

# ADVANCING TOWARDS A CLEAN ENERGY FUTURE

55th EEI Financial Conference

November 9-10, 2020



# “Safe Harbor” Statement Under the Private Securities Litigation Reform Act of 1995

This presentation contains forward-looking statements within the meaning of Section 21E of the Securities Exchange Act of 1934. Although AEP and each of its Registrant Subsidiaries believe that their expectations are based on reasonable assumptions, any such statements may be influenced by factors that could cause actual outcomes and results to be materially different from those projected. Among the factors that could cause actual results to differ materially from those in the forward-looking statements are: changes in economic conditions, electric market demand and demographic patterns in AEP service territories, The impact of pandemics, including COVID-19, and any associated disruption of AEP’s business operations due to impacts on economic or market conditions, electricity usage, employees, customers, service providers, vendors and suppliers, inflationary or deflationary interest rate trends, volatility in the financial markets, particularly developments affecting the availability or cost of capital to finance new capital projects and refinance existing debt, the availability and cost of funds to finance working capital and capital needs, particularly during periods when the time lag between incurring costs and recovery is long and the costs are material, decreased demand for electricity, weather conditions, including storms and drought conditions, and the ability to recover significant storm restoration costs, the cost of fuel and its transportation, the creditworthiness and performance of fuel suppliers and transporters and the cost of storing and disposing of used fuel, including coal ash and spent nuclear fuel, the availability of fuel and necessary generation capacity and performance of generation plants, the ability to recover fuel and other energy costs through regulated or competitive electric rates, the ability to build or acquire renewable generation, transmission lines and facilities (including the ability to obtain any necessary regulatory approvals and permits) when needed at acceptable prices and terms and to recover those costs, new legislation, litigation and government regulation, including oversight of nuclear generation, energy commodity trading and new or heightened requirements for reduced emissions of sulfur, nitrogen, mercury, carbon, soot or particulate matter and other substances that could impact the continued operation, cost recovery and/or profitability of generation plants and related assets, evolving public perception of the risks associated with fuels used before, during and after the generation of electricity, including coal ash and nuclear fuel, timing and resolution of pending and future rate cases, negotiations and other regulatory decisions, including rate or other recovery of new investments in generation, distribution and transmission service and environmental compliance, resolution of litigation, the ability to constrain operation and maintenance costs, prices and demand for power generated and sold at wholesale, changes in technology, particularly with respect to energy storage and new, developing, alternative or distributed sources of generation, the ability to recover through rates any remaining unrecovered investment in generation units that may be retired before the end of their previously projected useful lives, volatility and changes in markets for coal and other energy-related commodities, particularly changes in the price of natural gas, changes in utility regulation and the allocation of costs within regional transmission organizations, including ERCOT, PJM and SPP, changes in the creditworthiness of the counterparties with contractual arrangements, including participants in the energy trading market, actions of rating agencies, including changes in the ratings of debt, the impact of volatility in the capital markets on the value of the investments held by the pension, other postretirement benefit plans, captive insurance entity and nuclear decommissioning trust and the impact of such volatility on future funding requirements, accounting standards periodically issued by accounting standard-setting bodies, and other risks and unforeseen events, including wars, the effects of terrorism (including increased security costs), embargoes, naturally occurring and human-caused fires, cyber security threats and other catastrophic events, the ability to attract and retain requisite work force and key personnel.

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# The Premier Regulated Energy Company

16,900 EMPLOYEES

24GW OWNED GENERATION

5.5M CUSTOMERS, 11 STATES

\$79B TOTAL ASSETS

40,000 TRANSMISSION MILES

221,000 DISTRIBUTION MILES

\$47B RATE BASE

\$45B CURRENT MARKET CAPITALIZATION

Statistics as of October 1, 2020 except for rate base as of December 31, 2019 and market capitalization as of November 4, 2020

# AEP Leading the Way Forward

**Confidence in  
Steady and  
Predictable  
Earnings  
Growth Rate  
of 5%-7%**

**Commitment  
to Growing  
Dividend  
Consistent  
with Earnings**

**Well  
Positioned as  
a Sustainable  
Regulated  
Business**

**Compelling  
Portfolio of  
Premium  
Investment  
Opportunities**

# AEP's Strategic Vision and Execution

## EXECUTE STRATEGY

## TOP PRIORITIES

**Promote clean energy transformation**

- Invest in regulated and contracted renewables
- Optimize the generation fleet

**Enable growth and prosperity for our communities**

- Grow top line revenue
- Champion economic development
- Be good neighbors

**Innovate for the benefit of our customers**

- Improve customer experience through use of technology and business innovation
- Modernize regulatory mechanisms to support customer expectations

**Build a modern, secure and resilient grid**

- Deploy technologies that enhance grid safety, security and value
- Invest in leveraging energy infrastructure

**Drive operational excellence**

- Achieve Zero Harm
- Drive relentless O&M optimization
- Implement automation, digitization and process improvements
- Be a great place to work

# EEI KEY THEMES

Pure Play Electric Utility with Significant Renewables Upside

- 5%-7% Earnings Growth Rate and 2021 Range
- Proven Track Record of TSR and EPS Performance
- Strong Dividend Growth
- O&M Optimization
- ESG Focus and Transition Towards a Clean Energy Future



# Strong Return Proposition for Investors

## TOTAL SHAREHOLDER RETURN

**8% - 10%**

DIVIDEND YIELD  
3%

+

EPS GROWTH  
5% - 7%

## 2021 OPERATING EARNINGS GUIDANCE RANGE

**\$4.51 - \$4.71**

2020 EPS  
MIDPOINT  
\$4.35

+

EPS GROWTH  
6%

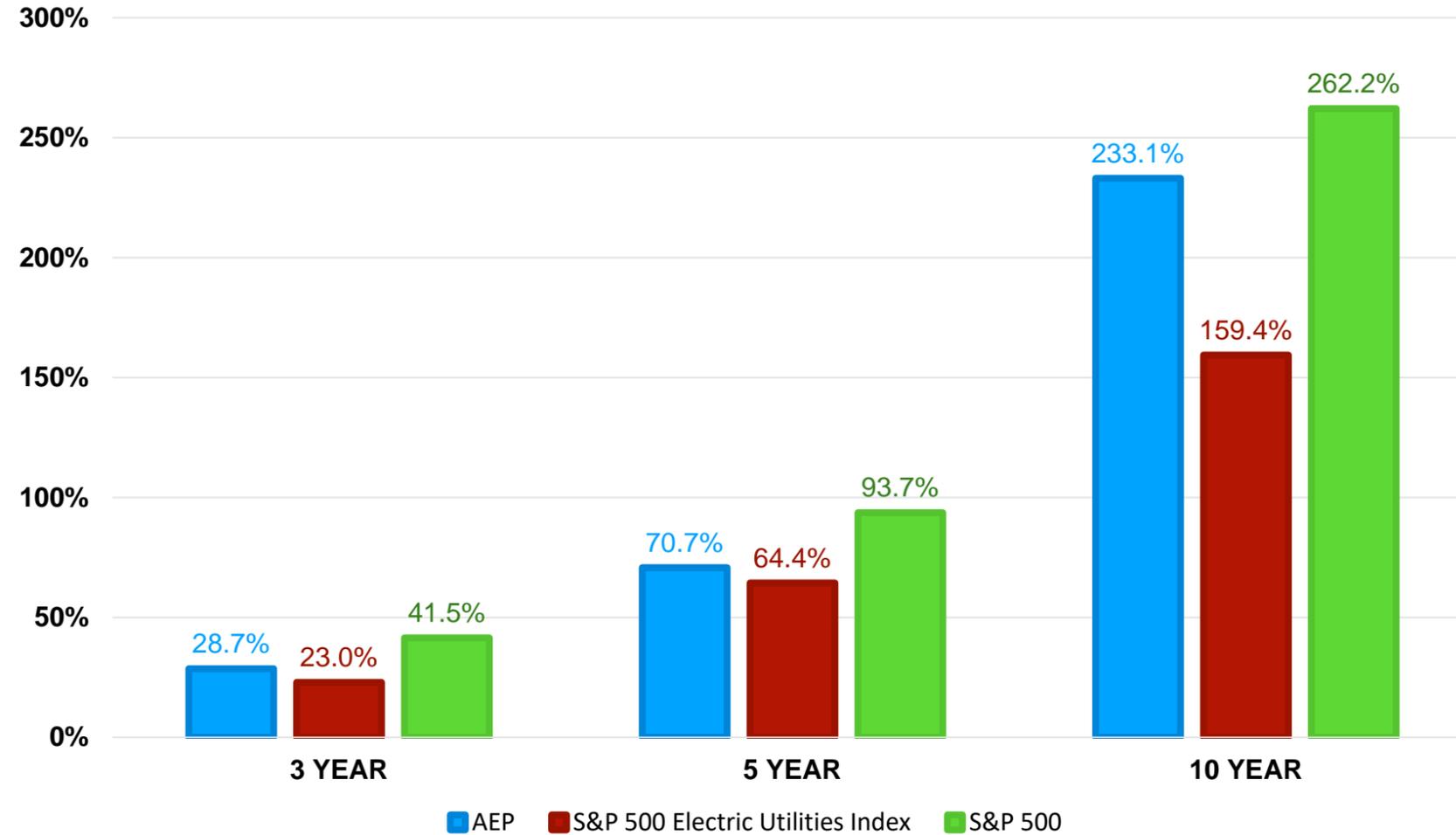
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2021 EPS  
MIDPOINT  
\$4.61

- ✓ **STEADY GROWTH**
- ✓ **CONSISTENT DIVIDENDS**
- ✓ **LOW RISK, REGULATED ASSETS**
- ✓ **INVESTMENT PIPELINE**
- ✓ **INCENTIVE COMPENSATION TIED TO EPS RESULTS**

