	Expires in 2021
Dianne Solomon (R)	Expires in 2018
Joseph L. Fiordaliso (D)	Expires in 2019
Upendra Chivukula (D)	Expires in 2020
Mary-Anna Holden (R)	Expires in 2017

New Jersey – **Regulatory Update**

JCP&L Distribution Rate Case/Regulatory Proceedings

- **March 26, 2015: BPU issued a final Order in the Base Rate Case with rates effective April 1, 2015; Final Order issued in the Generic Storm Proceeding for recovery of the 2012 storm costs as part of this Base Rate Case; adjustment for CTA was also included**

	JCP&L November 30, 2012[1]	JCP&L August 7, 2013[1]	JCP&L May 5, 2014[1]	ALJ's Initial Decision January 8, 2015	BPU Final Order March 26, 2015
	Initial Filing	Revised ROE	Revised Debt Rate to 5.93%		
Rate Increase/(Decrease)	$31M, 1.4%*	$11M, 0.50%*	$9.1M, 0.40%*	($107.5M), (4.84%)*	($34.3M), (1.54%)*
Debt/Equity Ratio	46% / 54%	46% / 54%	46% / 54%	50% / 50%	50% / 50%
Return on Equity	11.53%	11.00%	11.00%	9.75%	9.75%
Rate Base	$2.040B	$2.024B	$2.021B	$1.901B	$2.089B

[1]Filing includes 2011 storm costs and does not include a CTA adjustment.

*Residential Rate Impact

New Jersey – **Energy Efficiency**

	New Jersey
State Goals	Energy Master Plan (EMP)
Energy Efficiency	Improved energy efficiency, conserving energy and lowering ratepayer costs by reducing peak demand – no specific state target
Demand Response	Utilities implement approved programs they propose – no specific state target
Smart Grid	Smart Grid DR program 2011. DOE funded circuit automation pilot for 2014
Cost Recovery for Energy Efficiency	In place; annual energy efficiency rider
Compliance	Current EE programs run by the State's Office of Clean Energy

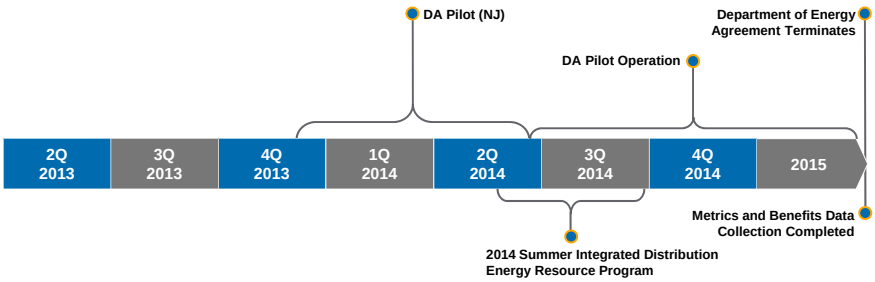
Smart Grid	
Cross-cutting* Technologies/ Programs	JCP&L ($15M)
Distribution Automation	$1
Integrated Distributed Energy Resource / Direct Load Control (IDER/DLC)	$14

- **60-month DOE project period of performance ended June 1, 2015. DOE Project Complete**
- **NJ BPU Order to operate IDER/DLC during cooling season (June 2015-Sept 2015) of final year in PJM**
- **All prudently incurred costs fully reimbursable via federal grant (exhausted June 2015) 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

New Jersey – **Smart Grid Modernization Initiative Update**

- **DOE Project Status: 100% Complete**
- **$15M spent through June 1, 2015, expiration of DOE agreement**



New Jersey – **Procurement Schedule**

JCP&L Generation Service Supply Plan
State-wide procurement process

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

		Delivery Period					
Auction	Tranches Bid	June 2014	June 2015	June 2016	May 2017	May 2018	May 2019
Feb-14	15	36 months - $84.44 / MWH					
Feb-15	20		36 months - $80.42 / MWH				
Feb-16	18			36 months- $74.85 / MWH			

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

		Delivery Period					
Auction	Tranches Bid	June 2014 – May 2015		June 2015 – May 2016		June 2016 – May 2017	
Feb-14	13	12 months - $254.79 / MW Day					
Feb-15	16			12 months - $248.41 / MW Day			
Feb-16	13					12 months - $259.24 / MW Day	

New Jersey – **Long-Term Debt Schedules**

Company	Type	CUSIP	Interest Rate	Maturity	Amount Outstanding
JCP&L	Senior Note	476556CM5	5.625%	5/1/2016	$300,000,000
	Senior Note	476556CW3	5.65%	6/1/2017	$250,000,000
	Senior Note	476556CK9	4.8%	6/15/2018	$150,000,000
	Senior Note	476556DA0	7.35%	2/1/2019	$300,000,000
	Senior Note	476556DB8	4.7%	4/1/2024	$500,000,000
	Senior Note	476556DC6	4.3%	1/15/2026	$250,000,000
	Senior Note	476556CP8	6.4%	5/15/2036	$200,000,000
	Senior Note	476556CT0	6.15%	6/1/2037	$300,000,000
				JCP&L Total	$2,250,000,000
JCP&L Transition Funding LLC	Transition Bond	47214TAD1	6.16%	6/5/2017*	$44,464,078
	Transition Bond	47215BAC1	5.52%	6/5/2018*	$32,129,009
	Transition Bond	47215BAD9	5.61%	6/5/2021*	$51,139,000
				JCP&L Transition Funding LLC Total	$127,732,087

* Expected Final Maturity Date

As of December 31, 2015

West Virginia/Maryland Operations





West Virginia/Maryland – **Customer Data**

2015 Total Customers (thousands)	
MP	390
PE	401
Total	791

Typical Bill Comparison*	
West Virginia/Maryland	$/Month
MP/PE-WV	$100.49
PE-MD	$107.41
WV Statewide Avg. Bill	$105.16
MD Statewide Avg. Bill	$143.10

* Typical bills are based on 1,000 kWh of residential usage. Billing amounts sourced from the EEI Typical Bills and Average Rates Report as of July 1, 2015. MD/WV rates represent POLR bundled residential rates



Principal Industries Served**
Chemical
Coal Mining
Non-Metallic Minerals
Primary and Fabricated Metals
Oil and Gas Extractions

** Based on kWh sales



Major Metropolitan Areas	Population (thousands)
Berkeley County (Martinsburg)	105
Monongalia County (Morgantown)	97
Wood County (Parkersburg)	87
Total State of West Virginia	1,854

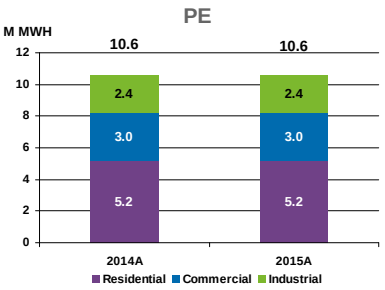
Major Metropolitan Areas	Population (thousands)
Frederick County	234
Washington County (Hagerstown)	148
Allegany County (Cumberland)	75
Total State of Maryland	5,788

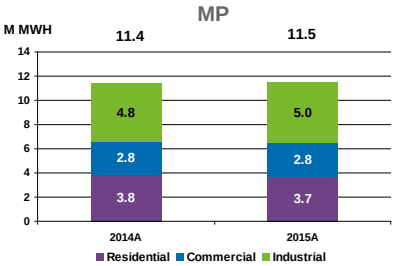
Source: U.S. Census Bureau (2010)
As of December 31, 2015

West Virginia/Maryland – **Distribution Sales**

State Unemployment Rates					
	2011	2012	2013	2014	2015
WV	8.0%	7.4%	6.7%	6.5%	6.8%
MD	7.1%	6.9%	6.5%	5.8%	5.3%

Source: Moody's Analytics





Gross Domestic Product Annualized Growth (Seasonally Adjusted Annualized Rate)					
	2011	2012	2013	2014	2015
WV	2.2%	-3.4%	1.3%	5.1%	0.8%
MD	1.3%	0.4%	0.7%	0.8%	2.0%

Source: Moody's Analytics

Gross Domestic Product, in 2009 dollars ($ billions)					
	2011	2012	2013	2014	2015
WV	$66	$64	$65	$68	$69
MD	$315	$316	$319	$321	$328

Source: Moody's Analytics

As of December 31, 2015

West Virginia/Maryland – **Political Landscape**

West Virginia

Governor

Governor	Current Term
Earl Ray Tomblin (D)	Expires in 2017

Public Service Commission of West Virginia (WV PSC)

Commissioners	Current Term
Michael A. Albert, Chairman (R)	Expires in 2019
Brooks F. McCabe (D)	Expires in 2021*
Kara Cunningham Williams (D)	Expires in 2017**

*Reappointed by Governor Tomblin on October 9, 2015. Continues to serve pending Senate confirmation.
** Appointed on October 9, 2015 and began serving immediately pending confirmation.

Maryland

Governor

Governor	Current Term
Lawrence J. Hogan (R)	Expires in 2019

Maryland Public Service Commission (PSC)

Commissioners	Current Term
W. Kevin Hughes, Chairman (D)	Expires in 2018
Harold D. Williams (D)	Expires in 2017
Michael T. Richard (R)	Expires in 2020
Jeannette M. Mills (R)	Expires in 2019
Anne E. Hoskins (D)	Expires in 2016

West Virginia – Regulatory Update

Rate Case

- **February 3, 2015: WVPSC approved joint settlement without modification**
  - Joint settlement includes:
    - $15M (1.43%) base rate increase, includes moving Harrison surcharge into base rates
    - Vegetation Management Surcharge of $48M (4.52%) in 2015
    - Vegetation Management Surcharge along with the base rate increase results in an overall increase of $63M (5.95%)
    - Recovery of $46M of storm costs through base rates over five years
    - Depreciation rates remain unchanged from current rate
    - ENEC rates effective February 25, 2015
    - Deferral of 2016-2017 MATS capital costs
    - Black box settlement does not provide ROE and income tax rate in base rates
- **February 25, 2015: Effective date of new rates and surcharge**

ENEC

- **2016 Update filed August 14, 2015**
  - Requested $165.1M increase based on fuel and purchased power costs and a reconciliation of the Harrison Surcharge
  - On September 10, 2015, testimony was filed to reduce the increase to $144.5M to reflect the results of the PJM Capacity Performance Transition Auction
  - WVPSC approved a joint settlement without modification on December 22, 2015, for an increase of $96.9M (7.3%) in ENEC rates beginning January 1, 2016:
    - Deferral of $50M for collection in 2017 or for consideration in a future rate case

West Virginia – **Regulatory Update**

West Virginia Vegetation Maintenance Program & MATS Compliance

- **Vegetation Management Surcharge reconciliation case filed August 31, 2015, requesting a $38M increase effective January 1, 2016 for two years, based upon deferred and forecasted vegetation management costs**
  - WVPSC approved a joint settlement without modification on December 21, 2015, for an increase of $37M (2.8%) in Vegetation Management Surcharge rates for a two-year period beginning January 1, 2016
- **MATS Compliance Capital Recovery**
  - New base rates include collection of MATS compliance capital projects placed in service by December 31, 2015
  - Establishes regulatory asset for MATS compliance capital projects placed in service during 2016-2017
  - Recovery of the regulatory asset expected in the next base rate case

Maryland – **Procurement Schedule**

			Delivery Period **		
Load Type	Tranches Bid *	Auction Date	June 2016 - May 2017	June 2017 - May 2018	June 2018 - May 2019
Residential	1	October 2015	12 Months		
	1		24 Months		
Residential	2	January 2016	12 Months		
	2		24 Months		
Residential	1	April 2016		12 Months	
	1			24 Months	
Residential	1	June 2016		12 Months	
	1			24 Months	

			Delivery Period **	
Load Type	Tranches Bid *	Auction Date	June 2016 - May 2017	June 2017 - May 2018
Small C&I	1	October 2015	24 Months	
Small C&I	1	January 2016	24 Months	

			Delivery Period **			
Load Type	Tranches Bid *	Auction Date	Dec 2015 – Feb 2016	March 2016 – May 2016	June 2016 – Aug 2016	Sept 2016 – Nov 2016
Medium C&I	3	October 2015	3 Months			
Medium C&I	3	January 2016		3 Months		
Medium C&I	3	April 2016			3 Months	
Medium C&I	3	June 2016				3 Months

* All tranches are for full requirements service.
**The Maryland PSC does not release bid or winning prices. However, a list of bidders who submitted bids and a list of winning bidders can be found at https://www.firstenergycorp.com/upp/md/power_procurements/mdsosrfp/archive.html

Maryland/West Virginia – **Energy Efficiency**

	Maryland	West Virginia
State Goals	**EmPOWER MD**	**Base Rate Case and Merger Settlements**
Energy Efficiency	1/1/2015 to 12/31/2017 +3.1% (230 GWh)[1]	0.5% of 2009 Sales by 12/31/2016 (67 GWh) Plus incremental 0.5% of 2013 Sales by May 2018 (71 GWh)
Demand Response	No peak demand reduction targets for 2015-2017	0.5% of 2009 Demand by 12/31/2016 (14 MW)
Smart Meter	No state smart meter requirement	No state smart meter requirement
Cost Recovery for Energy Efficiency	In place – 5-year amortization schedule with carrying costs and annual reconciliation	In place – annual energy efficiency rider
Compliance	2015 EE/DR targets achieved On track to achieve 2015-2017 EE/DR targets	On track to achieve EE/DR 2016 targets

[1]12/31/2017 savings estimates are based on Potomac Edison's approved 2015-2017 EE/PDR Plan. Additionally, on 7/16/2015, the MDPSC issued an Order setting new incremental energy savings goals for 2016 and beyond, beginning with the goal of 0.2% for 2016 and ramping up thereafter to reach 2%.