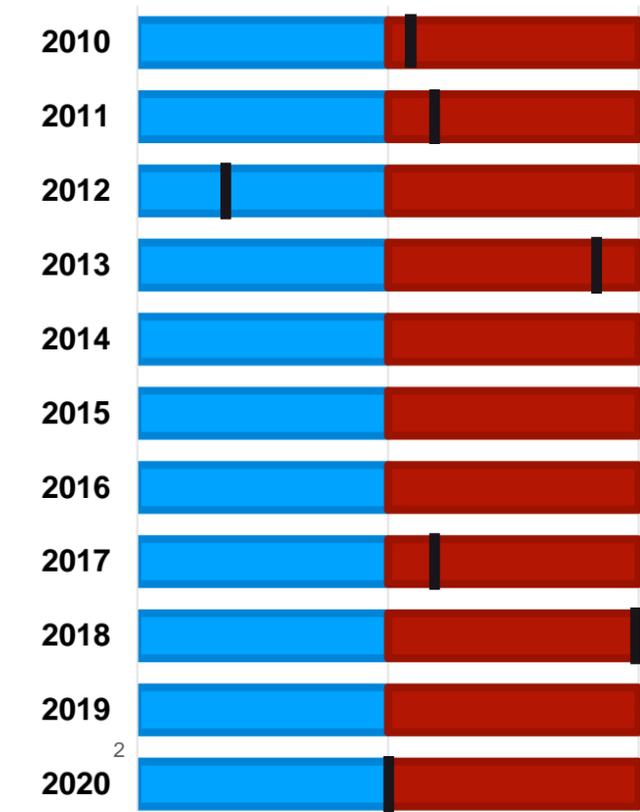
# Proven Track Record of Performance

## FAVORABLE TOTAL SHAREHOLDER RETURN<sup>1</sup>

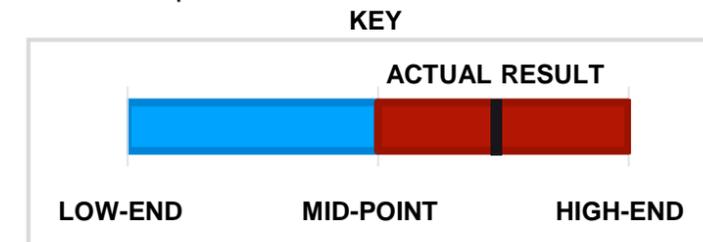


<sup>1</sup> Data as of September 30, 2020

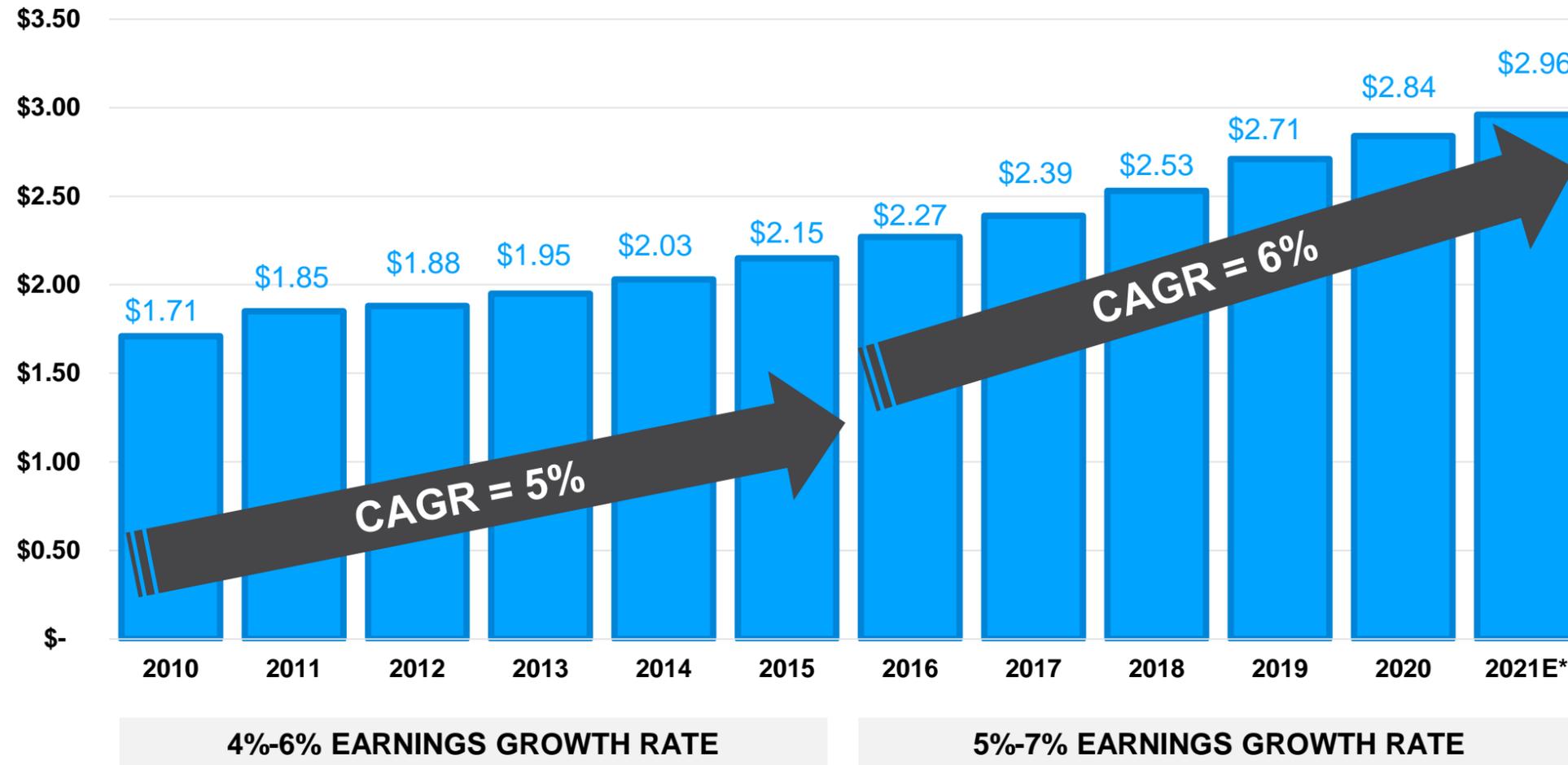
## DECADE OF MEETING OR EXCEEDING ORIGINAL OPERATING EPS GUIDANCE



<sup>2</sup> EPS midpoint



# Strong Dividend Growth



- ✓ Targeted payout ratio 60-70% of operating earnings
- ✓ Over 110 years of consecutive quarterly dividends
- ✓ Targeted dividend growth in line with earnings

**EPS Growth + Dividend Yield = 8% to 10% Annual Return Opportunity**

\* Subject to Board approval

# O&M Optimization

INITIATIVES	ACTIONS
Achieving Excellence Program	<ul style="list-style-type: none"> <li>• <b>Employee based O&amp;M prioritization and optimization effort</b></li> <li>• <b>Driven down costs in 2020 &amp; beyond, initial results imbedded in budgets</b></li> <li>• <b>Program was transitioned from EHS partners to internal resources and will continue annually</b></li> <li>• <b>2021 Program</b> – New O&amp;M savings ideas, evaluation of further study ideas and Future of Work opportunities</li> <li>• <b>Future of Work</b> – Optimization of Value Streams (end-to-end work flow)</li> </ul>
Lean Management System Implementation/Continuous Process Improvement	<ul style="list-style-type: none"> <li>• <b>Distribution</b> – Enhanced reliability to reduce O&amp;M and improve storm hardening</li> <li>• <b>Supply chain</b> – Optimize the material requisition process to improve material lead times, reducing stock and increasing crew productivity</li> <li>• <b>Fleet operations</b> – Reduce the number of vehicle platforms and optimize the acquisition process</li> <li>• <b>Generation (system productivity)</b> – Optimize plant systems and operations</li> </ul>
Data Analytics	<ul style="list-style-type: none"> <li>• <b>Workforce optimization</b> – Employee/contractor mix</li> <li>• <b>Hot socket model</b> – Using AMI data to preemptively identify meters at risk</li> <li>• <b>Revenue protection</b> – Detecting meter tampering</li> <li>• <b>Frequency regulation</b> – Analysis of PJM bidding strategies</li> </ul>
Automation	<ul style="list-style-type: none"> <li>• <b>Scrap metal billing and management</b></li> <li>• <b>Service Corp billing allocation factors</b></li> <li>• <b>No-bill workflow assignment process</b></li> <li>• <b>Customer workflow scheduling</b></li> </ul>
Digital Tools	<ul style="list-style-type: none"> <li>• <b>“The Zone”</b> – Machine learning tool to operate fossil units to minimize O&amp;M and capital, while maintaining improved performance</li> <li>• <b>Generation Monitoring and Diagnostic Center</b> – Predictive capabilities that save O&amp;M and capital</li> </ul>
Use of Drones	<ul style="list-style-type: none"> <li>• <b>Storm damage assessment</b></li> <li>• <b>Real estate and land surveys</b></li> <li>• <b>Transmission facility inspections, construction monitoring and documentation</b></li> <li>• <b>Telecommunication tower inspections</b></li> <li>• <b>Cooling tower and boiler inspections</b></li> </ul>
Outsourcing	<ul style="list-style-type: none"> <li>• <b>Accounting and tax initiative</b></li> <li>• <b>Rapid application and information support</b></li> <li>• <b>Lockbox for customer payments by check</b></li> </ul>
Workforce Planning	<ul style="list-style-type: none"> <li>• <b>Approximately 4,000 employees will retire or leave in the next 5 years</b></li> </ul>
Strategic Sourcing	<ul style="list-style-type: none"> <li>• <b>Reducing cost through procurement category management</b> – Continuing to mature our Category Management program and aggressively using strategic sourcing opportunities to optimize the value AEP receives from the \$6B spent annually on goods and services</li> </ul>

# ESG Focus

## ENVIRONMENTAL

- Dramatic reductions in emissions
- 42% reduction in coal capacity by 2030
- Coal capacity = 15% of rate base
- ~\$9B spent on environmental controls since 2000
- Carbon emission reduction goals: 70% by 2030, 80% by 2050, with zero emission aspirations
- Emission reduction strategy tied to long-term incentive compensation



## SOCIAL

- Diversity and inclusion vision
- Focused on economic and business development in our service territories
- Zero Harm mentality – zero injuries, zero occupational illnesses and zero fatalities



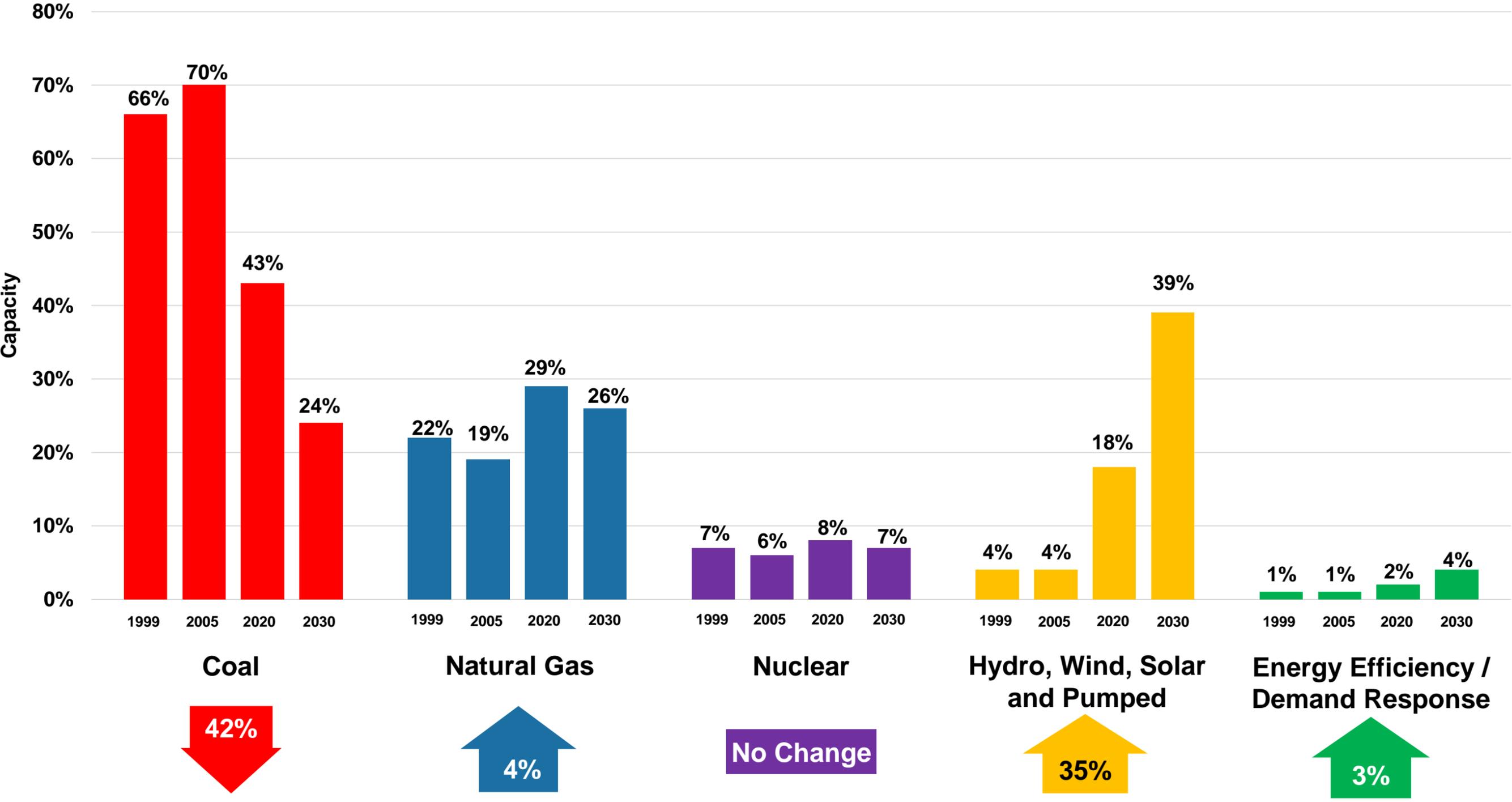
## GOVERNANCE

- 13 directors, 12 are independent, 38% diverse with an average tenure of 7 years
- Annual shareholder engagement on strategy and ESG matters with lead independent director participation
- Environmental reports provided at every Board meeting



Note: See "Environmental, Social & Governance section for further information

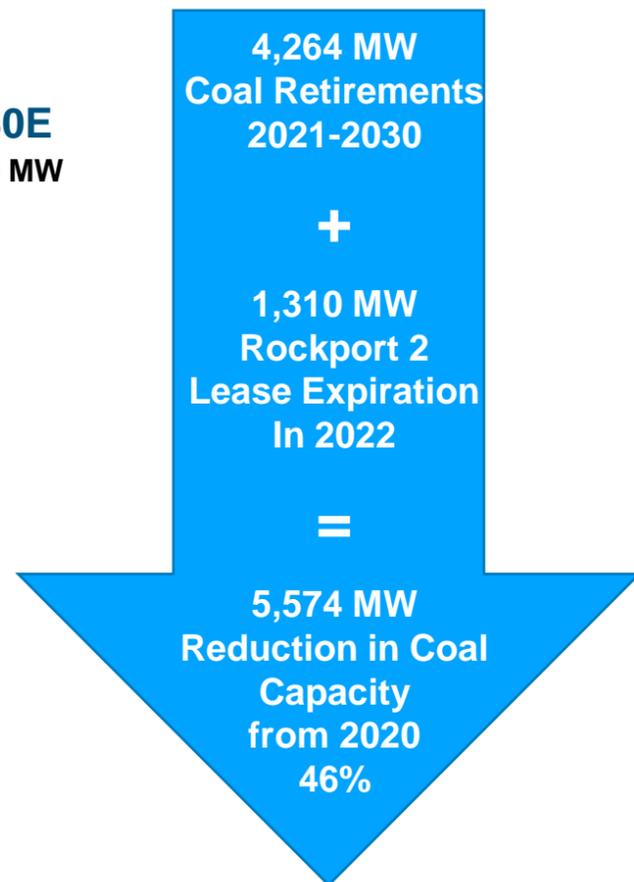
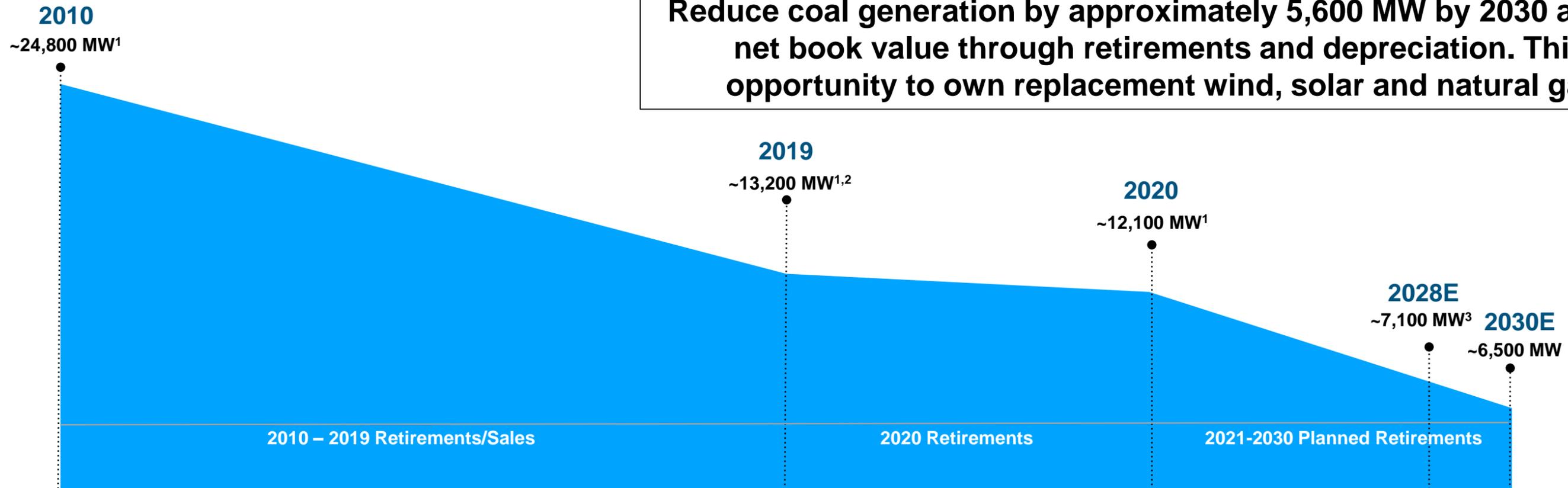
# Transforming Our Generation Fleet



2020 data as of 10/1/2020. 2030 includes IRP forecasted additions and retirements as well as subsequent public filings. 2030 does not include wind, solar and natural gas replacement capacity for certain recently announced coal retirements. Energy Efficiency / Demand Response represents avoided capacity rather than physical assets.

# Retirement Progress and Plans

Reduce coal generation by approximately 5,600 MW by 2030 and decrease coal net book value through retirements and depreciation. This creates the opportunity to own replacement wind, solar and natural gas resources.



YEAR	PLANT	CAPACITY	YEAR	PLANT	CAPACITY	YEAR	PLANT	CAPACITY	YEAR	PLANT	CAPACITY
2011	Sporn 5	450 MW	2015	Sporn 1-4	600 MW	2020	Conesville 4	651 MW	2021	Dolet Hills	257 MW
2012	Conesville 3	165 MW	2015	Tanners Creek 1-4	995 MW	2020	Oklunion	460 MW	2023	Pirkey	580 MW
2014	Beckjord	53 MW	2016	Big Sandy 1	278 MW				2026	Northeastern 3	469 MW
2015	Big Sandy 2	800 MW	2016	Clinch River 1 & 2	470 MW				2028	Rockport 1	1,310 MW
2015	Clinch River 3	235 MW	2016	Northeastern 4	470 MW				2028	Welsh	1,053 MW
2015	Glen Lyn 5 & 6	335 MW	2016	Welsh 2	528 MW				2030	Cardinal	595 MW
2015	Kammer 1-3	630 MW	2017	Gavin 1 & 2	2,640 MW						
2015	Kanawha River 1 & 2	400 MW	2017	Zimmer	330 MW						
2015	Muskingum River 1-5	1,440 MW	2018	Stuart 1-4	600 MW						
2015	Picway 5	100 MW	2019	Conesville 5 & 6	820 MW						

<sup>1</sup> Total includes owned coal units and the Rockport 2 lease  
<sup>2</sup> Includes 2012 Turk Plant addition and 40% of Conesville 4 that was acquired in conjunction with the sale of Zimmer Plant  
<sup>3</sup> Total accounts for the expiration of the Rockport 2 lease

# EPA Notice of New Coal Retirements

- The EPA recently revised requirements of both the Coal Combustion Residual Rule (CCR) and Effluent Limitation Guidelines (ELG), requiring significant dollar investment to utilities' coal-fired generation fleets.
- AEP continues to evaluate its fleet on a plant-by-plant basis to determine the economic value to both the customer and the company
- AEP plans to file its intentions with the EPA in November 2020

Plant/Unit	Operating Company	EPA Filing Details	Authority to Operate (current plans)
Rockport 2	AEG/I&M	CCR + ELG Extension, CCR Compliant in 2023	Returning to lessors at the end of lease term (Dec 2022)
Pirkey	SWEPCO	Retirement Extension, Close Ponds by 10/17/2023 Stop Generation in 2023	Retire in 2023
Rockport 1	AEG/I&M	CCR-Only Extension, CCR Compliant in 2023	Full Depreciable Life (2028)
Welsh 1 & 3	SWEPCO	Retirement Extension, Close Ponds by 10/17/2028 Stop generation in 2028	Retire in 2028
Flint Creek	SWEPCO	CCR + ELG Extension, CCR Compliant in 2023	Full Depreciable Life (2038)
Amos 1, 2, & 3	APCo	CCR + ELG Extension, CCR Compliant in 2023	Full Depreciable Life (2040)
Mountaineer	APCo	CCR + ELG Extension, CCR Compliant in 2023	Full Depreciable Life (2040)
Mitchell 1 & 2	KPCo/WPCo	CCR + ELG Extension, CCR Compliant in 2023	Full Depreciable Life (2040)

# Advancing Towards a Clean Energy Future

## Projected Resource Additions<sup>1</sup>

SOLAR ADDITIONS (MW) ☀️				WIND ADDITIONS (MW) 🌿				NATURAL GAS ADDITIONS (MW) 🔥				TOTAL PROJECTED RESOURCE ADDITIONS (MW)	
Company	2021 - 2022	2023 - 2025	2026 - 2030	Company	2021 - 2022	2023 - 2025	2026 - 2030	Company	2021 - 2022	2023 - 2025	2026 - 2030	Resource	2021-2030
APCo	110	150	450	APCo	-	200	400	I&M	18	18	788	<b>Solar</b>	<b>3,794</b>
I&M	150	300	850	I&M	300	150	300	PSO	373 <sup>3</sup>	37 <sup>3</sup>	373 <sup>3</sup>	<b>Wind</b>	<b>4,235</b>
KPCo	20	253	-	KPCo	-	-	200	<b>Totals</b>	<b>391</b>	<b>55</b>	<b>1,161</b>	<b>Natural Gas</b>	<b>1,607</b>
PSO	11	300	900	PSO	675 <sup>2</sup>	400	200					<b>Totals</b>	<b>9,636</b>
SWEPCO	-	200	100	SWEPCO	810 <sup>2</sup>	600	-						
<b>Totals</b>	<b>291</b>	<b>1,203</b>	<b>2,300</b>	<b>Totals</b>	<b>1,785</b>	<b>1,350</b>	<b>1,100</b>						

<sup>1</sup> Representative of IRP filings and subsequent public filings or RFPs, as well as projects that have obtained regulatory approval, but have not yet reached commercial operation. Projected resource additions do not include wind, solar and natural gas replacement capacity for certain recently announced future coal retirements.