West Virginia/Maryland – **Long-Term Debt Schedules**

Company	Type	CUSIP	Interest Rate	Maturity	Amount Outstanding
Mon Power	Pollution Control Note*	41524CAU8	5.5%	10/15/2037	$73,500,000
	First Mortgage Bond	610202BL6	5.7%	3/15/2017	$150,000,000
	First Mortgage Bond	610202BN2	4.1%	4/15/2024	$400,000,000
	First Mortgage Bond	610202BP7	5.4%	12/15/2043	$600,000,000
				MP Total	**$1,223,500,000**
Mon Power Environmental Funding LLC	Environmental Control Bond	553214AB3	5.233%	7/15/2019**	$61,248,284
	Environmental Control Bond	553214AC1	5.463%	7/15/2026**	$153,250,000
	Environmental Control Bond	553214AD9	5.523%	7/15/2027**	$29,025,000
	Environmental Control Bond	553214AE7	5.127%	1/15/2031**	$64,380,000
				Mon Power Environmental Funding LLC Total	**$307,903,284**

*Mon Power assumed primary liability for this note from AE Supply in connection with the Harrison transfer
** Expected Final Maturity Date

As of December 31, 2015

West Virginia/Maryland – **Long-Term Debt Schedules**

Company	Type	CUSIP	Interest Rate	Maturity	Amount Outstanding
Potomac Edison	First Mortgage Bond	737662BS4	5.8%	10/15/2016	$100,000,000
	First Mortgage Bond	Private Placement	4.44%	11/15/2044	$200,000,000
	First Mortgage Bond	Private Placement	4.47%	8/15/2045	$145,000,000
				PE Total	**$445,000,000**
Potomac Edison Environmental Funding LLC	Environmental Control Bond	69336NAB5	5.233%	7/15/2019*	$20,596,705
	Environmental Control Bond	69336NAC3	5.463%	7/15/2026*	$50,700,000
	Environmental Control Bond	69336NAD1	5.523%	7/15/2027*	$9,975,000
	Environmental Control Bond	69336NAE9	5.127%	1/15/2031*	$21,510,000
				Potomac Edison Environmental Funding LLC Total	**$102,781,705**

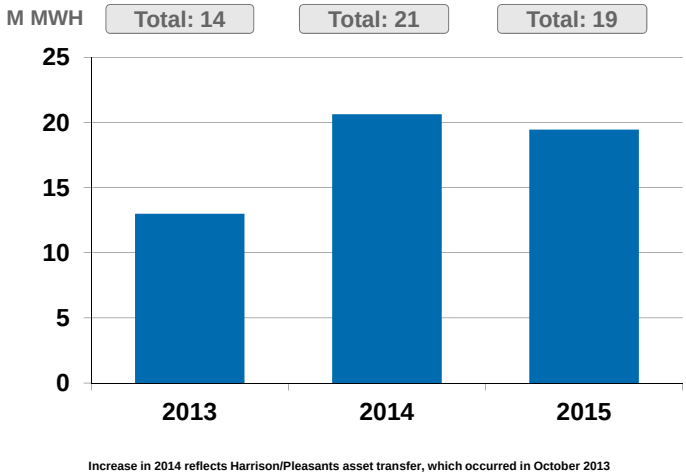
* Expected Final Maturity Date

As of December 31, 2015

Regulated Generation



Regulated Generation – **2013 - 2015 Output**



Increase in 2014 reflects Harrison/Pleasants asset transfer, which occurred in October 2013

Regulated Generation

Fuel

			Total Fleet – Coal Sources		
	Plants	Units	NAPP	Western	ILB
Supercritical Units	Harrison	1-3	✓		
	Fort Martin	1-2	✓	✓	✓

Fossil Environmental Controls

Supercritical

Plant	NDC	NOx Controls				SO_2 Controls		Particulate	Cooling Towers
		SCR	SNCR	LNB	OFA	Scrubbers[1]	Lo-S Fuel	Electro/Other[2]	
Harrison 1-3	1,984	✓		✓		✓		✓	✓
Fort Martin 1 & 2	1,098		✓	✓	✓	✓	✓	✓	✓
Sub-total	3,082								

[1]Scrubbed coal units have FGD (Flue Gas Desulfurization - equipment to remove sulfur from flue gas after combustion)
[2]Particulate Controls can include Venturi Scrubber or Electrostatic Precipitator

Regulated Generation – **Plant Deactivations**

- **660 MW deactivated as of September 1, 2012**

Regulated	NDC MW	2012 M MWH	2012 Capacity Factor (%)	Deactivation Date
Albright	292	0.2	10	9/1/2012
Rivesville	126	0.0	0	9/1/2012
Willow Island	242	0.0	1	9/1/2012
Total	660	0.2		

Regulated Generation – **MATS Overview**

- **MATS**
  - Total cost estimate of $177M, of which $122M has been spent through December 31, 2015

Plant	Technologies
Harrison 1-3	**Precip Changes, FGD changes, SCR Catalyst, Duct Repairs, CEMS**
Fort Martin 1 & 2	**GORE Mercury Control System, Duct Repairs, CEMS**

Regulated Generation – **Plant Details**

Plant	PJM Zone	State	Utility	Fuel Type	Units	Net Maximum Capacity (MW)	Year Plant Commissioned
Bath County	Rest of RTO	VA	MP	Hydro	6	487*	1985
Fort Martin	Rest of RTO	WV	MP	Coal	2	1,098	1967
Harrison	Rest of RTO	WV	MP	Coal	3	1,984	1972
OVEC	Rest of RTO	Multiple	MP	Coal	Multiple	11**	
	Rest of RTO Total					**3,580**	
Yards Creek	EMAAC	NJ	JCP&L	Hydro	3	210	1965
	EMAAC Total					**210**	
	Regulated Generation Total					**3,790**	

*Represents MP's approximate 41% shareholder interest in AGC, which owns a 40% interest in Bath County, a pumped-storage hydroelectric station The station is operated by 60% owner Virginia Electric and Power Company
**Represents MP's 0.49% entitlement based on its participation in OVEC

Transmission



Transmission – **Enhancing** Transmission Reliability for Customers

Energizing the Future

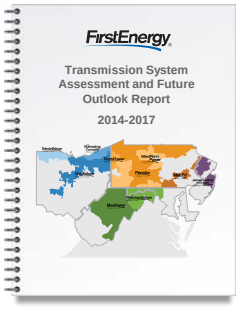
- **FirstEnergy's overall transmission program**
- **Includes all investments in ATSI, TrAILCo and other utility operating companies within the FirstEnergy footprint**

2014-2017 Growth Program

- **$4.2B plan initially focused primarily in ATSI and extending east over time**

Benefits

- **Focused on smaller-scale projects with near-term completion dates**
  - Majority of projects located in the ATSI region target 69kV lines and are outside of the RTEP approval process
  - Construction to occur on land where most rights-of-way are already secured
- **Enhanced system reliability and customer service**
- **Older equipment replaced with updated technology**
- **Decreased maintenance costs by converting to condition-based maintenance program that allows for equipment replacement using real-time data**



2018 and Beyond

- **$15B in incremental opportunities for reliability enhancement**

Transmission – *Energizing the Future*

Energizing the FUTURE

To increase system reliability and capacity for existing and new customers

Reliability Enhancements	**$1.6B**	▪ **Upgrade condition / health of the system** ▪ **Increase operating flexibility/margin** • Outage scheduling • System/storm restoration • Load serving capability for existing and new customers ▪ **Increase system performance/reliability** • Decrease exposure to outages • Decrease outage time ▪ **Increase automation and communication within the system** ▪ **Enhance communication infrastructure & cyber/physical security** ▪ **Reduce future transmission investment costs**
Regulatory Required	**$2.6B**	▪ **Preserves the reliability of PJM's transmission system** ▪ **Formula rate recoverable in both ATSI and TrAILCo** ▪ **RTEP approved projects (PJM requested to support grid reliability)** ▪ **Generator deactivation projects** ▪ **Enables future markets** ▪ **Emerging shale gas projects**

$4.2B plan initially focused primarily in ATSI and extending east over time

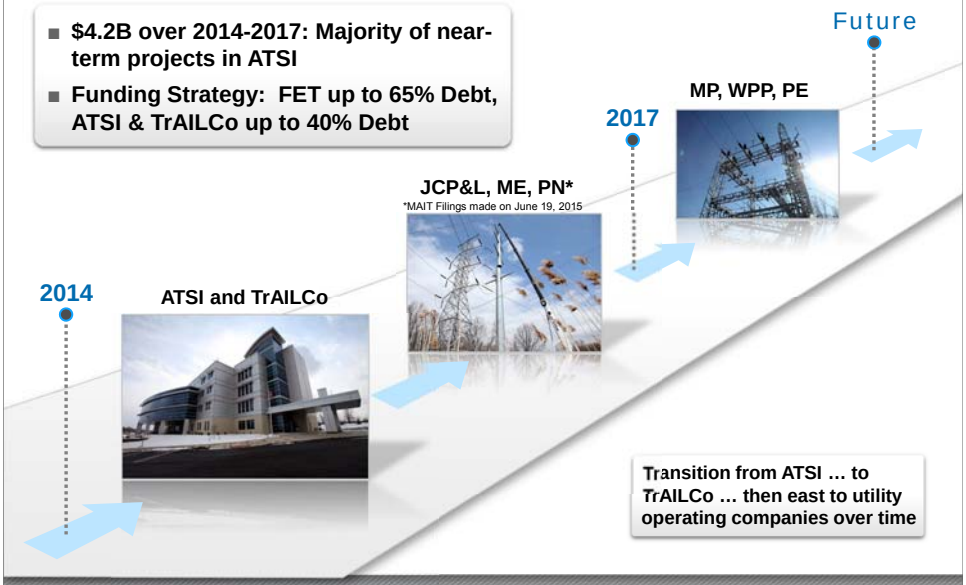
Transmission – **Formula Rate Summary**

	ATSI	TrAILCo
Jurisdiction	FERC	FERC
Filing Month	October	May
FERC-approved ROE	**10.38%***	**12.70% TrAIL the Line & Black Oak SVC 11.70% All other projects**
Rate Base	**$2.1B****	**$1.3B*****
Transmission system locations	**OE, PP, CEI, and TE**	**WPP, MP, and PE. Also some portions of JCP&L, ME, and PN**
Term	January – December	June – May
Test Year	**Forward-Looking:** Projects rate base and expenses for the calendar year	**Forward-Looking**: Utilizes prior year plant-in-service from FERC Form 1 and adds capital additions projected to be in service within current calendar year
True-up Mechanism	Yes	Yes
Calculation	Revenue Requirement used to calculate an Annual Network Rate and Point-to-Point rates	Revenue Requirement by project: ▪ TrAIL the Line ▪ Individual RTEP projects

*Under settlement agreement approved by the FERC on October 29, 2015, ATSI's ROE is: (1) 12.38% beginning January 1, 2015, through June 30, 2015; (2) 11.06% July 1, 2015 through December 31, 2015; and (3) 10.38% January 1, 2016
** Represents projected average rate base from its 2016 Projected Transmission Revenue Requirement effective January 1, 2016, through December 31, 2016.
*** Represents rate base from its annual update on May 15, 2015, for rates effective June 1, 2015

Transmission – **Enhancing** Transmission Reliability for Customers

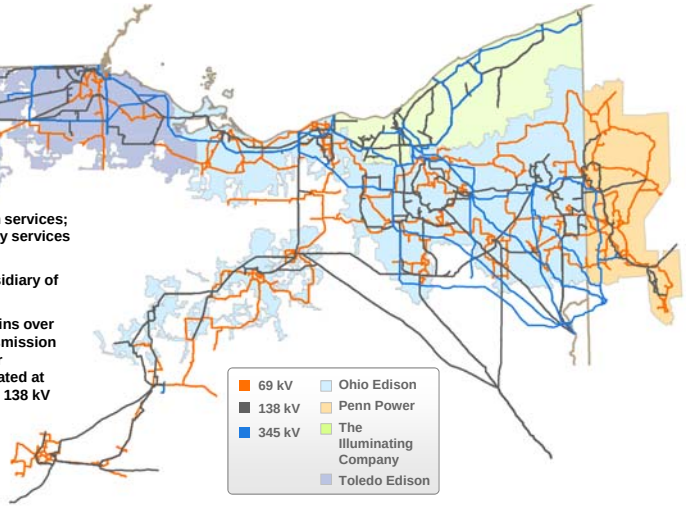
- **$4.2B over 2014-2017: Majority of near-term projects in ATSI**
- **Funding Strategy: FET up to 65% Debt, ATSI & TrAILCo up to 40% Debt**



Transmission – **Enhancing** Transmission Reliability for Customers

ATSI
American Transmission Systems, Inc.
a subsidiary of FirstEnergy Corp.

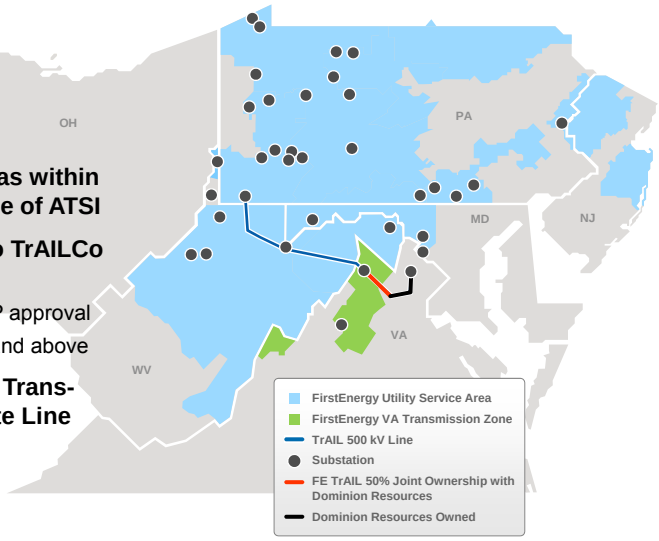
- **Only provides transmission services; does not provide retail utility services or own generation assets**
- **Wholly owned indirect subsidiary of FE Corp.**
- **Owns, operates and maintains over ~7,800 circuit-miles of transmission lines, substations and other transmission facilities operated at nominal voltages of 345 kV, 138 kV and 69 kV**