<sup>2</sup> Represents North Central Wind

<sup>3</sup> To replace expiring PPA

As of 11/2/20

## Renewables Progress Update

Company	Structure	Solar (MW) ☀️	Wind (MW) 🌿	Public Status	Expected In-Service	In 2021-2025 Capital Plan
APCo (VA)	PPA	15	-	Expected COD Q2 2021	2021	N/A
APCo (VA)	PPA	40	-	Expected COD 2021	2021	N/A
APCo (VA)	Owned	105	-	Solar RFP issued in January 2020	2023	Yes
APCo (WV)	Owned	50	-	Solar RFP issued in June 2020	2022	Yes
I&M	Owned	20	-	Approval received (St. Joseph Solar)	2021	Yes
I&M	2/3 Owned & 1/3 PPA	300 <sup>4</sup>	150 <sup>4</sup>	Solar and wind RFP issued November 2020	2023	Yes
PSO	Owned	-	675	Approval received (North Central Wind)	2021/2022	Yes
SWEPCO (AR, LA)	Owned	-	810	Approval received (North Central Wind)	2021/2022	Yes
SWEPCO (LA)	Owned or PPA	200	-	Solar RFP planned for 4Q20 (part of North Central Wind settlement for LA)	2024	No
<b>Total MW</b>		<b>730</b>	<b>1,635</b>			

<sup>4</sup> Final solar and wind split to be determined

**Total of 2,365 MW of renewable projects in progress**

# APCo Virginia Clean Energy Initiative Details

## Current & Pending Renewable Resources (MW)

	PPA	Owned	Total	Counts Toward VCEA <sup>1</sup> MW Goal <sup>2</sup>	VCEA Targets <sup>3</sup>	% Progress
Hydro – Current	80	200	280	254	254	100%
Wind – Current	495	-	495	140	2,200	6.4%
<b>Total Current</b>	<b>575</b>	<b>200</b>	<b>775</b>	<b>394</b>		
Solar - Pending	55	105	160	160	3,460	4.6%
<b>Total Current &amp; Pending<sup>4</sup></b>	<b>630</b>	<b>305</b>	<b>935</b>	<b>554</b>	<b>5,914</b>	<b>9.4%</b>

## Projected Long Term Resource Additions (MW)

	2021-2025 <sup>5</sup>			2026-2030			2031-2050			Total			Counts Toward VCEA MW Goal <sup>2</sup>	VCEA Targets <sup>3</sup>	% Progress
	PPA	Owned	Total	PPA	Owned	Total	PPA	Owned	Total	PPA	Owned	Total			
Wind	-	200	200	-	400	400	-	1,600	1,600	-	2,200	2,200	2,200	2,200	100%
Solar	105	105	210	150	300	450	1,000	1,800	2,800	1,255	2,205	3,460	3,460	3,460	100%
<b>Total</b>	<b>105</b>	<b>305</b>	<b>410</b>	<b>150</b>	<b>700</b>	<b>850</b>	<b>1,000</b>	<b>3,400</b>	<b>4,400</b>	<b>1,255</b>	<b>4,405</b>	<b>5,660</b>	<b>5,660</b>	<b>5,660</b>	<b>100%</b>

<sup>1</sup> Virginia Clean Economy Act

<sup>2</sup> Includes Virginia jurisdictional share of owned and contracted facilities

<sup>3</sup> Targets reflect renewable resources necessary to meet requirements in VCEA through 2050

<sup>4</sup> Does not include an additional 585 MWs of in-service pumped storage owned by APCo

<sup>5</sup> Includes pending solar projects

# Additional Clean Energy Initiatives



An **AEP** Company

- In November 2020, I&M released a RFP for **450 MW** of combined wind and solar resources projected to be in service by the end of 2023

(MW)	Solar	Wind	Total <sup>1</sup>
PPA	100	50	<b>150</b>
Owned	200	100	<b>300</b>
Total	300	150	<b>450</b>

<sup>1</sup> Final solar and wind split to be determined

- In addition, I&M announced that it will not renew its lease of Rockport Unit 2 which expires in Dec. 2022
- With the previously-announced retirement of Rockport Unit 1, I&M will be coal-free by the end of 2028
  - Does not include I&M's 7.85% contractual share of OVEC
  - Generation fleet will consist of Cook nuclear facility and renewables
- On track to meet 100% of its energy needs from clean resources by 2028



An **AEP** Company

- Over the next 20 years, SWEPCO will generate over **one-third** of its energy from **wind and solar** (9% to 36%)
- Will begin offering large scale solar directly to Arkansas municipal customers in 2021
- Committed to purchasing up to **30 MW** of solar from independent producers in Louisiana through its Renewable Energy Pilot Program tariff



An **AEP** Company

- In June 2020, PSO signed a 30-year lease with the Army to install an energy resilience project on approximately 81 acres at Fort Sill
- Project includes the construction of **36 MW** of gas-fired generation and **11 MW** of solar panels
- In October 2020, PSO filed for commission approval for \$118 million of investment for construction of the gas-fired and solar generation



An **AEP** Company

- Aggregation where eligible customers within the City of Columbus will be served by 100% clean energy sourced from Ohio renewable assets. The aggregation will tackle social and environmental equity issues, employing Ohio workers and providing job training.
- Customers - 180,000 to 220,000
- Term - June 2021 thru December 2035
- Renewable Supply – Ohio renewable projects such as Emerson Creek Wind Farm **240 MW**, Columbus Solar Park **50 MW**, Atlanta Farms Solar Farm **200 MW**

# North Central Wind Overview



## APPROVED MW ALLOCATION

Jurisdiction (Docket #)	MW	% of Project
PSO (PUD 2019-00048)	675	45.5%
SWEPCO – AR (19-035-U)	268	18.1%
SWEPCO – LA (U-35324)	464	31.2%
SWEPCO - FERC	78	5.2%
Total:	1,485	100%

## SWEPCO AND PSO REGULATED WIND INVESTMENT

Total Rate Base Investment	~\$2 billion (1,485 MW)			
North Central Wind	Name	MW	Investment	Target Date
	Sundance	199	\$348M	Mar. 2021 (100% PTC)
	Maverick	287	\$402M	Dec. 2021 (80% PTC)
	Traverse	999	\$1,235M	Dec. 2021 to Apr. 2022 (80% PTC)
Net Capacity Factor	44.0%			
Customer Savings	~\$3 billion (30-year nominal \$)			
Developer	Invenergy			
Turbine Supplier	GE			

Note: Facilities to be acquired on a fixed cost, turn-key basis at completion

**Regulatory approvals achieved in Oklahoma, Louisiana, Arkansas and at FERC**

# POSITIONING FOR THE FUTURE

- Robust Organic Capital Opportunities
- 2021-2025 Capital Forecast
- Cash Flows and Financial Metrics
- Rate Base Growth
- Efficient Cost Recovery Mechanisms



# Robust Organic Capital Opportunities

## TRANSMISSION

- Grid modernization
- Aging infrastructure
- Physical/cyber security
- Reliability
- Market efficiency
- Economic development projects

## DISTRIBUTION

- Grid modernization
- Reliability improvement projects
- Distribution station refurbishment

## RENEWABLES

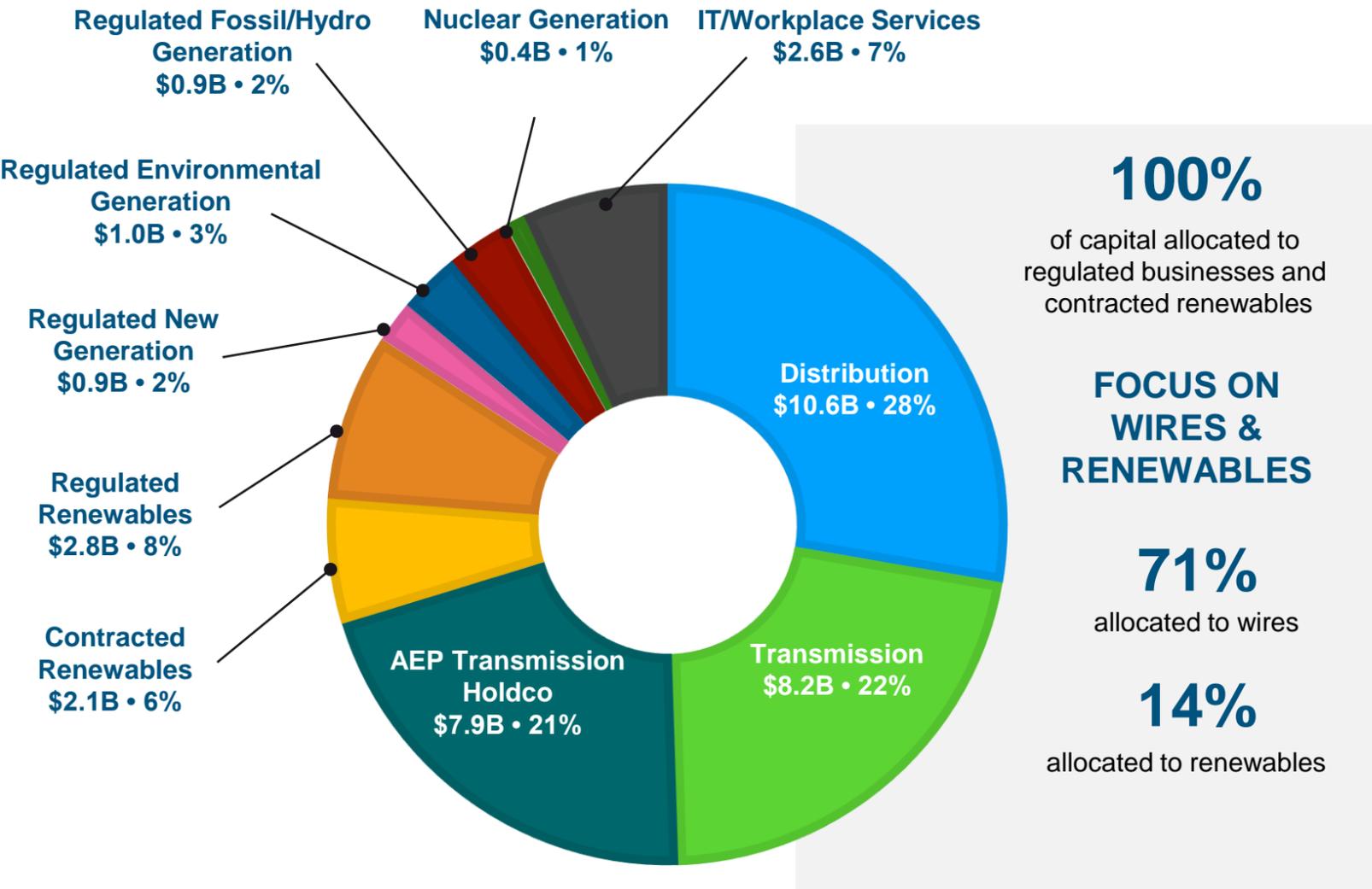
- Regulated renewables supported by integrated resource plans and contracted renewables

## TECHNOLOGY

- Digitization
- Automation
- Cyber security
- Enterprise-wide applications

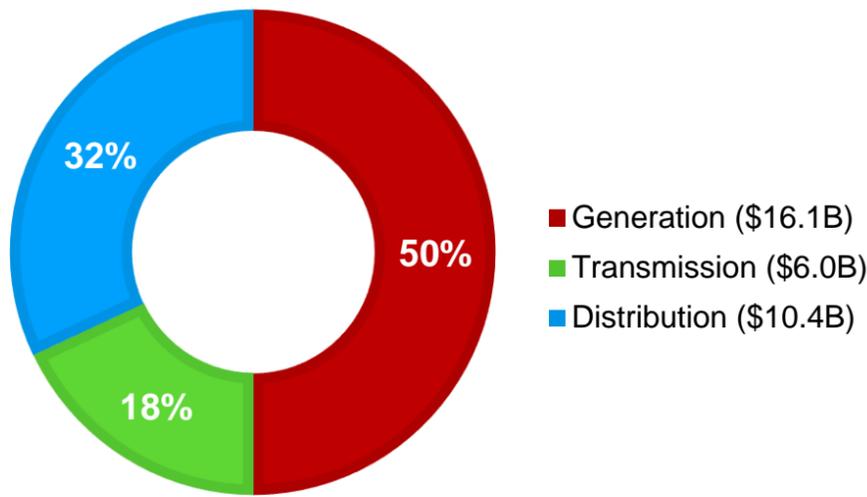
# 2021 - 2025 Capital Forecast of \$37B and Net Plant

## 2021-2025 Capital Forecast

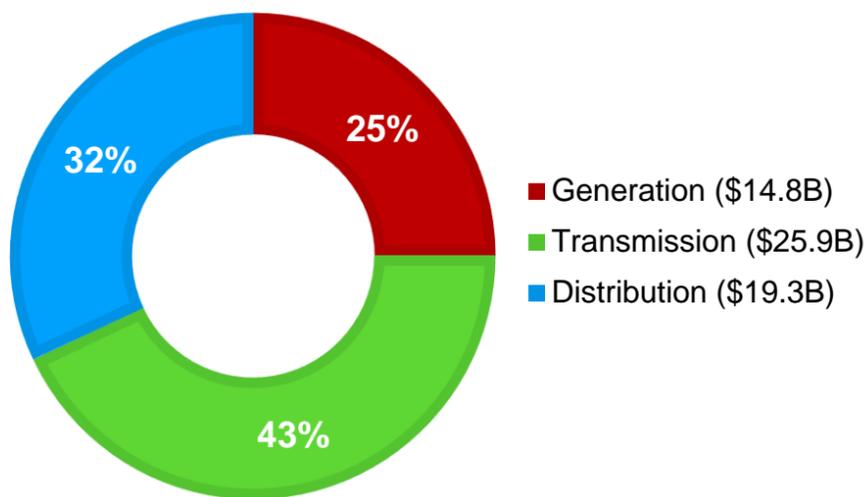


## Historical Net Plant Profiles

2010 (Total \$32.5B)

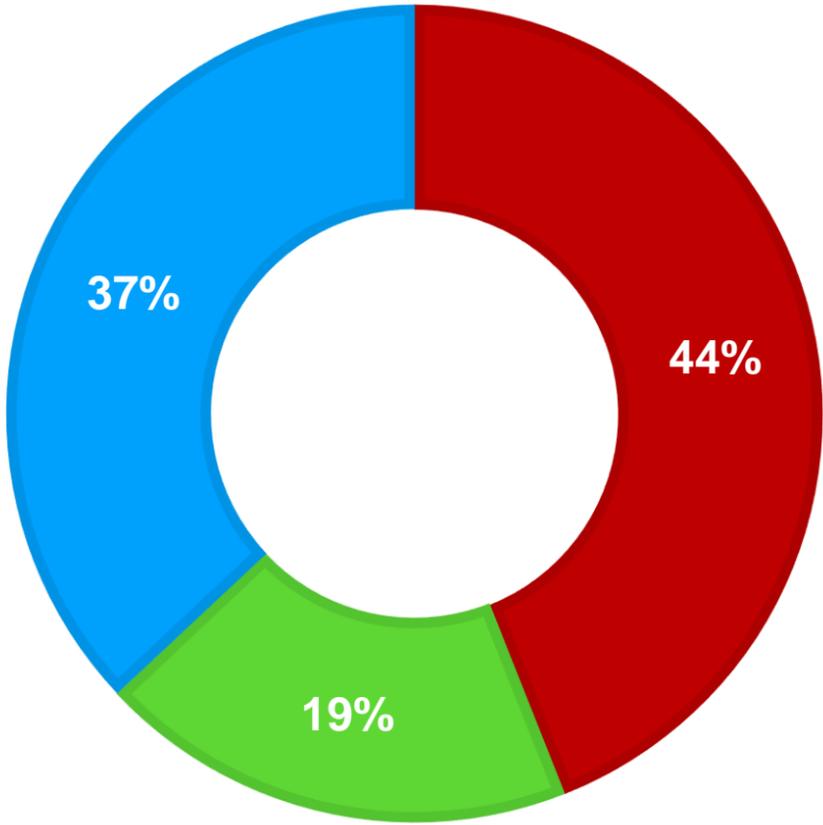


2020 (Total \$60B)



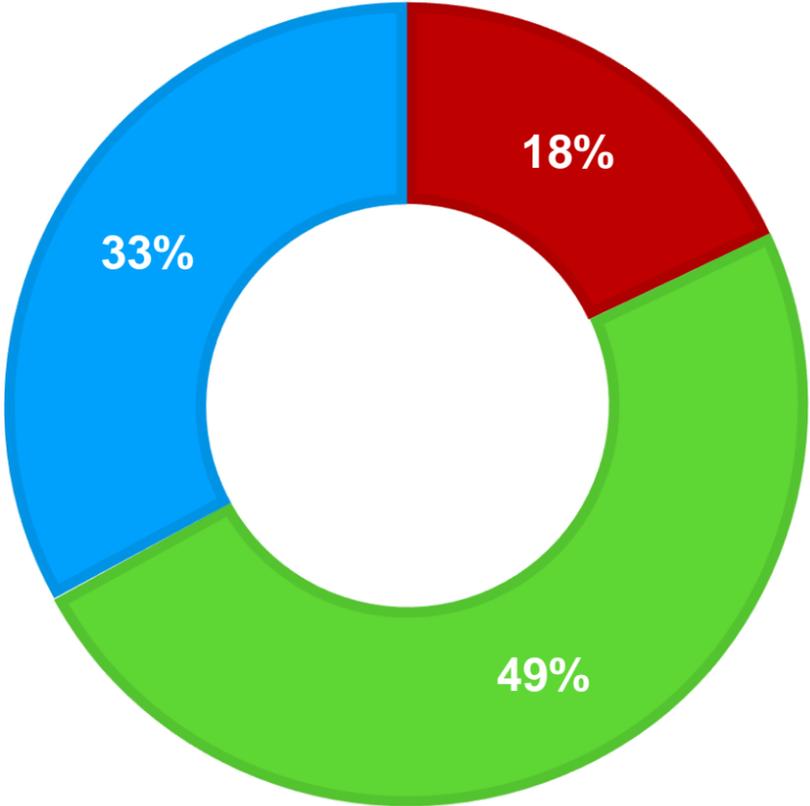
# Capital Allocation Shifted to Wires

2010 Capital

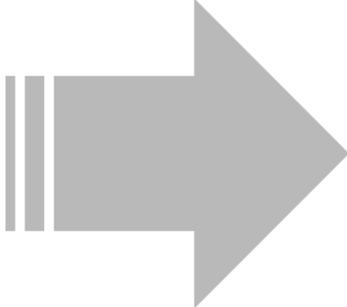


■ Generation ■ Transmission ■ Distribution

2021-2025 Capital Forecast



■ Generation ■ Transmission ■ Distribution



# 2021-2025 Capital Forecast by Subsidiary

\$ in millions (excludes AFUDC)	2021E	2022E	2023E	2024E	2025E	TOTAL
Appalachian Power Company	\$ 884	\$ 1,163	\$ 981	\$ 920	\$ 1,004	\$ 4,952
Wheeling Power Company	\$ 45	\$ 83	\$ 37	\$ 37	\$ 32	\$ 234
Kingsport Power Company	\$ 21	\$ 20	\$ 19	\$ 18	\$ 18	\$ 96
Indiana Michigan Power Company	\$ 578	\$ 569	\$ 937	\$ 575	\$ 705	\$ 3,364
Kentucky Power Company	\$ 180	\$ 235	\$ 164	\$ 184	\$ 231	\$ 994
AEP Ohio	\$ 789	\$ 754	\$ 802	\$ 878	\$ 821	\$ 4,044
Public Service Company of Oklahoma	\$ 730	\$ 1,105	\$ 474	\$ 378	\$ 921	\$ 3,608
Southwestern Electric Power Company	\$ 872	\$ 1,097	\$ 537	\$ 564	\$ 634	\$ 3,704
AEP Texas Company	\$ 1,194	\$ 1,091	\$ 1,098	\$ 1,300	\$ 1,388	\$ 6,071
AEP Generating Company	\$ 44	\$ 33	\$ 12	\$ 18	\$ 19	\$ 126
AEP Transmission Holdco	\$ 1,597	\$ 1,404	\$ 1,370	\$ 1,647	\$ 1,914	\$ 7,932
Generation & Marketing	\$ 501	\$ 412	\$ 415	\$ 418	\$ 348	\$ 2,094
Other	\$ 30	\$ 22	\$ 21	\$ 16	\$ 2	\$ 91
<b>Total Capital and Equity Contributions</b>	<b>\$ 7,465</b>	<b>\$ 7,988</b>	<b>\$ 6,867</b>	<b>\$ 6,953</b>	<b>\$ 8,037</b>	<b>\$ 37,310</b>

Capital plans are continuously optimized which may result in redeployment between functions and companies.

# Cash Flows and Financial Metrics

\$ in millions	2021E	2022E	2023E
Cash from Operations	\$ 5,000	\$ 5,500	\$ 6,000
Capital & JV Equity Contributions <sup>1</sup>	(7,500)	(8,000)	(6,900)
Other Investing Activities	(300)	(300)	(300)
Common Dividends <sup>2</sup>	(1,400)	(1,500)	(1,500)
Required Capital	<b>\$ (4,200)</b>	<b>\$ (4,300)</b>	<b>\$ (2,700)</b>
<b>Financing</b>			
Required Capital	\$ (4,200)	\$ (4,300)	\$ (2,700)
Debt Maturities (Senior Notes, PCRBs)	(2,000)	(3,000)	(1,400)
Securitization Amortizations	(100)	(100)	(100)
Equity Units Conversion	-	805	850
Equity Issuances – Includes DRP <sup>3</sup>	600	1,400	100
<b>Debt Capital Market Needs (New)</b>	<b>\$ (5,700)</b>	<b>\$ (5,195)</b>	<b>\$ (3,250)</b>
<b>Financial Metrics</b>			
Debt to Capitalization (GAAP)	Approximately 60%		
FFO/Total Debt (Moody's)	Low to Mid Teens Reflecting Accelerated Flowback of ADFIT		

<sup>1</sup> Capital expenditures in 2021 include \$750M for North Central Wind's Sundance and Maverick projects. Expenditures in 2022 include \$1.235B for North Central Wind's Traverse project.

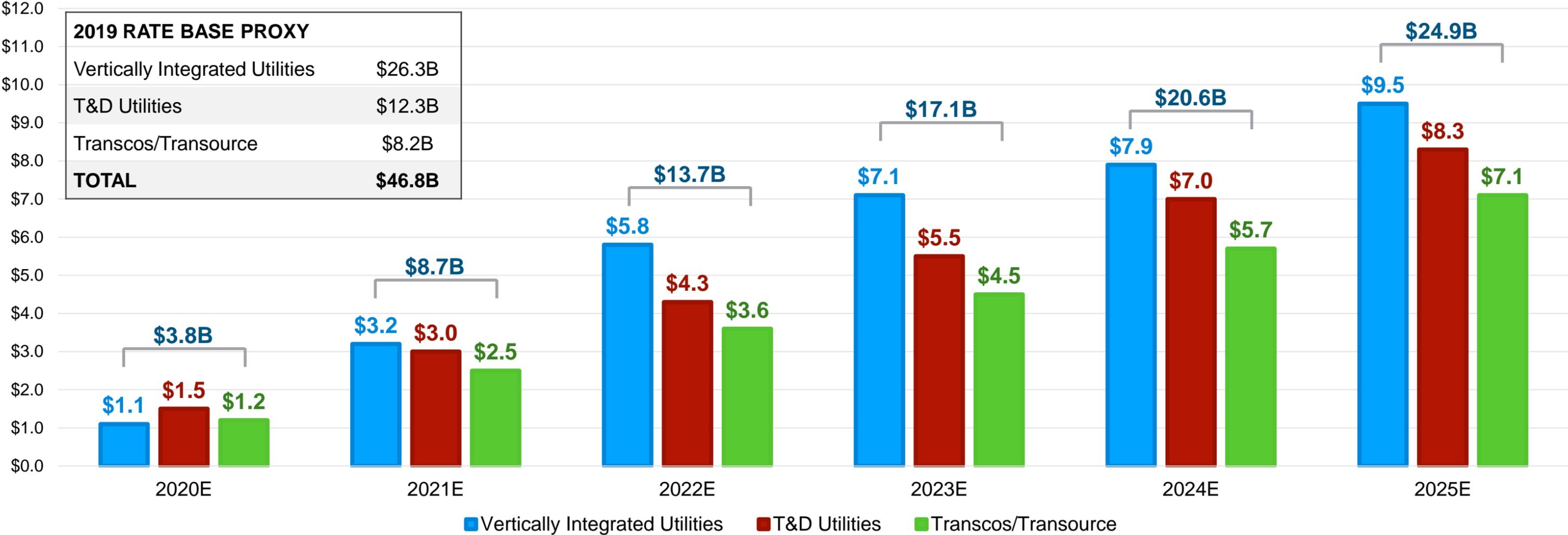
<sup>2</sup> Common dividends increased to \$0.74 per share Q4 2020; \$2.96/share 2021-2023. Dividends evaluated by Board of Directors each quarter; stated target payout ratio range is 60%-70% of operating earnings. Targeted dividend growth in line with earnings.