Transmission – **TrAILCo** Footprint

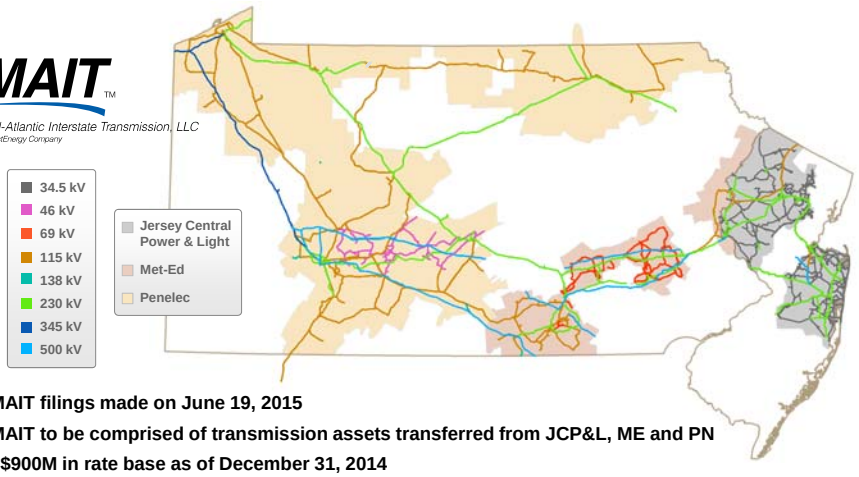
TrAILCo™
A FirstEnergy Company

- **Projects target areas within FE footprint outside of ATSI**
- **Assets assigned to TrAILCo must:**
  - Receive PJM RTEP approval
  - Operate at 100kV and above
- **Owns the 150-mile Trans-Allegheny Interstate Line (TrAIL)**



Transmission – Proposed MAIT Footprint

MAIT™
Mid-Atlantic Interstate Transmission, LLC
A FirstEnergy Company



- **MAIT filings made on June 19, 2015**
- **MAIT to be comprised of transmission assets transferred from JCP&L, ME and PN**
- **~$900M in rate base as of December 31, 2014**
- **FERC approval expected in first quarter 2016**
- **State approvals expected by mid-2016**
- **MAIT to operate as a transmission-only subsidiary of FET**

Transmission – **Enhancing** Transmission Reliability for Customers

Energizing the Future Capital Program	2014A*	2015A*	2016F	2017F
Formula Rate Recoverable Projects designed to upgrade and enhance system conditions, performance, capacity and reliability. Receive ATSI or TrAILCo formula rates.	$1,177M	$827M	$715M	$685M
Baseline Planned capital projects at operating companies (JCP&L, ME, MP, PN, PE, and WPP).	$246M	$159M	$320M	$125M
Total	$1,423M	$986M	$1,035M	$810M

Expected ATSI & TrAILCo average annual earnings growth of 20+%

* Includes $38M in 2014 and $10M in 2015 associated with the capital component of the Pension/OPEB mark-to-market adjustment

Transmission – **Upgrade Condition of the System**

- **Replace oil, single-pressure and two-pressure, gas-insulated circuit breakers with new single-pressure, gas-insulated circuit breakers due to deteriorating condition. New EHV circuit breakers will also include on-line diagnostic systems with capabilities to provide data to the new Asset Health System**
- **Replace power transformers due to deterioration of internal insulation with new transformers that include on-line diagnostic systems with capabilities to provide data to the new Asset Health System**
- **Evaluate and rebuild aging EHV and HV transmission lines (~2,500 circuit miles of 69kV and ~5,000 circuit miles of 138kV and 345kV)**
- **Based on the initial reliability review, anticipate rebuilding approximately 50% of the 69kV and 20% of the 138kV lines; however these percentages may change as overall condition assessment of the ATSI transmission system is completed**



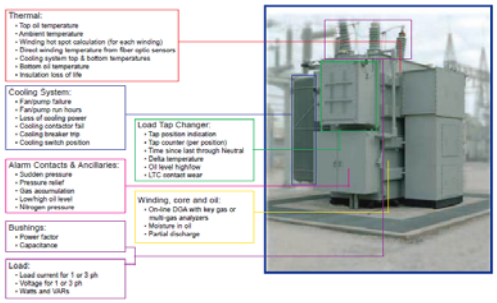
Oil pressure gas insulated circuit breaker (on left), replaced by gas-insulated circuit breaker (on right)



New transformers will provide data to the Asset Health System

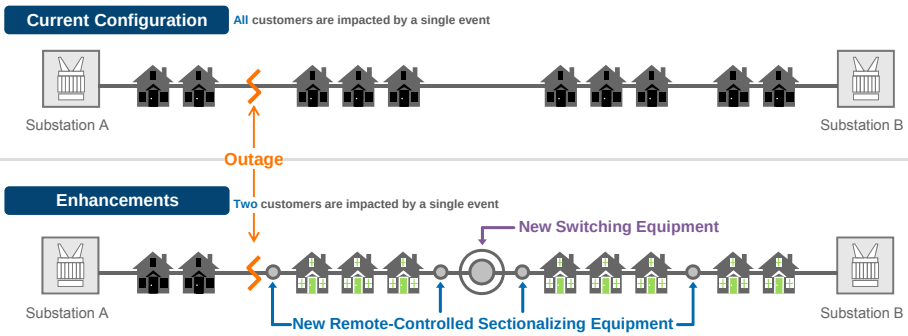
Transmission – Enhance System Performance

- **Implement an Asset Health System**
  - Provide situational awareness through real-time, consolidated data on asset condition
  - Reduce maintenance by enabling real-time data event analysis and condition assessment
- **Physical Security Enhancements**
  - Replace existing chain link perimeter fencing with no cut/no climb product where necessary
  - Expand use of perimeter video, thermal imaging and virtual inspection
- **Expand FirstEnergy's fiber and core network to critical transmission facilities**
  - Reduce/eliminate dependence on unreliable third-party communication assets
  - Increased capacity enables diagnostic data to provide proactive monitoring and enhanced reliability of critical equipment



Transmission – **Add Operating Flexibility and Capacity**

- **Rebuild existing single-circuit transmission lines as double-circuit transmission lines**
- **Build line segments to create parallel paths (loop feeds) to existing substations**
- **Reconfigure longer transmission lines with high customer loads to decrease the number of customers impacted by a single operational event**



2014 and 2015 Accomplishments

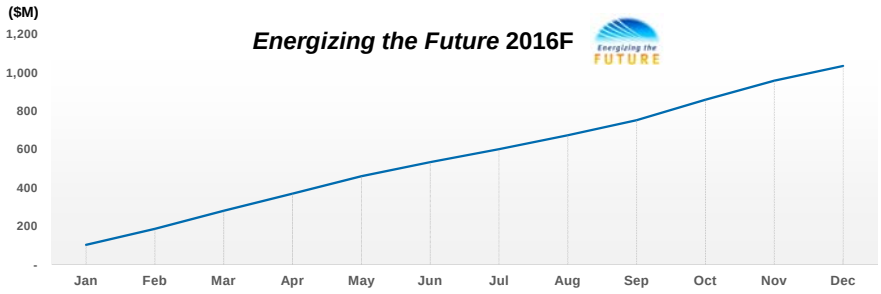
Energizing the Future

- **Completed Projects**
  - Approximately:
    - 2,000 pieces of substation equipment replaced, including transformers, capacitor banks, and circuit breakers
    - 425 miles of Transmission line projects
  - Physical Security Upgrade projects completed at approximately 50 substations
  - 3 Synchronous Condenser conversions and 6 Static Var Compensators (SVC) projects in-service
  - Approximately 80 Communication Upgrade projects completed
- **Over $2.4 Billion in Transmission Investments**

As of December 31, 2015

Transmission Program Status

- **2016 Projects**
  - Over 1,000 pieces of substation equipment slated for replacement/upgrades including:
    - 32 transformers, 17 capacitor banks, 150 breakers
  - Approximately 150 miles of Transmission line projects
  - Telecom/IT projects
  - 5 SVC Projects
  - 2 Synchronous Condenser conversion projects



Transmission – **Political Landscape**

Federal Energy Regulatory Commission (FERC)

Commissioners	Current Term
Norman C. Bay (D)- Chairman	Expires in 2018
Tony Clark (R)	Expires in 2016*
Colette D. Honorable (D)	Expires in 2017
Cheryl A. LaFleur (D)	Expires in 2019

*Term expires June 30, 2016, but could continue to serve until either the end of the current session of Congress or until a successor is nominated by the President and confirmed by the Senate, whichever comes first.

Transmission – **Long-Term Debt Schedules**

Company	Type	CUSIP	Interest Rate	Maturity	Amount Outstanding
FET	Senior Note	33767BAB5	4.35%	1/15/2025	$600,000,000
	Senior Note	33767BAA7	5.45%	7/15/2044	$400,000,000
				FET Total	$1,000,000,000
ATSI	Senior Note	030288AA2	5.25%	1/15/2022	$400,000,000
	Senior Note	Private Placement	4.00%	4/15/2026	$75,000,000
	Senior Note	030288AB0	5.00%	9/1/2044	$400,000,000
	Senior Note	Private Placement	5.23%	10/15/2045	$75,000,000
				ATSI Total	$950,000,000
TrAILCo	Senior Note	Private Placement	3.76%	5/30/2025	$75,000,000
	Senior Note	893045AE4	3.85%	6/1/2025	$550,000,000
				TrAILCo Total	$625,000,000

As of December 31, 2015

Competitive Operations



Taking Our Generation to the Competitive Market



Taking Our Generation to the Competitive Market

- **Utilize strong competitive knowledge**
- **Take advantage of flexibility given current committed position**

Effectively hedge generation

- Flexibility to continue POLR, Governmental Aggregation, and selected large commercial-industrial sales
- Enables the use of retail margin uplift to hedge during periods of low wholesale prices
- Employ a variety of hedging tools, including existing retail sales commitments, traditional forward wholesale sales and potentially Utility PPAs
- Strong focus on portfolio optimization and risk management

- **Leverage clean, efficient generation portfolio**
- **Mitigate risk**
- **Maximize margins**

"Long" generating strategy

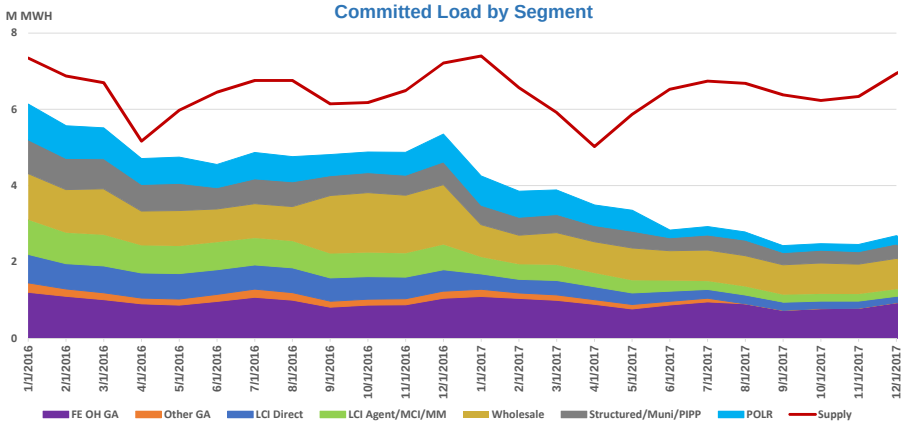
Annual generation resources of 80-85M MWH

- Benefit from established baseline of higher margin Governmental Aggregation load (13M MWH) and natural attrition of selected channels through 2019
- Reserve 10-20M MWH to protect weather-sensitive loads and to take advantage of opportunities resulting from scarcity pricing
- Target 10-45M MWH annually through POLR, Governmental Aggregation and selected large commercial-industrial sales
- Balance remainder of portfolio for sales in the wholesale market and potentially Utility PPAs

Adapt Competitive Operations to changing market dynamics

Existing Committed Sales

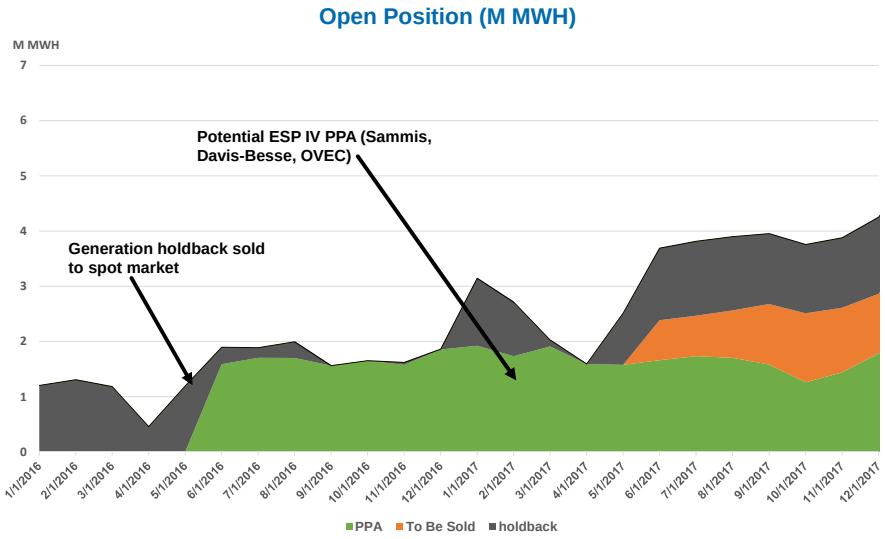
- **Retain POLR, GA and selected large commercial-industrial contracts**
- **Exit certain MCI, MM and LCI contracts through natural attrition**



Expected significant level of uncommitted sales provides flexibility

As of December 31, 2015

Flexible Hedging Platform to Bring Our Generation to Market



Optionality and Variety of Hedging Resources

Channel	Description	Value
Wholesale Sales	Sales in forward power markets made to hedge generation	Provides flexibility in volume and timing of hedge
GA	Buying group formed by 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 utility default service auctions. Current contracts run through 2019.	Higher-margin load, pricing of majority of sales moves with market, minimal acquisition cost, minimizes risk of POLR
POLR	Tranches of non-shopping load that is won through utilities' default service auctions	Higher-margin load, minimal acquisition cost and flexibility of participation
Structured	Includes municipality sales, co-operative sales, bilateral sales, and unique transactions	Higher-margin wholesale transactions made for strategic purposes
LCI	Selected/strategic direct sales to large commercial and industrial customers	Higher load factors, less weather sensitive, flexibility of term; a wholesale-type load with better margins
Utility PPA	Dedicated plant output (MW) to distribution utilities through PPA	Cost-based recovery; provides more revenue certainty
Spot Market Sales	Sales in day-ahead or real-time to take advantage of market volatility/scarcity pricing	Having a reserve dedicated to spot provides flexibility to manage weather sensitive loads and take advantage of market volatility
MCI and MM Sales	Small Commercial and Residential customers select renewals and new offers (i.e., green product). Majority of contracts expire naturally through 2018.	High cost to acquire and support customers; highly weather sensitive; high margin