<sup>3</sup> Equity needs in 2021 include \$500M for North Central Wind's Sundance and Maverick projects. Equity needs in 2022 include \$800M for North Central Wind's Traverse project. Total equity needs for the project are \$1.3B.

Actual cash flows will vary by company and jurisdiction based on regulatory outcomes.

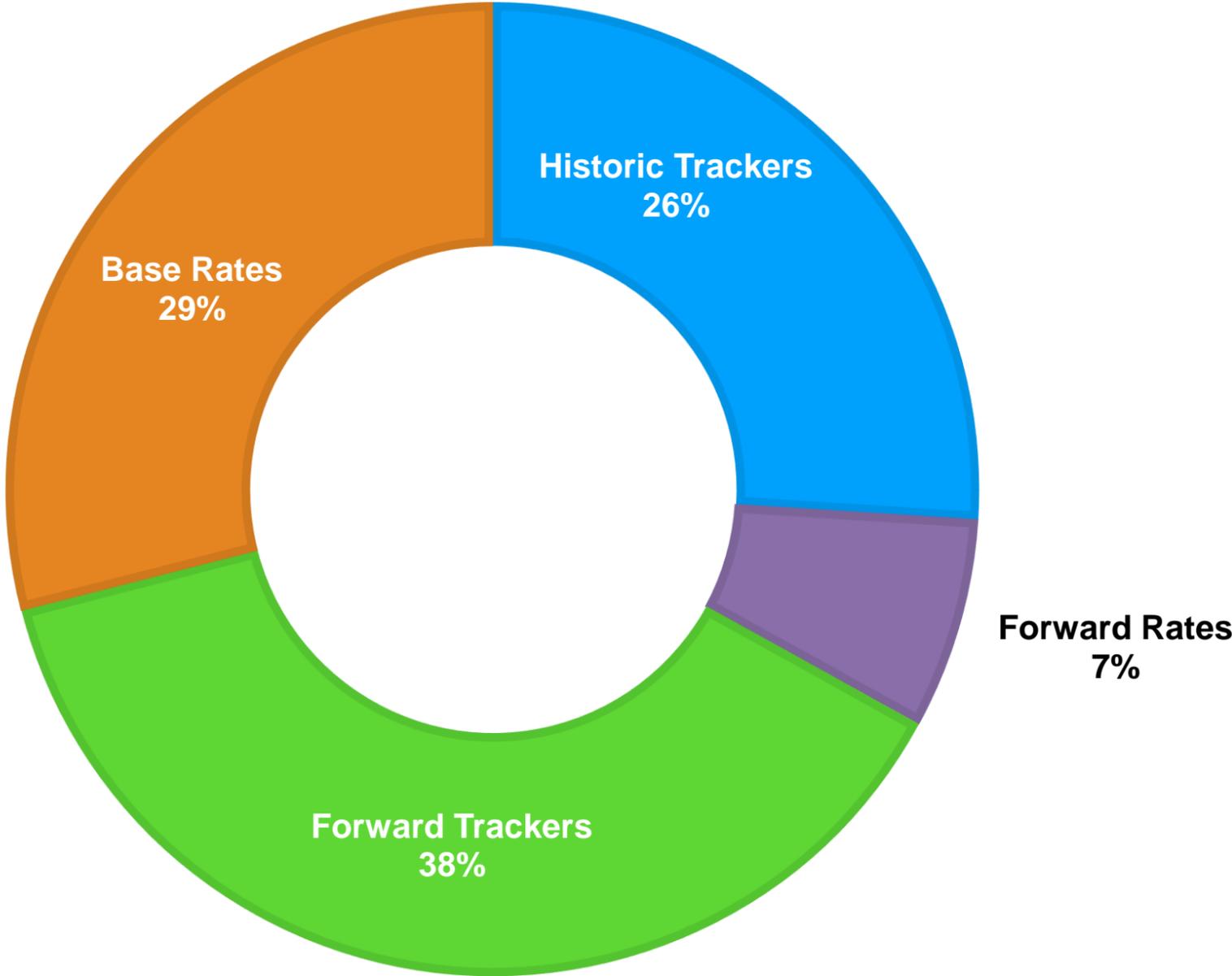
# 7.4% CAGR in Rate Base Growth

## CUMULATIVE CHANGE FROM 2019 BASE



5%-7% EPS growth is predicated on regulated rate base growth

# Efficient Cost Recovery Mechanisms



**More than 70% of 2021-2025 capital plan recovered through reduced lag mechanisms**

# FINANCIAL INFORMATION

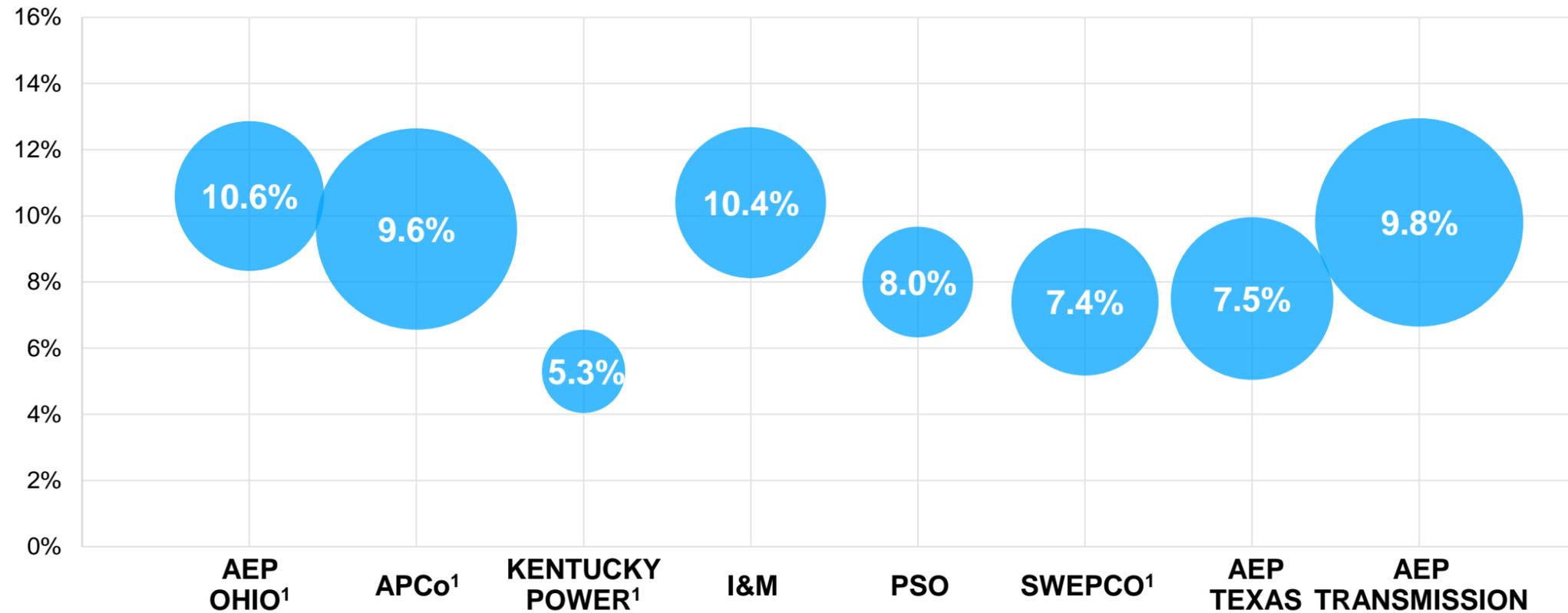
- Return on Equity and Authorized Equity Layers
- 2021 Operating Earnings Guidance
- 2021 Guidance Sensitivities and Assumptions
- Current Rate Case Activity
- Bending the O&M Curve
- Normalized Load Trends
- Pension and OPEB Estimates
- Operational and Financing Structure
- 2020 Long-term Debt Financings
- 2021 Debt Issuances and Maturities
- Credit Ratings

```
[cpu] done / done / password found / operation 129 227  
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[cpu] done / negative / error 003  
[cpu] error / error / restart  
[cpu] done / done / access / complete / operation 122 334  
[cpu] error  
[cpu] negative / analyzing / operation 552 390  
[cpu] preparation complete / code xxx000x0xx0x0
```



# Return on Equity and Authorized Equity Layers

**Twelve Months Ended 9/30/2020 Earned ROE's**  
(non-GAAP operating earnings, not weather normalized)



**Authorized Equity Layers**  
(in whole percentages)

Operating Company	12/31/17	9/30/20	Improvement
AEP Ohio <sup>2</sup>	48%	54%	6%
APCo – Virginia <sup>2</sup>	43%	50%	7%
APCo – West Virginia	47%	50%	3%
Kentucky Power <sup>2</sup>	42%	43%	1%
PSO	44%	48%	4%
SWEPCO – Arkansas	46%	48%	2%
AEP Texas	40%	43%	3%
AEP Transmission	50%	55%	5%

**2021 Forecasted Regulated ROE is 9.0%**

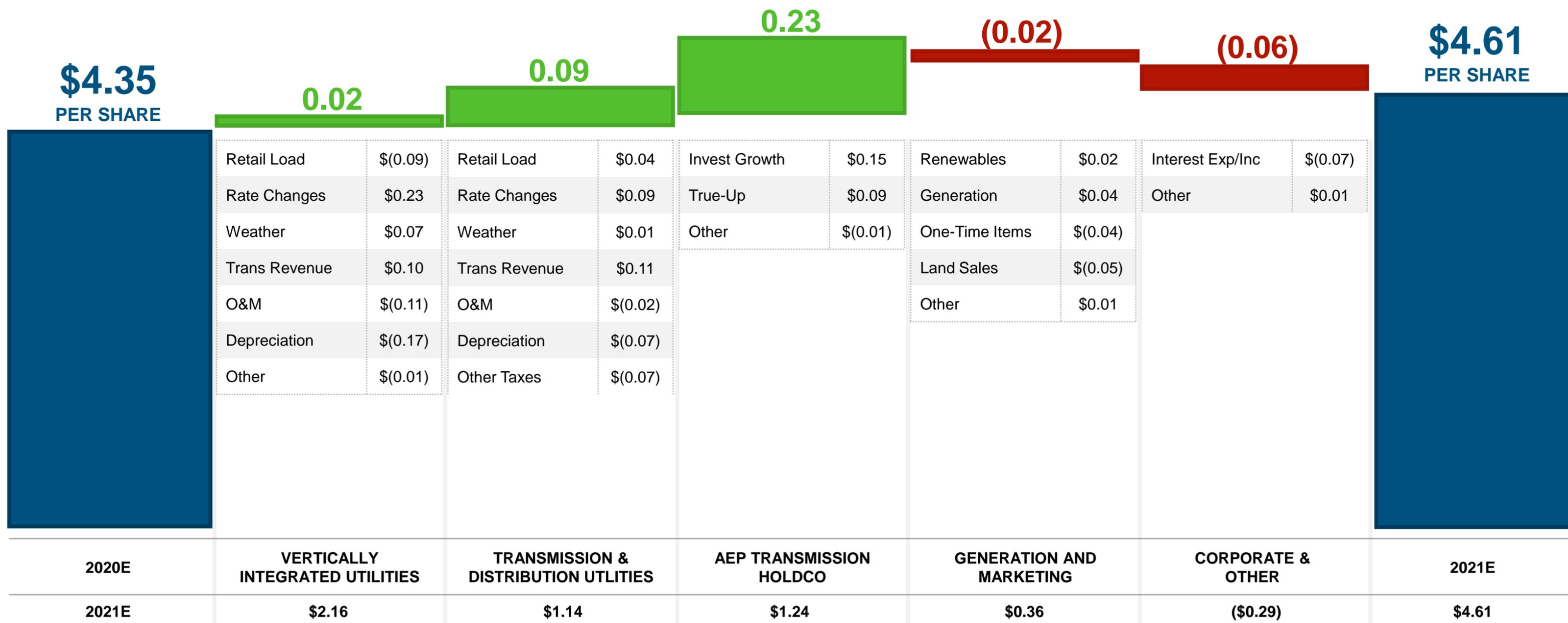
**Improving Our Authorized Equity Layers Over Time**

<sup>1</sup> Base rate cases pending

<sup>2</sup> 9/30/20 data represents equity layers as requested in pending base rate case

Sphere size based on each company's relative equity balance

# 2021 Operating Earnings Guidance



Note: Waterfall components may change based on actual 2020 results.

# 2021 Key Guidance Sensitivities and Assumptions

	SENSITIVITY		EPS	
			VIU	T&D
Retail Sales				
Residential	1.0%	+/-	0.030	0.004
Commercial	1.0%	+/-	0.013	0.003
Industrial	1.0%	+/-	0.011	0.001
O&M Expense (excludes O&M with offsets)	1.0%	+/-	0.04	
Interest Expense (floating debt)	25 bps	+/-	0.01	
Interest Expense (new issuances)	25 bps	+/-	0.01	
Regulated ROE	10 bps	+/-	0.05	

## ASSUMPTIONS

### 2021 REGULATED CONNECTED LOAD (BILLED AND ACCRUED)

Residential	59,064 GWh
Commercial	46,193 GWh
Industrial	56,293 GWh
Rate Changes: \$199M; \$107M secured	
Average Shares Outstanding: 499.2M	

A \$6.3M change in pretax earnings equals \$0.01 per share

Note: AFUDC earnings move inversely to interest expense from rate changes

# Current Rate Case Activity

## AEP OHIO

Docket #	20-0585-EL-AIR
Filing Date	06/01/2020
Requested Rate Base	\$3.1B
Requested ROE	10.15%
Cap Structure	45.6%D / 54.4%E
Gross Revenue Increase	\$36M (Less \$4.5M Depr Decrease)
Net Revenue Increase	\$41M
Test Year	11/30/2020



## APCo - VIRGINIA

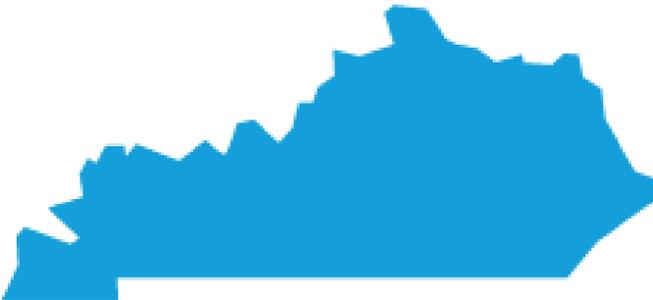
Docket #	PUR-2020-00015
Filing Date	03/31/2020
Requested Rate Base	\$2.5B
Requested ROE	9.9%
Cap Structure	50%D / 50%E
Gross Revenue Increase	\$65M (Less \$27M D&A)
Net Revenue Increase	\$38M
Test Year	12/31/2019
Expected Commission Order	11/30/2020
Expected Effective Date	First Quarter 2021



# Current Rate Case Activity

## KPCo

Docket #	2020-00174
Filing Date	06/29/2020
Requested Rate Base	\$1.4B
Requested ROE	10%
Cap Structure	53.7%D / 3.0%AR / 43.3%E
Net Revenue Increase	\$65M
Test Year	03/31/2020
Procedural Schedule	
Rebuttal Testimony	11/09/2020
Hearing	11/17/2020
Expected Effective Date	January 2021



## SWEPCO - Texas

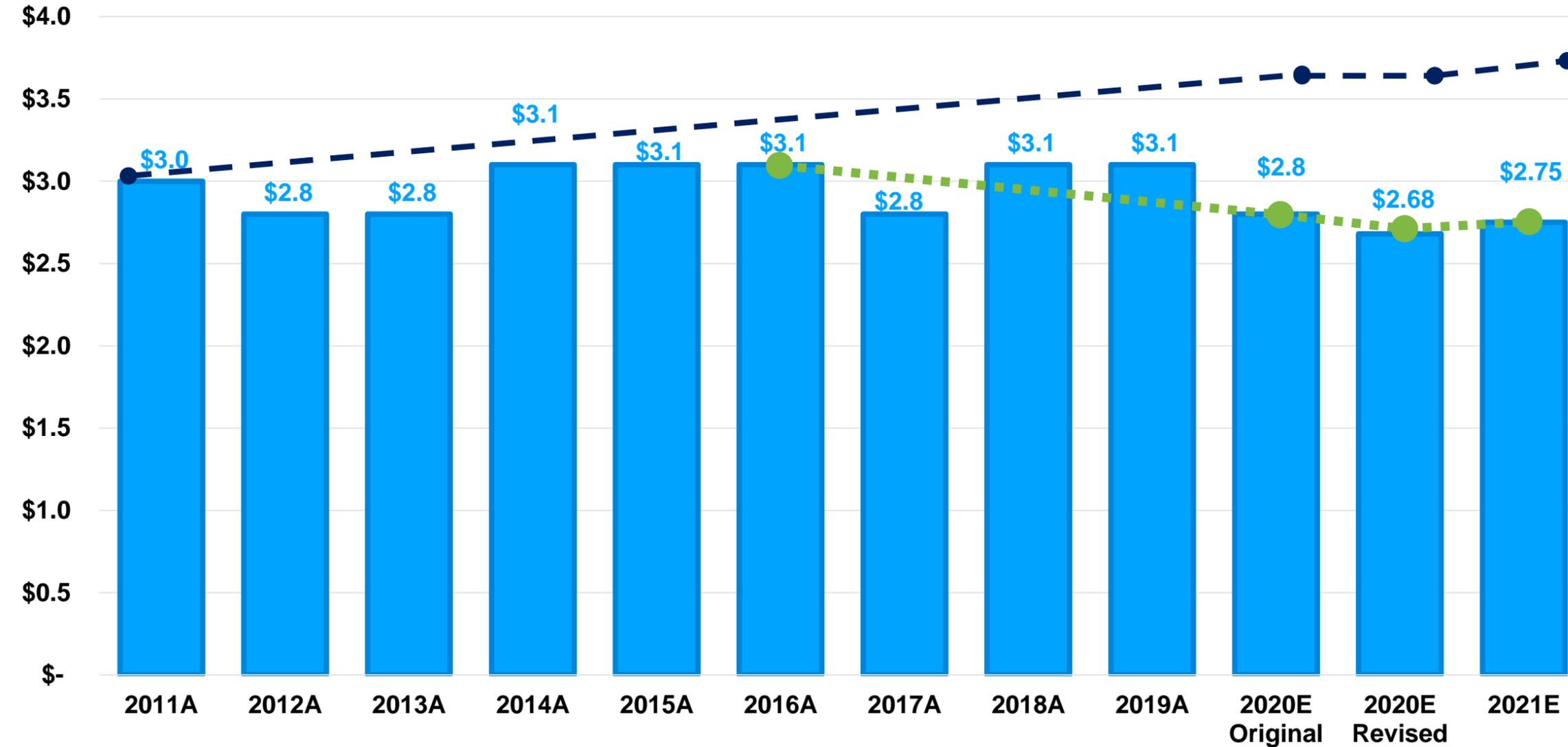
Docket #	51415
Filing Date	10/13/2020
Requested Rate Base	\$2.0B
Requested ROE	10.35%
Cap Structure	50.6%D / 49.4%E
Gross Revenue Increase	\$90M <sup>1</sup> (Less \$17M D&A)
Net Revenue Increase	\$73M
Test Year	03/31/2020

<sup>1</sup> Does not include \$15M of current riders moving to base rates



# Bending the O&M Curve

(in billions)