Target Portfolio Mix

Weather Sensitive		Annual Load (M MWH)
✔	GA	10-15
✔	POLR	0-10
✔ / ✖	LCI Direct*	0-20
✖	Block Wholesale	10-20
✖	Spot Wholesale	10-20

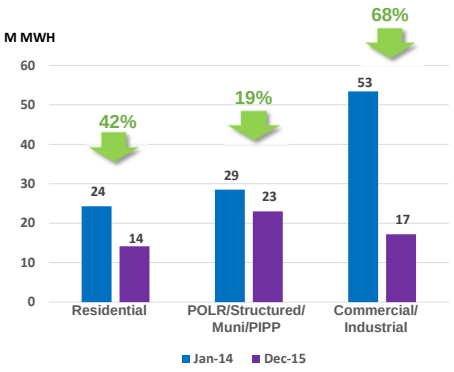
Annual Generation Resources = 80-85M MWH

*LCI Direct is less weather sensitive than GA and POLR

Repositioned and De-risked CES' Sales Portfolio

Mitigated risk through reduced sales to weather-sensitive channels

Total Annualized Usage of CES Retail & POLR portfolio 2015 vs. 2014[1]



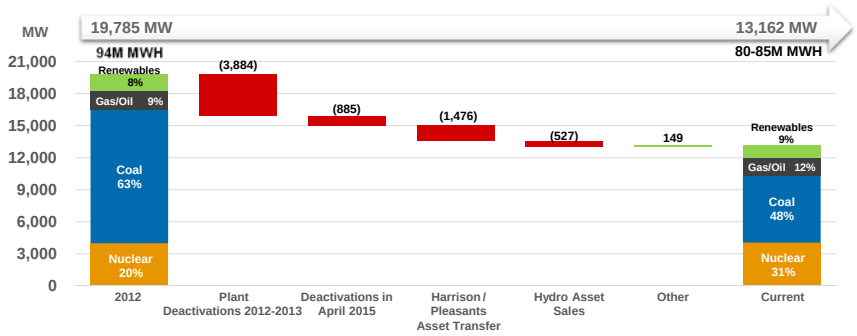
Indicative change (in MW) of CES demand obligation for each +/- 1ºF change in temperature

+/-	2014	2015	Change
Winter	85	70	(18)%
Summer	285	150	(47)%

[1] Expected annualized usage based on utility data as of January 2014 and December 2015. Customer data does not represent actual or projected annual load for calendar year 2014 or 2015.

As of December 31, 2015

Repositioning our Competitive Fleet Over Time



Current generation output of 75-80M MWH; additional resources of 0-5M MWH (includes Wind/Solar/OVEC)

The character and operation of our fleet has changed over the past several years

- **3,884 MW deactivated 2012-2013**
- **885 MW additional deactivations in April 2015**
- **1,854 MW includes asset transfer and sales and other actions including net uprates (96 MW), additional wind and solar PPA agreements (120 MW), less deactivations of Mad River plant (60 MW) and Burger Electro-Motive Diesel (7 MW)**

In 2016, the competitive generation portfolio will operate similarly to a natural gas portfolio in that ~100% of the power generated will come from low or non-emitting sources, yet also offer a diverse platform of resources

2015 CES Adjusted EBITDA

	Total		
	M MWH	Rate	$M
Sales:			
LCI/MCI/MM	27.5	$56	$1,533
GA & POLR	27.4	$63	$1,731
Structured & Muni	10.9	$44	$478
Wholesale	9.4	$35	$324
Other	2.9		
Capacity Revenue – BRA			$890
Total Revenues	78.1		$4,956
Expenses:			
Capacity & Delivery Expenses			($1,215)
Purchased Power	10.0	($40)	($405)
Nuclear Fuel	31.9	($6.97)	($222)
Fossil Fuel	36.2	($26.97)	($976)
Total Expenses	78.1		($2,818)
Commodity Margin[1]			**$2,138**
Commodity Margin (excl. Capacity Revenue)		**~$16**	**$1,248**

CES Adjusted EBITDA[2] – 2015
$949

2015 CES Adjusted EBITDA Notes

- **Sales:**
  - Volume and revenue in all channels represents 2015 actual results
  - Wholesale channel includes ~2M MWH of physical wholesale bilateral transactions
  - "Other" sales include distribution losses and pumping for Hydro units
- **Expenses:**
  - Capacity expense is the cost associated with serving load, net of incremental capacity auctions, bilateral transactions and CTRs
  - Delivery expenses, net of delivery revenues, include congestion, losses, ancillaries, Network Integration Transmission Service and the cost of Financial Transmission Rights

[1] Total 2015 CES Commodity Margin, a non-GAAP financial measure, is reconciled to 2015 CES Net Income on slide 133
[2] Total 2015 CES Adjusted EBITDA, a non-GAAP financial measure, is reconciled to 2015 CES Net Income on slide 132

2016F CES Adjusted EBITDA

	Closed			Open			Total		
	M MWH	Rate	$M	M MWH	Rate	$M	M MWH	Rate	$M
Sales:									
LCI/MCI/MM	16.4	$57	$925				16.4	$57	$925
GA & POLR	22.4	$61	$1,375				22.4	$61	$1,375
Structured & Muni	7.9	$44	$350				7.9	$44	$350
Wholesale	14.3	$36	$520	17.3	$33	$575	31.6	$35	$1,095
Other	2.1						2.1		
Capacity Revenue			$815						$815
Total Revenues	63.1		$3,985	17.3	$33	$575	80.4		$4,560
Expenses:									
Capacity & Delivery Expenses			($825)			($40)			($865)
Purchased Power	4.7	($43)	($200)				4.7	($43)	($200)
Nuclear Fuel	32.0	($7)	($230)				32.0	($7)	($230)
Fossil Fuel	26.4	($24)	($640)	17.3	($27)	($460)	43.7	($25)	($1,100)
Total Expenses	63.1		($1,895)	17.3		($500)	80.4		($2,395)
Commodity Margin[1]			**$2,090**			**$75**			**$2,165**
Commodity Margin (excl. Capacity Revenue)		**~$20**	**$1,275**		**~$4**	**$75**		**~$17**	**$1,350**

Closed Adjusted EBITDA Contribution	+	Open Adjusted EBITDA Contribution	=	CES Adjusted EBITDA[2] – 2016F
$875-$975		$75		$950 -$1,050

Please see slide 105 for additional notes describing "Sales" and "Expenses"
[1] Total 2016F CES Commodity Margin, a non-GAAP financial measure, is reconciled to 2016F CES Net Income on slide 133
[2] Total CES 2016F Adjusted EBITDA, a non-GAAP financial measure, is reconciled to 2016F CES Net Income on slide 132, and is based on market prices as of December 31, 2015. The "Closed Contribution" to Adjusted EBITDA is based on committed sales whereas the "Open Contribution" to Adjusted EBITDA is based on currently uncommitted sales that are assumed to be sold in the wholesale market assuming market prices as of December 31, 2015. The purpose of the table above is to summarize the impact of changes in market prices on currently uncommitted sales to Adjusted EBITDA.

2016F CES Adjusted EBITDA Notes

- **Sales:**
  - Volume in all channels, with the exception of wholesale, is subject to fluctuations due to weather and customer behavior
  - Portions of "Closed" GA revenues are not fixed as they are indexed to the utility PTC
  - When wholesale volumes are committed, they are categorized as "Closed" and moved to the appropriate channel. Additional retail channel sales could include an operating margin of ~$2 to $3 per MWH.
  - Wholesale channel includes ~3 M MWH of physical wholesale bilateral transactions
  - Wholesale "Open" rate is the weighted average of generation length based on forward market prices at AD Hub as of December 31, 2015. The "Closed" position represents physical and financial transactions executed to reduce market price risk.
  - "Other" sales include distribution losses and pumping for Hydro units
  - Capacity Revenue includes revenues from the legacy BRA, incremental/transitional capacity auctions, bilateral transactions and CTRs
- **Expenses:**
  - Capacity expense is the cost associated with serving load
  - Delivery expenses, net of delivery revenues, include congestion, losses, ancillaries, Network Integration Transmission Service and the cost of Financial Transmission Rights. Can vary based on delivery location, channel and market conditions.
    - A delivery expense of ~$2 – $4/MWH is incurred to serve wholesale load
    - A delivery expense of ~$3 – $6/MWH is incurred to serve retail load
  - Generation volume is committed in the following order: (1) Purchased Power, which includes Renewables/OVEC of ~2M MWH and additional Bilateral/Spot Purchases, (2) Nuclear, and (3) Fossil
  - Fossil Fuel expense includes Coal, Gas, and Hydro expenses and CFIP savings
  - The +/- $50 M range is applied to account for potential variation in generation fleet performance, load fluctuations and other variable/fixed costs.

CES Commodity Margin Current Assumptions

		2016	2017
Energy Prices	**AD Hub Forwards** (On-peak/Off-peak $/MWH)	$37 / $27	$38 / $28
	PJM West Forwards (On-peak/Off-peak $/MWH)	$42 / $29	$42 / $30
	Ind Hub Forwards (On-peak/Off-peak $/MWH)	$35 / $26	$37 / $27
Fuel Prices	**Henry Hub Natural Gas** ($/MMBTU)	$2.50	$2.80
	Dominion South Natural Gas ($/MMBTU)	$1.53	$2.01

	Impact to Commodity Margin/Adjusted EBITDA	
Sensitivities*	**2016**	**2017**
+ / - $5/MWH RTC Energy Prices	**+ / - $85M**	**+ / - $195M**
Fuel Cost Exposure		
+ / - $1/MMBTU Natural Gas	**+ / - $5M**	**+ / - $25M**
+ / - $5/Ton Eastern Coal	**+/ - $5M**	**+ / - $11M**
+ / - $5/Ton Western Coal	**+/ - $2M**	**+ / - $2M**

*RTC energy price sensitivities relate to the impact of the change in prices on CES' open position.
Gas and coal sensitivities relate to the impact of the change in prices on CES' open gas and coal position.

As of December 31, 2015

Committed Sales by Zone

Calendar Year	2014A			2015A			2016F			2017F		
Committed Sales	**M MWH**	**$ M**	**$/MWH**	**M MWH**	**$ M**	**$/MWH**	**M MWH**	**$ M**	**$/MWH**	**M MWH**	**$ M**	**$/MWH**
ATSI	33	$1,910	$57	31	$1,730	$55	24	$1,375	$56	15	$850	$56
Rest of RTO	46	2,345	51	33	1,645	50	31	1,435	47	20	890	44
MAAC	11	730	67	6	420	65	3	220	67	1	90	63
EMAAC	2	175	75	1	100	74	<1	25	76	<1	15	77
MISO	7	305	47	4	170	46	2	115	51	1	45	51
Total Committed Sales	99	$5,465	$55	75	$4,065	$55	61	$3,170	$52	38	$1,890	$50

Planning Year	PY 14/15A			PY 15/16F			PY 16/17F			PY 17/18F		
Committed Sales	**M MWH**	**$ M**	**$/MWH**	**M MWH**	**$ M**	**$/MWH**	**M MWH**	**$ M**	**$/MWH**	**M MWH**	**$ M**	**$/MWH**
ATSI	29	$1,695	$59	32	$1,810	$55	19	$1,050	$55	13	$730	$56
Rest of RTO	40	2,075	52	29	1,445	49	29	1,340	46	14	605	42
MAAC	10	630	65	4	295	67	3	165	65	1	45	61
EMAAC	2	160	74	1	60	74	<1	20	78	<1	10	77
MISO	5	250	46	3	150	47	2	80	51	1	35	52
Total Committed Sales	86	$4,810	$56	70	$3,760	$55	53	$2,655	$50	29	$1,425	$49

Numbers may not foot due to rounding

Beginning June 2016, FE Ohio GA rate is forecasted based on projected PTC

As of December 31, 2015

Committed Sales by Channel

Calendar Year	2014A			2015A			2016F			2017F		
Committed Sales	M MWH	$ M	$/MWH	M MWH	$ M	$/MWH	M MWH	$ M	$/MWH	M MWH	$ M	$/MWH
MM	7	$450	$67	4	$265	$68	2	$170	$69	1	$60	$73
MCI	4	225	64	2	120	65	1	65	62	0	35	61
LCI	40	2,135	53	22	1,150	53	13	690	54	5	295	54
GA	20	1,190	61	15	1,020	66	14	870	63	12	685	58
POLR	16	900	57	12	710	60	8	505	60	5	265	58
Structured	13	565	44	11	475	44	8	350	44	5	200	42
Wholesale	-	-	-	9	325	35	14	520	37	10	350	36
Total Committed Sales	99	$5,465	$55	75	$4,065	$55	61	$3,170	$52	38	$1,890	$50

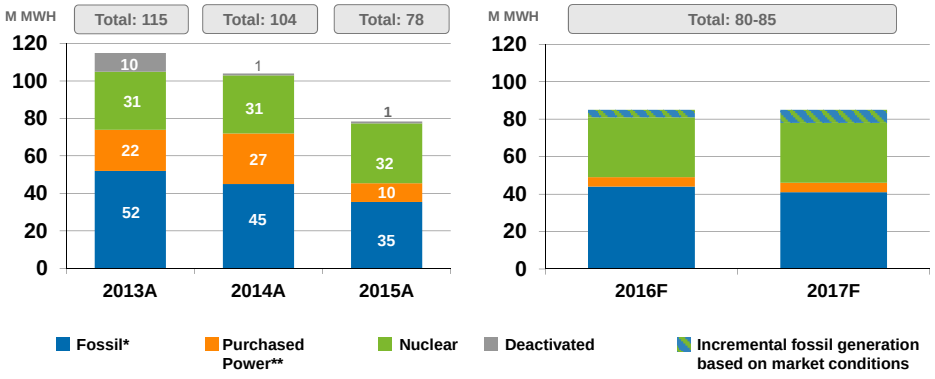
Planning Year	PY 14/15A (Jan-May Only)			PY 15/16F						PY 16/17F						PY 17/18F (June-Dec Only)		
	Jan - May 15			Jun - Dec 15			Jan - May 16			Jun - Dec 16			Jan - May 17			June-Dec 17		
Committed Sales	M MWH	$ M	$/MWH	M MWH	$ M	$/MWH	M MWH	$ M	$/MWH	M MWH	$ M	$/MWH	M MWH	$ M	$/MWH	M MWH	$ M	$/MWH
MM	2	$135	$68	2	$130	$68	1	$80	$69	1	$90	$70	<1	$25	$73	<1	$35	$73
MCI	1	65	65	1	55	64	<1	35	63	1	30	62	<1	30	61	<1	5	63
LCI	10	545	53	12	605	53	5	305	54	8	385	54	2	160	54	3	135	54
GA	7	420	62	8	600	69	6	405	68	8	465	59	5	300	56	7	385	59
POLR	7	400	57	5	310	64	4	250	62	4	255	59	4	190	59	1	75	57
Structured	5	210	44	6	265	44	4	185	46	4	165	42	2	100	42	3	100	41
Wholesale	-	-	-	9	325	35	6	210	39	8	310	35	5	150	36	5	200	36
Total Committed Sales	32	$1,775	$56	43	$2,290	$55	27	$1,470	$55	34	$1,700	$50	19	$955	$50	19	$935	$49

Numbers may not foot due to rounding

Beginning June 2016, FE Ohio GA rate is forecasted based on projected PTC

As of December 31, 2015

CES Generation Portfolio



Planned ongoing generation resources of 80 - 85M MWH annually

* Fossil includes Coal, Gas, and Hydro (excluding pumping); excludes deactivated units

** Purchased Power includes Renewables/OVEC and additional Bilateral/Spot Purchases

Competitive Fuel Sources

	2013A**	2014A**	2015A**	2016F	2017F
Fossil (M MWH)*	52	45	35	44	41
Nuclear (M MWH)	31	31	32	32	32
Total	83	76	67	76	73
Hedged Fossil				90%-95%	80%-85%
Hedged Nuclear				100%	100%
Fossil $/MWH	$26.69	$27.16	$26.74	~$25	~$26
Nuclear $/MWH	$7.79	$7.45	$6.97	~$7	~$7
Total Competitive Fleet $/MWH	$19.61	$19.07	$17.38	~$17	~$17

			2016F Total Fleet–Coal Sources		
	Plants	Units	NAPP	Western	Petcoke
Supercritical Units	Mansfield	1-3	✓		
	Pleasants	1-2	✓		
	Sammis	6-7	✓	✓	
Subcritical Units	Sammis	1-5	✓	✓	
	Bay Shore	1			✓

* Fossil includes Coal, Gas, and Hydro (excluding pumping)

** Excludes deactivated units

Reliability Pricing Model Capacity

Auction Results
Price Per Megawatt-Day

		RTO		MAAC	EMAAC
		ATSI	Rest of RTO		
2011 – 2012	FRR Integration Auction	$108.89	–	–	–
2012 – 2013	FRR Integration Auction	$20.46	–	–	–
2010-2011	BRA	N/A	$174.29	$174.29	$174.29
2011-2012	BRA	N/A	$110.00	$110.00	$110.00
2012-2013	BRA	N/A	$16.46	$133.37	$139.73
2013-2014	BRA	$27.73	$27.73	$226.15	$245.00
2014-2015	BRA	$125.99	$125.99	$136.50	$136.50
2015-2016	BRA	$357.00	$136.00	$167.46	$167.46
2016-2017	BRA	$114.23	$59.37	$119.13	$119.13
	Capacity Performance	$134.00	$134.00	$134.00	$134.00
2017-2018	BRA	$120.00	$120.00	$120.00	$120.00
	Capacity Performance	$151.50	$151.50	$151.50	$151.50
2018-2019	Base Capacity	$149.98	$149.98	$149.98	$210.63
	Capacity Performance	$164.77	$164.77	$164.77	$225.42

Future Capacity Auctions

	BRA	First Incremental	Second Incremental	Third Incremental
2016-2017				February 2016
2017-2018			July 2016	February 2017
2018-2019		September 2016	July 2017	February 2018
2019-2020	May 2016	September 2017	July 2018	February 2019

PJM Capacity Revenues

Net Competitive Capacity Position (MW)

	2015/2016*	2016 / 2017		2017 / 2018		2018 / 2019		
	Legacy Obligation	Legacy Obligation	CP Obligation	Legacy Obligation	CP Obligation	Base Generation	Capacity Performance	Uncommitted
ATSI	7,070	2,765	4,210	375	6,245	-	6,245	525
RTO	5,040	875	3,675	985	3,565	240	3,930	325
All Other Zones	135	135	–	150	–	35	20	35
TOTAL	12,245	3,775	7,885	1,510	9,810	275	10,195	885

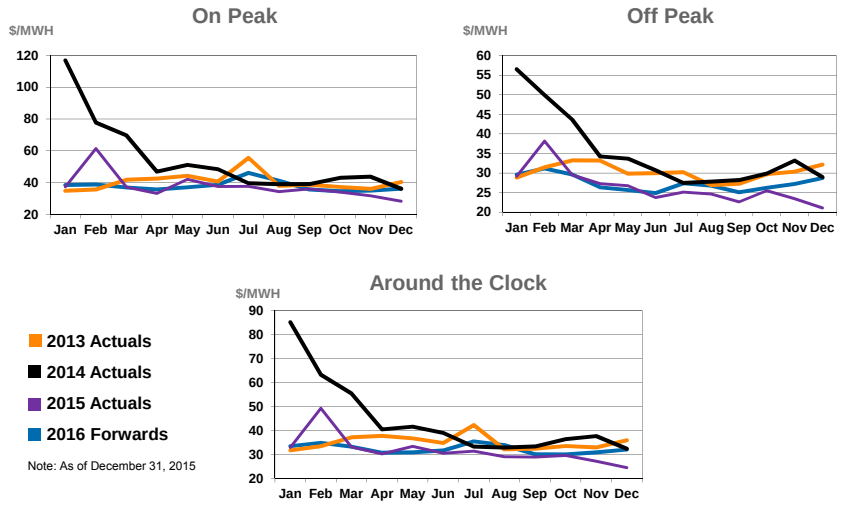
($M)	2015*	2016	2017	2018	2019 (through 5/31)
Capacity Revenues	$890	$815	$590	$620	$260

- **Legacy Obligation:**
  - The MW reflect net commitments from the PJM Base Residual Auction, incremental auctions and bilateral transactions related to the previous PJM capacity construct
  - Units that were sold/transferred are excluded
- **CP Obligation:**
  - The MW reflect results from the PJM Capacity Performance Transitional Auctions
- **Base Generation:**
  - The MW reflect results from the PJM Base Residual Auction with a Base Generation obligation under the new PJM capacity construct
- **Capacity Performance:**
  - The MW reflect results from the PJM Base Residual Auction with a Capacity Performance obligation
- **Uncommitted:**
  - Includes MW that have no capacity obligation and can be offered into future incremental auctions or used to mitigate potential non-performance charges
  - 2018/2019 885 MW of uncleared capacity represents "slice" of the system to hedge performance risk
- **Capacity Revenue:**
  - Includes revenues from the results of incremental/transitional capacity auctions, bilateral transactions and CTRs

*2015/2016 legacy obligations and 2015 revenues are BRA only

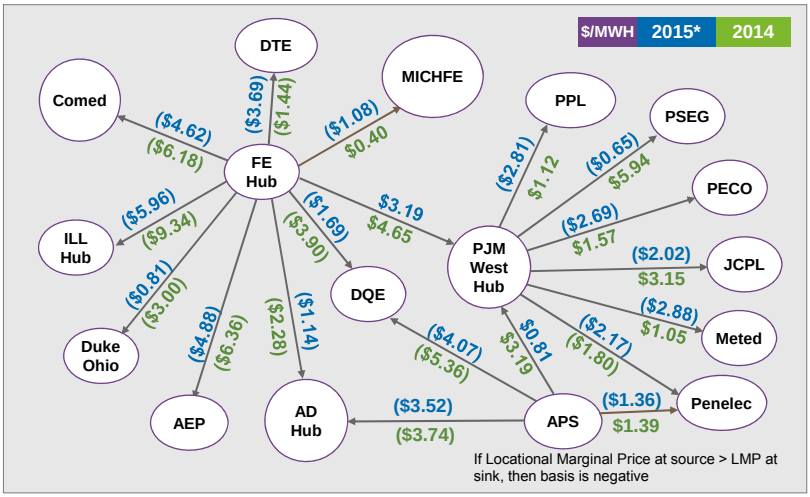
Power Price Trends

AD Hub



Note: As of December 31, 2015

Commodity Operations – **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**
- **Values shown are around-the-clock, day-ahead average basis values**

* As of December 31, 2015

Commodity Operations – **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	2013 ($/MWH)	2014 ($/MWH)	2015* ($/MWH)
FE Hub	Ill Hub	(5.96)	(9.34)	(5.96)
FE Hub	Comed	(4.15)	(6.18)	(4.62)
FE Hub	DTE	(3.30)	(1.44)	(3.69)
FE Hub	MichFE	(0.78)	0.40	(1.08)
FE Hub	PJM West Hub	1.88	4.65	3.19
FE Hub	DQE	(1.73)	(3.90)	(1.69)
FE Hub	AD Hub	(1.53)	(2.28)	(1.14)
FE Hub	AEP	(5.21)	(6.36)	(4.88)
FE Hub	Duke Ohio	(2.40)	(3.00)	(0.81)
APS	AD Hub	(1.73)	(3.74)	(3.52)
APS	DQE	(1.93)	(5.36)	(4.07)
APS	PJM West Hub	1.68	3.19	0.81
APS	Penelec	1.40	1.39	(1.36)
PJM West Hub	PPL	(0.41)	1.12	(2.81)
PJM West Hub	PSEG	3.52	5.94	(0.65)
PJM West Hub	PECO	(0.32)	1.57	(2.69)
PJM West Hub	JCP&L	1.39	3.15	(2.02)
PJM West Hub	Met-Ed	(0.14)	1.05	(2.88)
PJM West Hub	Penelec	(0.28)	(1.80)	(2.17)

*Values shown are around-the-clock, day-ahead average basis values

* As of December 31, 2015

Repositioning Our Competitive Generation Portfolio
2012 - 2015

Deactivations

Competitive	NDC MW	2012 M MWH	2012 Capacity Factor (%)	Deactivation Date
Eastlake 1-5	1,233	4.5	53	9/1/2012 (4-5); 4/15/2015 (1-3)
Bay Shore 2-4	495	0.4	12	9/1/2012
Armstrong	356	0.3	16	9/1/2012
Lake Shore 18	245	0.2	9	4/15/2015
Ashtabula 5	244	0.2	12	4/15/2015
R. Paul Smith 3-4	116	0.1	12	9/1/2012
Hatfield 1-3	1,710	9.7	64	10/9/2013
Mitchell 2-3	370	1.2	47	10/9/2013
Total	4,769	16.6		

Transfers and Sales

Competitive	NDC MW	Date
Harrison / Pleasants Asset Transfer	1,476	10/9/2013
Hydro Asset Sales	527	2/12/2014
Total	2,003	

Competitive Generation – **Plant Details**

Plant Name	PJM Zone	State	Fuel Type	Units	Net Maximum Capacity (MW)	Year Plant Commissioned
Bay Shore	ATSI	OH	Coal, Oil	2	153	1955
Davis-Besse	ATSI	OH	Nuclear	1	908	1977
Eastlake	ATSI	OH	Oil	1	29	1972
Mansfield	ATSI	PA	Coal	3	2,490	1976
Perry	ATSI	OH	Nuclear	1	1,268	1987
Sammis	ATSI	OH	Coal, Oil	8	2,223	1959
West Lorain	ATSI	OH	Natural Gas, Oil	2	545	1973
			Total ATSI Zone Generation		**7,616**	
Forked River*	EMAAC	NJ	Natural Gas		86	
			Total EMAAC Zone Generation		**86**	

*Long-term PPA

Competitive Generation – **Plant Details** (Continued)

Plant Name	PJM Zone	State	Fuel Type	Units	Net Maximum Capacity (MW)	Year Plant Commissioned
Hunlock	MAAC	PA	Natural Gas	1	45	2000
Wind Farms*	MAAC	Multiple	Wind	Multiple	277	
			Total MAAC Zone Generation		**322**	
Bath County	Rest of RTO	VA	Hydro	6	713**	1985
Beaver Valley	Rest of RTO	PA	Nuclear	2	1,872	1976
Buchanan	Rest of RTO	VA	Natural Gas	1	43	2002
Chambersburg	Rest of RTO	PA	Natural Gas	1	88	2001
Gans	Rest of RTO	PA	Natural Gas	1	88	2000
Maryland Solar*	Rest of RTO	MD	Solar	Multiple	20	
OVEC*	Rest of RTO	Multiple	Coal	Multiple	177***	
Pleasants	Rest of RTO	WV	Coal	2	1,300	1979
Springdale	Rest of RTO	PA	Natural Gas	5	638	1999
Wind Farms*	Rest of RTO	Multiple	Wind	Multiple	199	
			Total Rest of RTO Generation		**5,138**	
			Total Competitive Generation		**13,162**	

* Long-term PPA
** Represents AE Supply's entitlement
*** Represents FES' 4.85% and AE Supply's 3.01% entitlement

Fossil **Environmental Controls**

	Plant	NDC	NOx Controls					SO_2 Controls	Particulate		Cooling Towers
			SCR	SNCR	COS	LNB	OFA	Scrubbers[1]	Baghouse	Electro/Other[2]	
Supercritical	**Mansfield 1-3**	**2,490**	✓		✓	✓	✓	✓		✓	✓
	Pleasants 1-2	**1,300**	✓			✓		✓		✓	✓
	Sammis 6 & 7	**1,200**	✓	✓	✓	✓	✓	✓		✓	
	Sub-total	**4,990**									
Subcritical	**Sammis 1 - 4**	**720**		✓	✓	✓	✓	✓	✓		
	Sammis 5	**290**		✓	✓	✓	✓	✓		✓	
	Bay Shore 1 (CFB [3])	**136**				[3]		[3]	✓		
	Sub-total	**1,146**									

[1]Scrubbed coal units have Flue Gas Desulfurization (FGD – equipment to remove sulfur from flue gas after combustion)
[2]Particulate Controls can include Venturi Scrubber or Electrostatic Precipitator
[3]Circulating Fluidized Bed (CFB) Boiler is inherently low emitting for NOx and SO_2

In 2015, nearly 100% of the power the competitive portfolio generates was from low- or non-emitting sources, including nuclear, natural gas, scrubbed coal and renewable energy

Coal Combustion Residuals Impoundments

- **FE operates coal combustion residuals (CCR) impoundments and wastewater ponds in accordance with federal, state and local regulatory requirements**
  - Requirements address design, construction, material placement, structural inspections, environmental monitoring, and final closure of facilities
- **Majority of FE CCRs are handled as dry material**
  - Typically sites consist of geotextile liners and/or clay soil
  - Leachate and/or runoff is collected and treated
  - Wet CCR impoundments exist at Pleasants and Mansfield - Little Blue Run (LBR)
- **FE periodically removes CCR material from active wastewater ponds for placement in dry landfills**
  - All inactive CCR wastewater treatment ponds at retired plants have been stabilized and will be closed in accordance with state regulation
- **Closure permit issued by PA Department of Environmental Protection for LBR**
  - Site will stop receiving CCRs on December 31, 2016, and complete closure over a 12-year-period
  - A 30-year period of post closure monitoring will follow
  - Bonded closure cost is ~$170M
  - Alternative disposal sites for Mansfield under development, including Hatfield Ferry
- **Pleasants impoundment is estimated to reach full capacity no sooner than 2021**
  - Closure plan to be developed and submitted to WV Department of Environmental Protection 1-2 years prior to closure

MATS Overview

- **MATS**
  - Total cost estimate of $168M, of which $80M has been spent through December 31, 2015

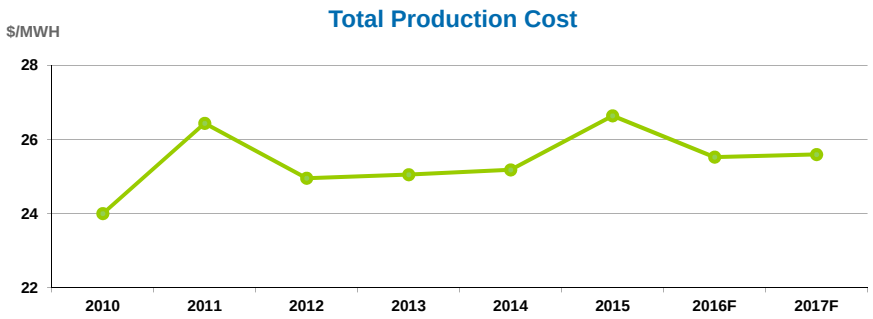
Plant	Technologies
Bay Shore 1*	Baghouse Fabric Filter changes, Mini ACI system, CEMS
Sammis 1-7*	Precip Controls, CEMS
Mansfield 1-3	WFGD Changes, SCR Changes, CEMS
Pleasants 1-2	Precip Changes, FGD Changes, SCR Catalyst, Duct Repairs, CEMS

*Nearly all spending for Bay Shore and Sammis has been completed through 2014

Nuclear **Key Events**

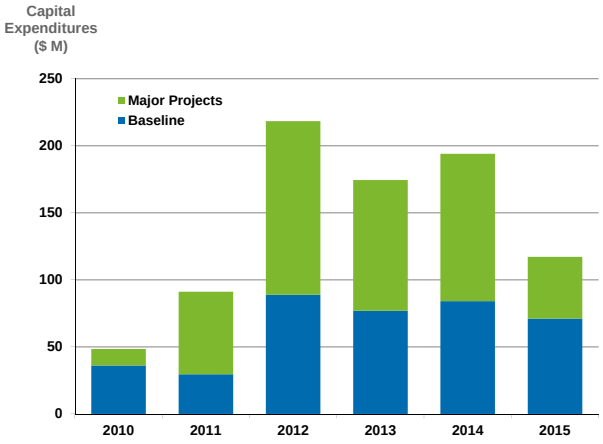
Key Events	Beaver Valley 1 (939 MW)	Beaver Valley 2 (933 MW)	Davis-Besse (908 MW)	Perry (1,268 MW)
License Expiration	2036	2047	2037	2026
2013	**Completed planned outage**	**Completed fuel pool rerack**	**Relicensing process** – NRC issued Safety Evaluation Report (SER) in license renewal process	**Completed planned outage** **Supplemental NRC inspection (95002) completed satisfactorily**
2014	**Implement dry fuel storage**	**Planned outage** – Refueling	**Completed planned outage** – Refueling – Steam generator replacement	
2015	**Planned outage** – Refueling	**Planned outage** – Refueling	**Obtained license renewal**	**Planned outage** – Refueling
2016	**Planned outage** – Refueling **Enter period of extended operation**		**Planned outage** – Refueling	
2017		**Planned outage** – Refueling	**Implement dry fuel storage** **Enter period of extended operation**	**Planned outage** – Refueling

Nuclear **Operating Costs**



FENOC	2010	2011	2012	2013	2014	2015	2016F	2017F
O&M ($/MWH)	$17	→	→	→	$18	$20	$19	$19
Fuel ($/MWH)	$7	→	→	→	$7	$7	$7	$7
Generation (M MWH)	30.9	29.8	31.8	30.9	31.0	31.9	32.0	31.6

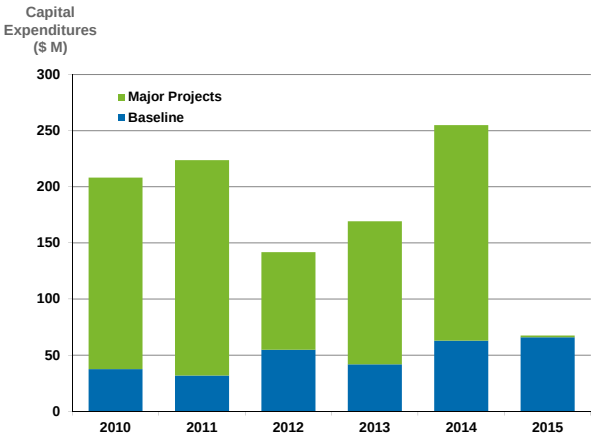
Beaver Valley



Major projects include:

- Steam Generator Replacement
- Low-Pressure Turbine Rotor Replacement
- Reactor Vessel Head Replacement

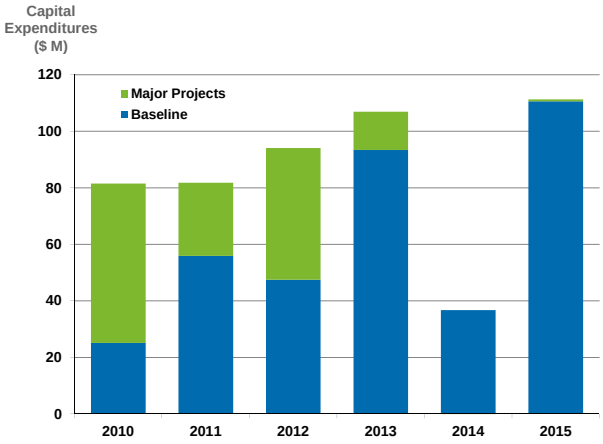
Davis-Besse



Major projects include:

- Reactor Vessel Head Replacement
- Steam Generator Replacement
- Alloy 600 Mitigation

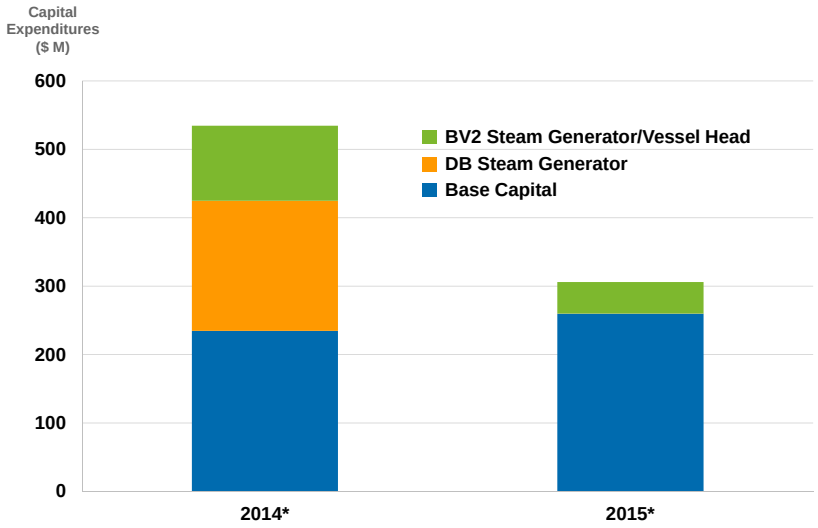
Perry



Major projects include:

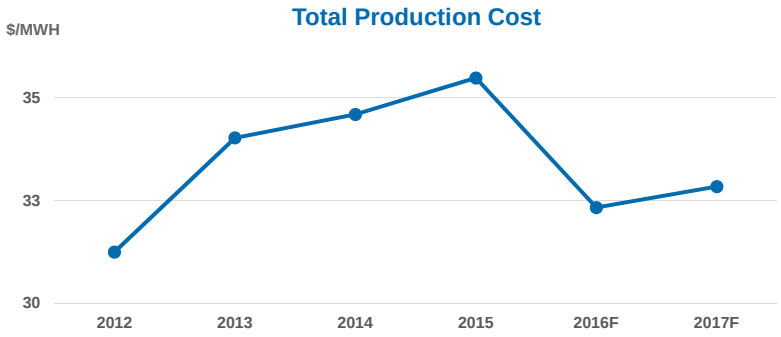
- Low-Pressure Turbine Rotor Replacement
- Main Generator Rewind

Nuclear **Fleet Capital**



*Includes $8M in 2014 and $3M in 2015 associated with the capital component of the Pension/OPEB mark-to-market adjustment

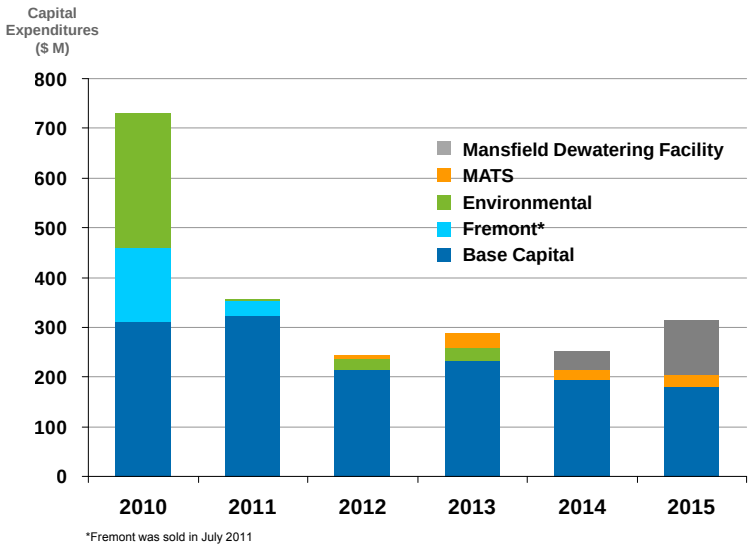
Fossil **Operating Costs**



Fossil	2012*	2013*	2014*	2015*	2016F	2017F
O&M ($/MWH)	$6	$6	$7	$8	$7	$7
Fuel ($/MWH)	$26	$28	$28	$27	$25	$26
Generation (M MWH)	64.7	61.1	45.4	36.2	43.7	40.7

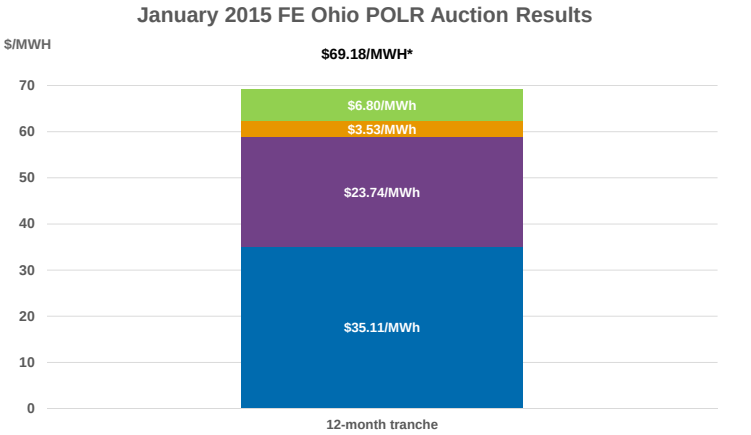
* Includes deactivated units

Fossil **Fleet Capital**



*Fremont was sold in July 2011

Illustration of POLR Components



The following components are estimated and for illustrative purposes only:

- **Energy:** Energy price at AD Hub for FE Ohio slice of system load shape
- **Capacity:** RPM Capacity expense for product
- **Delivery:** Contains all non-energy; non-capacity RTO expenses. In OH, Network Integration Transmission Service is excluded.
- **Risk Premium:** Contains margin and risk premiums associated with load shape and price volatility

*Represents the actual OH POLR Clearing Price

Competitive Operations
Net Income to Adjusted EBITDA* Reconciliation

($ M)	2015A	2016F
Net Income – GAAP	$89	$180 – $280
Special Items (after tax)*	171	20
Operating Earnings	$260	$200 - $300
Income Taxes	151	120 – 175
Interest Expense, Net	153	165 – 150
Depreciation	394	430 – 415
Amortization**	65	70 – 65
Investment Income	(74)	(35) – (55)
Adjusted EBITDA*	$949	$950 – $1,050

*Adjusted EBITDA represents GAAP net income adjusted for the special items listed on slide 134 and the addition of Income Taxes; Interest Expense, net; Depreciation, Amortization and Investment Income

** Amortization expense included in Other Operating Expenses on the Consolidated Statements of Income. Primarily relates to amortization of "FES customer contracts" intangible assets, as disclosed in Note 7 - Intangible Assets, and "Deferred costs on sale leaseback transaction, net", as reported on the Consolidated Statements of Cash Flows. Does not include nuclear fuel amortization of approximately $222M and $230M in 2015 and 2016, respectively.

Competitive Operations
Net Income to Commodity Margin* Reconciliation

($ M)	2015A	2016F
Net Income – GAAP	$89	$180 – $280
Special Items (after tax)*	171	20
Operating Earnings	$260	$200 - $300
Income Taxes	151	120 – 175
Interest Expense, Net	153	165 – 150
Depreciation	394	430 – 415
Amortization**	65	70 – 65
Investment Income	(74)	(35) – (55)
Other Revenue***	(205)	(170) – (180)
Other Operating Expenses****	1,256	1,255 – 1,175
General Taxes	138	130 - 120
Commodity Margin*	$2,138	$2,165

* Commodity margin primarily represents generation sales and capacity revenue less fuel, purchased power and other variable costs such as delivery and capacity expenses, excluding special items listed on slide 134

** Amortization expense included in Other Operating Expenses on the Consolidated Statements of Income. Primarily relates to amortization of "FES customer contracts" intangible assets, as disclosed in Note 7 - Intangible Assets, and "Deferred costs on sale leaseback transaction, net," as reported on the Consolidated Statements of Cash Flows. Does not include nuclear fuel amortization of approximately $222M and $230M in 2015 and 2016, respectively.

*** Other Revenue primarily reflects lease revenue on sale and leaseback transactions and other affiliated transactions. Amounts for 2015 are included in "Revenues - Unregulated Businesses" on the Consolidated Statements of Income.

**** Other Operating Expense primarily includes generation, retail and corporate support expenses. Amounts for 2015 are included in "Other operating expenses" on the Consolidated Statements of Income.

Competitive Operations – **Special Items**

($ M)	2015A	2016F
Pre-tax items		
Trust Securities Impairment	$90	$ –
Merger Accounting – Commodity Contracts	110	35
Non-Core Asset Sales/Impairments	31	–
Plant Closing Costs	22	–
Loss on Debt Redemptions	–	–
Regulatory Charges	1	–
Mark-to-Market Adjustments		
Pension/OPEB actuarial assumption	60	–
Other	(73)	–
Retail Repositioning Charges	31	–
Subtotal	$272	$35
Income Taxes	(101)	(15)
After Tax Effect – Special Items	$171	$20

Competitive Operations – **Long-Term Debt Schedules**

Company	Type	CUSIP	Interest Rate	Maturity	Amount Outstanding
FEGENCO	Pollution Control Note	677660UC4	Variable*	10/1/2018	$2,805,000
	Pollution Control Note	677525UZ8	Variable*	10/1/2018	$2,985,000
	Pollution Control Note	074876HE6	Variable*	10/1/2047	$46,300,000
	Pollution Control Note	708686DX5	Variable*	6/1/2028	$15,000,000
	Pollution Control Note	074876HK2	Variable*	6/1/2028	$25,000,000
	Pollution Control Note	677525VK0	3.75%**	12/1/2023	$234,520,000
	Pollution Control Note	708686EA4	3.75%**	12/1/2040	$43,000,000
	Pollution Control Note	677660UE0	2.25%**	8/1/2029	$6,450,000
	Pollution Control Note	677525VB0	2.25%**	8/1/2029	$100,000,000
	Pollution Control Note	074876HF3	2.15%**	3/1/2017	$28,525,000
	Pollution Control Note	074876HJ5	2.5%**	12/1/2041	$129,610,000
	Pollution Control Note	677525TF4	5.625%	6/1/2018	$141,260,000
	Pollution Control Note	708686DB3	2.55%**	11/1/2041	$26,000,000

* Subject to mandatory redemption upon expiration of associated letter of credit; may later be remarketed, subject to market and other conditions
** Currently a fixed rate subject to mandatory put prior to maturity; may later be remarketed, subject to market and other conditions
Note: FES' debt obligations are guaranteed by its subsidiaries, FEGENCO and FENUGENCO, and FES guarantees the debt obligations of FEGENCO and FENUGENCO

As of December 31, 2015

Competitive Operations – **Long-Term Debt Schedules**

Company	Type	CUSIP	Interest Rate	Maturity	Amount Outstanding
FEGENCO	Pollution Control Note	074876HL0	3.5%**	4/1/2041	$56,600,000
	Pollution Control Note	677525TK3	5.7%	8/1/2020	$177,000,000
	Pollution Control Note	677525VP9	3.1%**	3/1/2023	$50,000,000
	Pollution Control Note	677660UL4	3.0%	5/15/2019	$90,140,000
				FEGENCO Total	**$1,175,195,000**
FENUGENCO	Pollution Control Note	677525VR5	3.625%**	10/1/2033	$9,100,000
	Pollution Control Note	677660UM2	3.625%**	10/1/2033	$20,450,000
	Pollution Control Note	677660UN0	3.95%**	11/1/2032	$33,000,000
	Pollution Control Note	677525VS3	3.95%**	11/1/2032	$23,000,000
	Pollution Control Note	677660UJ9	4.0%**	12/1/2033	$135,550,000
	Pollution Control Note	677660UK6	4.0%**	6/1/2033	$46,500,000
	Pollution Control Note	677525VU8	3.125%**	7/1/2033	$8,000,000

** Currently a fixed rate subject to mandatory put prior to maturity; may later be remarketed, subject to market and other conditions
Note: FES' debt obligations are guaranteed by its subsidiaries, FEGENCO and FENUGENCO, and FES guarantees the debt obligations of FEGENCO and FENUGENCO

As of December 31, 2015

Competitive Operations – **Long-Term Debt Schedules**

Company	Type	CUSIP	Interest Rate	Maturity	Amount Outstanding
FENUGENCO	Pollution Control Note	677660UQ3	3.75%**	7/1/2033	$99,100,000
	Pollution Control Note	677525VT1	3.125%**	1/1/2034	$7,200,000
	Pollution Control Note	677660UP5	4.0%**	1/1/2034	$82,800,000
	Pollution Control Note	074876HN6	4.0%**	1/1/2035	$72,650,000
	Pollution Control Note	677660TP7	5.875%**	6/1/2033	$107,500,000
	Pollution Control Note	677525TE7	5.75%**	6/1/2033	$62,500,000
	Pollution Control Note	677660UF7	2.2%**	6/1/2033	$54,600,000
	Pollution Control Note	677525VQ7	3.625%**	12/1/2033	$15,500,000
	Pollution Control Note	074876HG1	2.2%**	1/1/2035	$60,000,000
	Pollution Control Note	074876HH9	2.7%**	4/1/2035	$98,900,000
	Pollution Control Note	074876HM8	3.5%**	12/1/2035	$163,965,000
	Pollution Control Note	677525VV6	3.75%**	6/1/2033	$26,000,000

** Currently a fixed rate subject to mandatory put prior to maturity; may later be remarketed, subject to market and other conditions
Note: FES' debt obligations are guaranteed by its subsidiaries, FEGENCO and FENUGENCO, and FES guarantees the debt obligations of FEGENCO and FENUGENCO

As of December 31, 2015

Competitive Operations – **Long-Term Debt Schedules**

Company	Type	CUSIP	Interest Rate	Maturity	Amount Outstanding
FENUGENCO	Collateralized Lease Bonds	N/A	9.12%	5/30/2016	$886,000
	Collateralized Lease Bonds	N/A	8.83%	5/30/2016	$131,000
	Collateralized Lease Bonds	N/A	9.0%	6/1/2017	$9,612,000
	Collateralized Lease Bonds	N/A	12.0%	6/1/2017	$264,604
	Collateralized Lease Bonds	N/A	8.89%	6/1/2017	$15,804,000
	Collateralized Lease Bonds	N/A	8.68%	6/1/2017	$1,805,000
				FENUGENCO Total	**$1,154,817,604**

As of December 31, 2015

Competitive Operations – **Long-Term Debt Schedules**

Company	Type	CUSIP	Interest Rate	Maturity	Amount Outstanding
FES	Senior Note	33766JAD5	6.05%	8/15/2021	$332,305,000
	Senior Note	33766JAF0	6.8%	8/15/2039	$363,281,000
				FES Total	**$695,586,000**
AE Supply	Pollution Control Note	41524CAU8	5.5%	10/15/2037	$73,500,000*
	Pollution Control Note	728896CF6	5.25%	10/15/2037	$142,000,000
	Senior Note	017363AK8	5.75%	10/15/2019	$155,532,000
	Senior Note	017363AM4	6.75%	10/15/2039	$150,034,000
				AE Supply Total	**$521,066,000**
AGC	Senior Note	Private Placement	5.06%	7/15/2021	$100,000,000
				AGC Total	**$100,000,000**

*Mon Power assumed primary liability for this Note in connection with the Harrison transfer
Note: FES' debt obligations are guaranteed by its subsidiaries, FEGENCO and FENUGENCO, and FES guarantees the debt obligations of FEGENCO and FENUGENCO

As of December 31, 2015

Financial



Financial – **Liquidity**

Available Liquidity

($ Millions)

	CES	FET	FEU	FE Corp.	FE Consolidated
Revolving Credit Facility	**$ 1,500**	**$ 1,000**	**$ 3,500**		**$ 6,000**
Short-term borrowings	–	–	–	(1,899)	**(1,899)**
Letters of Credit (LOC)	(58)	–	–	(6)	**(64)**
Total Utilization	**$ (58)**	**$ –**	**$ (1,905)**		**$ (1,963)**
Available External Credit Capacity	**$ 1,442**	**$ 1,000**	**$ 1,595**		**$ 4,037**
Cash & Investments	–	58	–	5	**63**
Available Liquidity	**$ 1,442**	**$ 1,058**	**$ 1,600**		**$ 4,100**

As of January 31, 2016

Financial – **Parental Guarantees**

	FirstEnergy Corp. Parent					
	Competitive		Regulated		Corp/Other	
	$M	Expiration	$M	Expiration	$M	Expiration
Energy-Related Contracts	$26	2020-2030	–	–	–	–
Fuel-Related Contracts	–	–	–	–	–	–
Retail Contracts	$7	2017	–	–	–	–
Benefit-Related Programs	$139	–	$175	–	$219	–
Other	$10	2016	$4	2030	$3	–
Total FE Guarantee on behalf of subsidiaries	**$182**		**$179**		**$222**	

As of December 31, 2015

Financial – **Collateral Dependent on Investment Grade Rating**

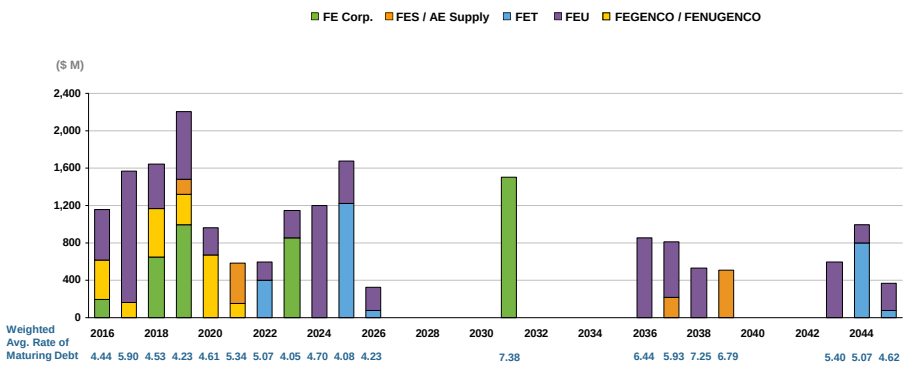
($ M)

Collateral Provisions As of December 31, 2015	FES/AE Supply (Tied to FE Corp. Rating)	FES/AE Supply (Tied to FES Rating)	Utilities	Total
Split Rating (One Rating Agency below investment grade)	**$25***	**$179**	**$41**	**$245**
Non-Investment Grade Ratings (All Rating Agencies at or below BB+/Ba1)	**$25**	**$212**	**$41**	**$278**
Total Exposure from Contractual Obligations	**$25**	**$354**	**$41**	**$420**

*Exists due to FE Corp's current Unsecured Rating of BB+ by Standard & Poors

Note: Surety Bonds (not tied to a rating) of $283M and $90M exist at FES and Utilities, respectively. Surety Bonds impact assumes maximum contractual obligations (typical obligations require 30 days to cure).

Consolidated Long-Term Debt Maturities



Weighted Avg. Rate of Maturing Debt	2016	2018	2020	2022	2024	2026	2028	2030	2032	2034	2036	2038	2040	2042	2044
	4.44	5.90	4.53	4.23	4.61	5.34	5.07	4.05	4.70	4.08	4.23		7.38		6.44	5.93	7.25	6.79		5.40	5.07	4.62

Excludes variable rate tax-exempt debt and securitization bonds

As of December 31, 2015

Outstanding Debt by Legal Entity

($ M)

Hold Co. At 12/31/2015	FE Hold Co.
Short-term Debt	1,700
Long-term Debt	4,200
Securitization Bonds	-
Debt Subtotal	**5,900**
Discounts/Premiums	12
Purchase Accounting	-
Capital Leases	-
Total Balance Sheet Debt	**5,912**

Utilities At 12/31/2015	Ohio Edison	Cleveland Electric	Toledo Edison	Penn Power	Metropolitan Edison	Pennsylvania Electric	Jersey Central	Mon Power	Potomac Edison	West Penn Power
Short-term Debt	-	190	-	43	54	-	21	196	80	5
Long-term Debt	650	1,330	350	104	850	1,125	2,250	1,224	445	670
Securitization Bonds	138	183	41	-	-	-	128	308	103	-
Debt Subtotal	**788**	**1,703**	**391**	**147**	**904**	**1,125**	**2,399**	**1,728**	**628**	**675**
Discounts/Premiums	(9)	(2)	(0)	-	(1)	(2)	(7)	(1)	-	-
Purchase Accounting	-	-	-	-	-	-	-	17	6	11
Capital Leases	21	18	10	4	17	25	-	6	5	9
Total Balance Sheet Debt	**801**	**1,719**	**400**	**151**	**920**	**1,149**	**2,392**	**1,749**	**640**	**694**

Transmission At 12/31/2015	FET Hold Co.	ATSI	TrAIL
Short-term Debt	-	-	-
Long-term Debt	1,000	950	625
Securitization Bonds	-	-	-
Debt Subtotal	**1,000**	**950**	**625**
Discounts/Premiums	(2)	(4)	(0)
Purchase Accounting	-	-	-
Capital Leases	-	-	-
Total Balance Sheet Debt	**998**	**946**	**625**

Competitive Energy Services At 12/31/2015	FES Hold Co.	FE Generation	FE Nuclear Generation	Allegheny Energy Supply	Allegheny Generating
Short-term Debt	-	-	-	-	48
Long-term Debt	696	1,175	1,155	521	100
Securitization Bonds	-	-	-	-	-
Debt Subtotal	**696**	**1,175**	**1,155**	**521**	**148**
Discounts/Premiums	(1)	-	-	-	-
Purchase Accounting	-	-	-	(28)	-
Capital Leases	-	12	-	0	-
Total Balance Sheet Debt	**695**	**1,187**	**1,155**	**493**	**148**

Numbers may not foot due to rounding

Financial – **Debt Targets**

Segment	FirstEnergy Utilities (FEU)	FirstEnergy Transmission (FET)		Competitive Energy Services (CES)
		HoldCo	OpCo	
Target Adjusted Debt Ratios*	**55%**	**65%**	**40%**	**≤40%**

FEU = OE, PP, CEI, TE, JCP&L, ME, PN, MP, PE, WPP

FET = FET, ATSI, TrAILCo

CES = FES, AE Supply

Outstanding debt at FE Corp is not reflected above

*Calculated per rating agency view shown on slide 158

As of December 31, 2015

Financial – **FirstEnergy Corp. Long-Term Debt Schedules**

Company	Type	CUSIP	Interest Rate	Maturity	Amount Outstanding
FirstEnergy Corp.	Term Loan	N/A	Variable	5/29/2020	$200,000,000
	Term Loan	N/A	Variable	3/31/2019	$1,000,000,000
	Unsecured Notes	337932AE7	2.75%	3/15/2018	$650,000,000
	Unsecured Notes	337932AF4	4.25%	3/15/2023	$850,000,000
	Unsecured Notes	337932AC1	7.375%	11/15/2031	$1,500,000,000
				FirstEnergy Corp. Total	**$4,200,000,000**

As of December 31, 2015

Financial – **Credit Ratings**

As of 12/31/2015	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	BB+	-	-	-	BB+	Baa3	BB+	stable	stable	positive
FirstEnergy Solutions	BBB-	Baa3	-	BBB-	-	-	BBB-	Baa3	-	stable	stable	-
Allegheny Energy Supply	BBB-	Baa3	-	BBB-	-	-	BBB-	Baa3	-	stable	stable	-
Allegheny Generating Co.	BBB-	Baa3	-	-	-	-	BBB-	Baa3	-	stable	stable	-
American Transmission Systems Inc.	BBB-	Baa2	-	-	-	-	BBB-	Baa2	-	stable	stable	-
Cleveland Electric Illuminating	BBB-	Baa3	-	BBB+	Baa1	-	BBB-	Baa3	-	stable	stable	-
FirstEnergy Transmission	BBB-	Baa3	-	-	-	-	BB+	Baa3	-	stable	stable	-
Jersey Central Power & Light	BBB-	Baa2	-	-	-	-	BBB-	Baa2	-	stable	stable	-
Metropolitan Edison	BBB-	Baa1	-	-	-	-	BBB-	Baa1	-	stable	stable	-
Monongahela Power	BBB-	Baa2	-	BBB+	A3	-	-	-	-	stable	stable	-
Ohio Edison Co.	BBB-	Baa1	-	BBB+	A2	-	BBB-	Baa1	-	stable	stable	-
Pennsylvania Electric Co.	BBB-	Baa2	-	-	-	-	BBB-	Baa2	-	stable	stable	-
Pennsylvania Power Co.	BBB-	Baa1	-	-	A2	-	-	-	-	stable	stable	-
Potomac Edison Co.	BBB-	Baa2	-	BBB+	A3	-	-	-	-	stable	stable	-
Toledo Edison Co.	BBB-	Baa3	-	BBB	Baa1	-	-	-	-	stable	stable	-
Trans-Allegheny Interstate Line Co.	BBB-	A3	-	-	-	-	BBB-	A3	-	stable	stable	-
West Penn Power Co.	BBB-	Baa1	-	BBB+	A2	-	-	-	-	stable	stable	-

On December 8, 2015 Fitch Ratings affirmed FirstEnergy Corp's BB+ rating and revised its rating outlook to "positive" from "stable".

On December 10, 2015 Moody's affirmed the Baa3 issuer and senior unsecured ratings at FE Corp, FES, and AES. The outlook on all three companies is "stable".

Financial – 2015 Financial Accomplishments

- **Focus on FE Transmission growth**
  - Issued long-term debt to support transmission reliability program
    - $150M at ATSI
    - $75M at TrAIL
- **Focus on strengthening FES balance sheet**
  - Refinanced certain debt at FEGENCO and FENUGENCO
- **Focus on strengthening FE Utilities balance sheets**
  - Refinanced maturing debt at certain utilities
  - Reduced short-term borrowings through refinancings
- **Issued equity of ~$113M in 2015 through stock investment/employee benefit plans**
- **Rating Agency actions**
  - Moody's changed JCP&L's rating outlook to stable from negative
  - Moody's affirmed the Baa3 issuer and senior unsecured ratings at FE, FES, and AES
  - Fitch Ratings changed FE Corp's outlook to positive from stable

As of December 31, 2015

Financial – **Credit Providers**

32 financial institutions provide ~$7.6B aggregate credit commitment

($ M)	
Revolving Credit Facilities	**$6,000**
Term Loans	**1,200**
SUB-TOTAL	**$7,200**
Letters of Credit (LOC)	**183**
Vehicle Leases	**185**
Sale Leaseback LOC	**10**
TOTAL	**$7,578**

Bank of America	Goldman Sachs
Bank of New York Mellon	Huntington National Bank
Bank of Nova Scotia	JP Morgan Chase
Barclays Bank	Keybank
BBVA	Mizuho
BNP Paribas	Morgan Stanley
CIBC	National Cooperative Services
Citibank	PNC
Citizens Bank	Regions Bank
CoBank	Royal Bank of Canada
Credit Agricole	Santander
Credit Suisse	Sumitomo Mitsui
Fifth Third Bank	TD Bank
FirstMerit	Union Bank/Bank of Tokyo Mitsubishi
First National Bank	US Bank
G.E. Capital	Wells Fargo

As of December 31, 2015

Financial – **Operating Earnings**[1] by Segment

Operating EPS[1] – Basic	2015
Regulated Distribution	$1.82
Regulated Transmission	0.71
Sub-total	$2.53
Competitive Energy Services	0.62
Corporate / Other	(0.44)
FirstEnergy Consolidated	$2.71

[1]See GAAP to Operating earnings reconciliation on slide 152

Financial – **2015 GAAP** to **Operating Earnings**[1] **Reconciliation**

(In $M, except per share amounts)	FirstEnergy Consolidated 2015	Regulated Distribution 2015	Regulated Transmission 2015	Competitive Energy Services 2015	Corporate/ Other 2015
Net Income (Loss) – GAAP	$578	$618	$298	$89	($427)
Basic EPS (average shares outstanding 422M)	$1.37	$1.46	$0.71	$0.21	($1.01)
Excluding Special Items[2]:					
Mark-to-market Adjustments					
Pension/OPEB actuarial assumptions	0.35	0.26	–	0.09	–
Other	(0.11)	–	–	(0.11)	–
Merger Accounting – Commodity Contracts	0.16	–	–	0.16	–
Regulatory Charges	0.07	0.07	–	–	–
Retail Repositioning Charges	0.05	–	–	0.05	–
Impact of Non-core Asset Sales/Impairments	0.63	0.01	–	0.05	0.57
Trust Securities Impairments	0.15	0.02	–	0.13	–
Plant Deactivation Costs	0.04	–	–	0.04	–
Total Special Items[2]	$1.34	$0.36	–	$0.41	$0.57
Basic EPS – Operating (Non-GAAP) (average shares outstanding 422M)	$2.71	$1.82	$0.71	$0.62	($0.44)

[1]Operating earnings exclude special items as described in the reconciliation table above and is a non-GAAP financial measure
[2]Per share amounts for the special items above are based on the after tax effect of each item divided by the weighted average shares outstanding for the period

Financial – **2015 Capital Expenditures**

Capital Expenditures ($ M)	Regulated Distribution	Regulated Transmission	CES[1]	Corporate/ Other	FirstEnergy Consolidated[2]
Baseline Capital	$810	$123	$445	$114	$1,492
Formula Rate Recoverable	397	827	–	–	1,224
Major Projects					
Generation Projects	–	–	156	–	156
MATS	44	–	25	–	69
JCP&L LITE	–	36	–	–	36
Storms	39	–	–	–	39
Total	$1,290	$986	$626	$114	$3,016

[1] Excludes nuclear fuel
[2] Total includes $127M associated with the capital component of the Pension and OPEB mark-to-market adjustment

Financial – **Funds** from **Operations Reconciliation**

FirstEnergy Consolidated ($ M)	**2015**
Net Income – GAAP	**$578**
Depreciation & Amortization (nuclear fuel, regulatory assets, customer intangibles)	1,836
Investment Impairment, including equity method investments	464
Pension and OPEB Mark-to-Market Adjustment	242
Deferred Taxes and ITC	284
Deferred Purchased Power and Other Costs	(105)
Asset Removal Costs Charged to Income	55
Other	63
Funds from Operations (FFO) (1)	**$3,417**

(1) Net cash provided from operating activities, in Consolidated Statement of Cash Flows, excluding pension trust contributions of $143M, change in current assets and liabilities of ($159M) and including other FFO adjustments of ($14M)

2015 Free Cash Flow

($ M)	**FirstEnergy Consolidated**
Funds From Operations (FFO)[1]	**$3,417**
Capital Expenditures[2]	(2,889)
Nuclear Fuel	(190)
Cash Before Other Items	**$338**
Pension Contribution	(143)
Collateral	140
Working Capital/Other	(93)
Cash Before Dividends and Equity	**$242**
Dividends @ $1.44/share	(607)
Equity (SIP and other employee benefit plans)	113
Free Cash Flow [3]	**($252)**

[1] Non-GAAP measure; See GAAP to FFO reconciliation on slide 154.
[2] Excludes capital component of Pension/OPEB mark-to-market adjustment
[3] Excludes cash items related to financing activity

Cash Flow Improvement Project

Improvement Examples ($ M)	2015		2016		2017	
	Competitive	Non-Competitive	Competitive	Non-Competitive	Competitive	Non-Competitive
Operating and Maintenance Expenses • Implement selective hiring program • Reduction in shared service OTL • Customer Service opportunities • Reduced contractor and consulting spend • Reduced dues and fees • Reduction in corporate aircraft	$12.6(1)	$1.0	$28.6(1)	$20.4	$62.9	$22.2
Fossil Fuel • Reduction in fossil fuel related spend	20.0(1)	-	54.0(1)	-	77.0(1)	-
Capital • Lower spend at generating units • Reduction in facility spend	5.1(2)	2.5(2)	19.9	5.8	35.8	16.2
Other Balance Sheet • Reduction in discretionary uranium purchases • Sale of real estate	16.8(3)	-	18.8	7.5	23.9	2.0
Total	54.5	3.5	121.3	33.7	199.6	40.4
Total Free Cash Flow Improvement	**$58**		**$155**		**$240**	
Total After Tax Earnings Impact(4)	**$0.05**		**$0.15**		**$0.24**	

2015 – 2017 Total Free Cash Flow Improvement: $453M(5)

CFIP results announced July 30, 2015

(1) Included in 2015 and 2016 Adjusted EBITDA on slides 103-105 and on slides 110, 124, and 129
(2) Included on slides 128, 130, and 153
(3) Nuclear fuel component included on slides 153 and 155
(4) Assumes an effective tax rate of approximately 37% to 38% for each year
(5) ~4% of the total comes from the Regulated Distribution segment

Financial – Qualified Pension Status Overview

- **Pension Status is Open**
  - The plan design was changed to a Cash Balance formula for new hires beginning 1/1/14
    - Employees hired before 1/1/14 are covered under a Final Average Pay formula
- **Projected Benefit Obligation (PBO) funded status 61% as of 12/31/15**
  - Liability = $8,704M
  - Assets = $5,338M
  - Minimum funding requirements
    - 2016 = $381M
  - Funding requirements based on IRS funding calculations that are updated annually
- **Mark-to-Market (MTM) Accounting**
  - The pension uses mark to market accounting, meaning any change from the assumptions at the beginning of the year are realized at the end of the year.
  - Some key assumptions for 2016 include:
    - Expected Return on Assets (7.50%)
    - Discount Rate (4.50%)
    - Actuarial changes (changes in participant demographics)
  - MTM charges are reflected in GAAP earnings
- **Operating Earnings – Pension/OPEB**
  - Service Cost: The cost of benefits for operating the plan that year
  - Finance Cost: Interest Expense netted with Expected Return on Assets
  - Net periodic benefit cost of approximately $100M annually
- **2016 Service Cost Split by Segment (includes service company allocations)**
  - FEU: 53%
  - CES: 47%
- **Regulated Utility Recovery**
  - PA: Based on historical contributions of the last 10 years
  - OH: Service Cost included in 2008 test year
  - MD: GAAP Expense
  - WV: GAAP Expense (Last rate case was settled, but included GAAP Expense with modified MTM adjustments)
  - NJ: GAAP Expense (Last rate case excluded the MTM charge and used a modified calculation)

Financial – **Credit Metrics Calculations**

FFO Calculation
Net Income
Adjustments for non-cash items:
Depreciation & Amortization (nuclear fuel, regulatory assets, customer intangibles)
Investment Impairment, including equity method investments
Pension and OPEB Mark-to-Market Adjustment
Deferred Taxes and ITC
Deferred Purchased Power and Other Costs
Asset Removal Costs Charged to Income
Other
= Funds from Operations (FFO)

FFO Interest Coverage

$$= \frac{\text{FFO + Adjusted Interest}}{\text{Adjusted Interest}}$$

Adjusted Interest:
+ Interest Expense (before AFUDC)
+ Interest portion of leases
– Securitization bond interest expense

= Adjusted Interest

Debt / Capitalization Ratio	
Rating Agency View	*Covenant View*
Debt: Long-term debt + Short-term borrowings + Operating lease debt equivalent* + Post-retirement benefit obligations** + Other debt – Securitization debt	Debt: Long-term debt + Short-term borrowings – Securitization debt + Guarantees of Indebtedness + Reimbursement Obligations
= Adjusted Debt	= Adjusted Debt
Capitalization: + Adjusted debt + Total equity	Capitalization: + Adjusted Debt + Total Equity – Accumulated OCI + Non-cash charges***
= Adjusted Capitalization	= Adjusted Capitalization

FFO-to-Debt Ratio

$$= \frac{\text{FFO}}{\text{Adjusted Debt}}$$

Adjusted debt:
+ Short-term borrowings
+ Long-term debt
+ Operating lease debt equivalent*
+ Post-retirement benefit obligations**
+ Other debt
– Securitization debt

= Adjusted Debt

* Net Present Value of future lease payments using discount rate of 7%
** After-tax unfunded Pension/OPEB obligation
*** Includes historical and forward-looking non-cash charges

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