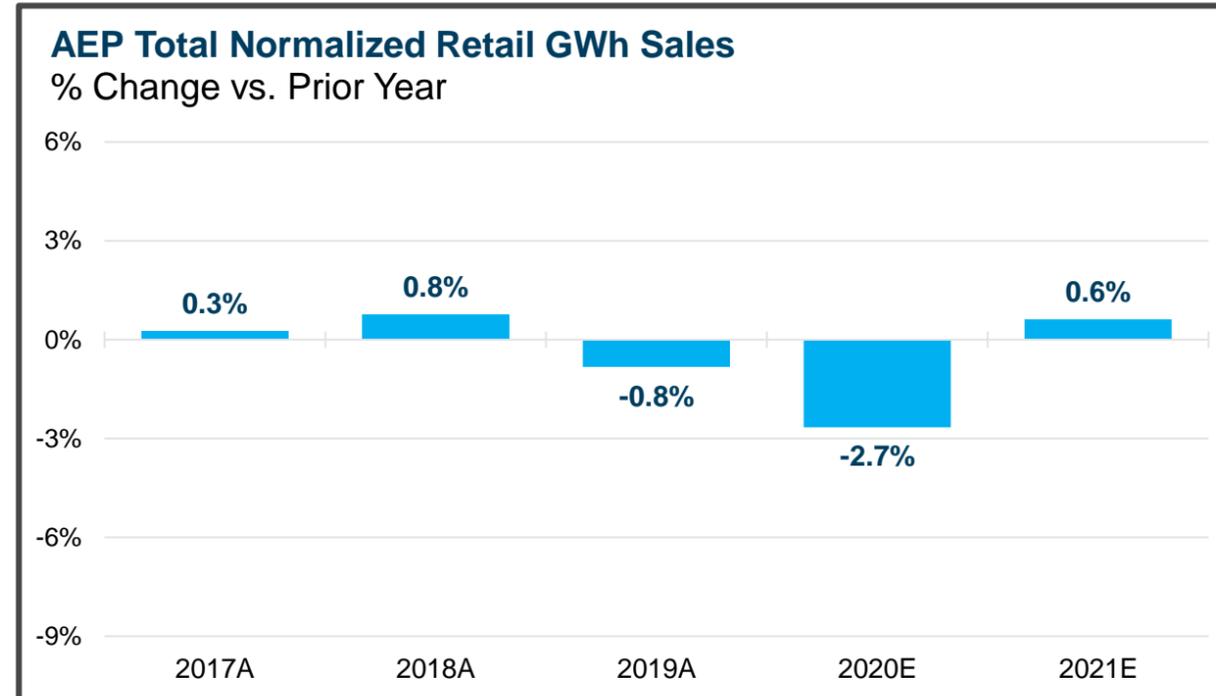
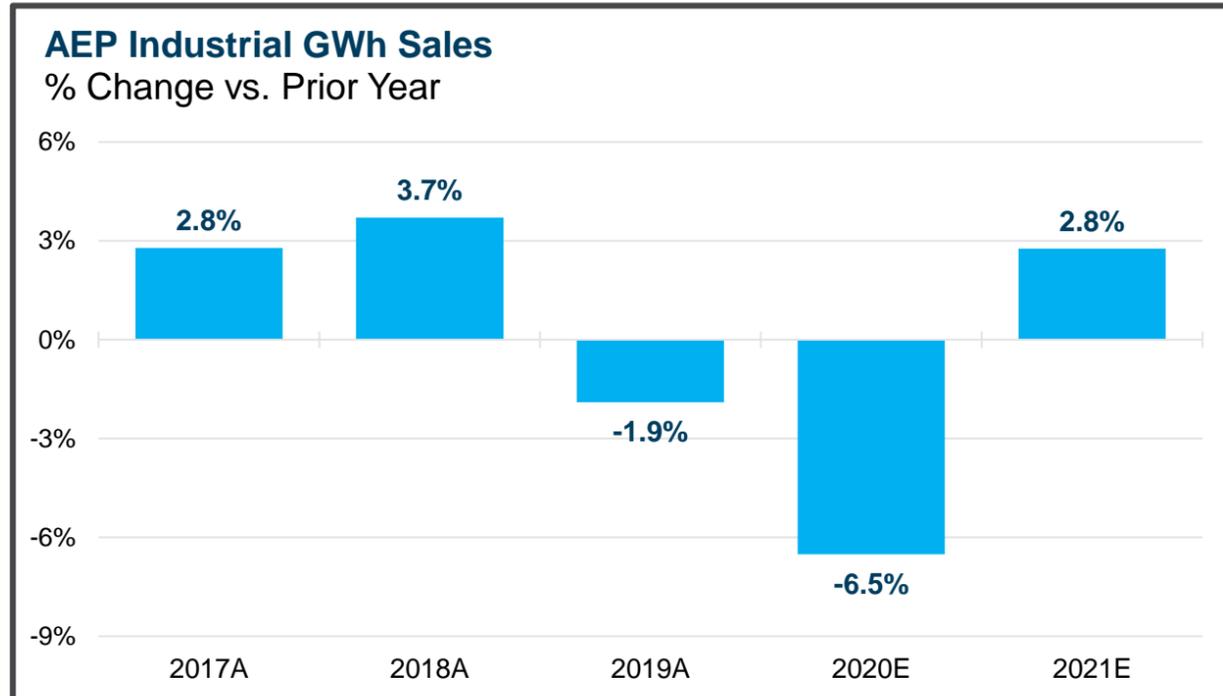
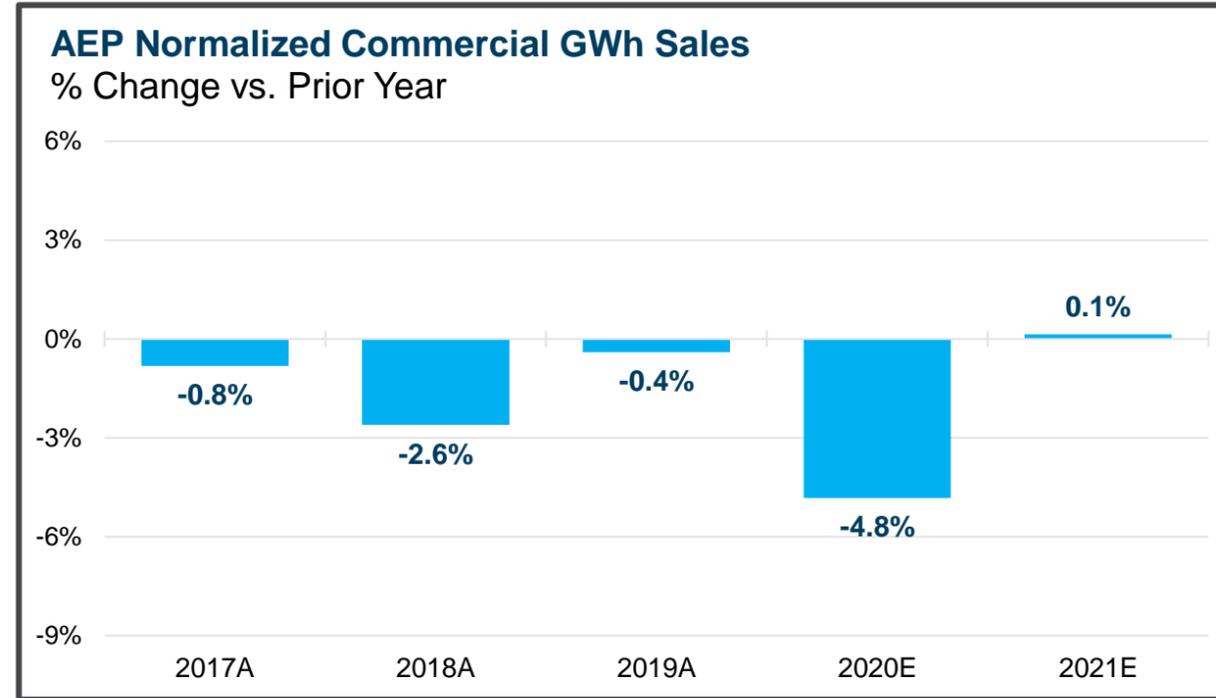
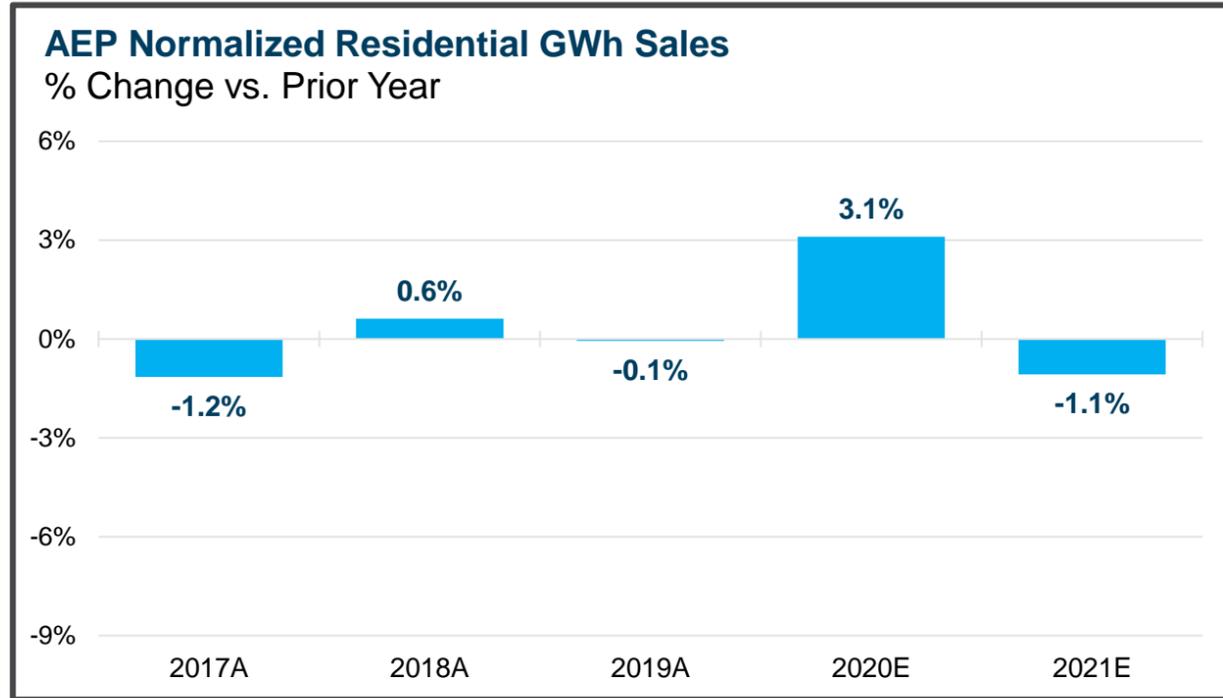


■ Actuals/2020-2021 Estimate   
 ●-● Inflation @ 2%   
 ●-● Bending the Curve Trajectory

O&M focuses on bending the O&M curve down

O&M actual spend represents adjusted spend throughout each year as needed

# Normalized Load Trends



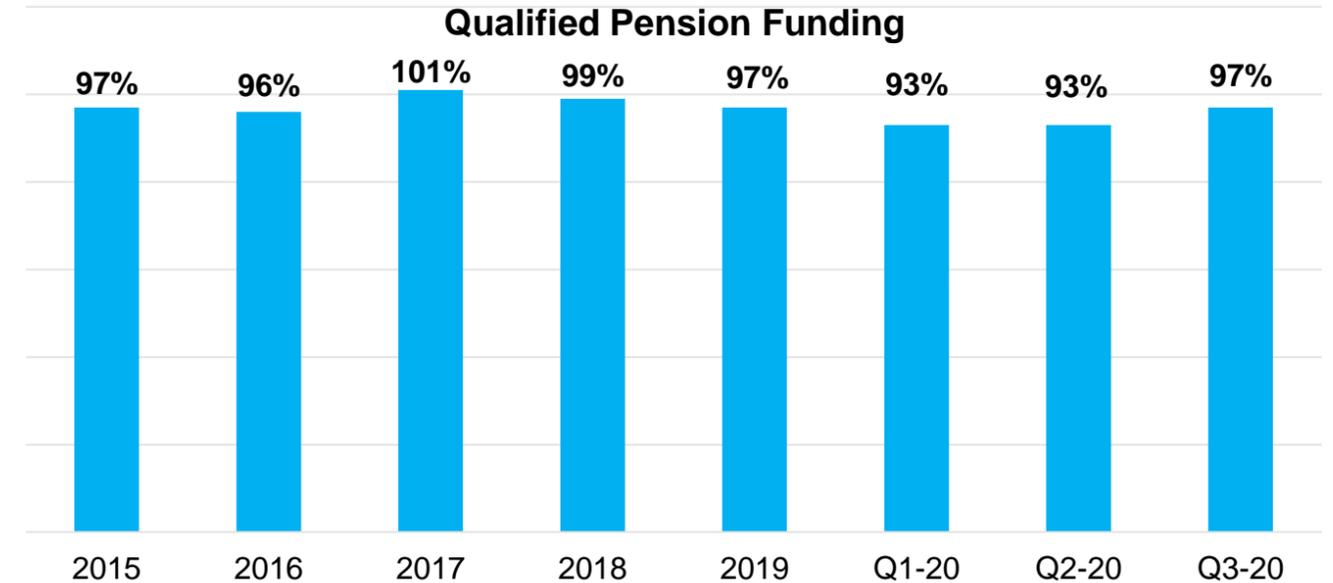
Note: 2020 consists of 9 months weather normalized actual results plus 3 months forecasted values. The 2020 and 2021 comparison may change based on actual 2020 results.

# Pension and OPEB Estimates

ASSUMPTIONS	2020E	2021E
Pension Discount Rate	3.25%	3.29%
OPEB Discount Rate	3.30%	3.29%
Assumed Long Term Rate of Return on Pension Assets	5.75%	5.75%
Assumed Long Term Rate of Return on OPEB Assets	5.50%	5.50%
Pension/OPEB Funding	\$121M	\$127M
Pension/OPEB Cost <sup>1</sup>	-	\$18M
Pension/OPEB Pre-tax Expense <sup>2</sup>	(\$50M)	(\$35M)

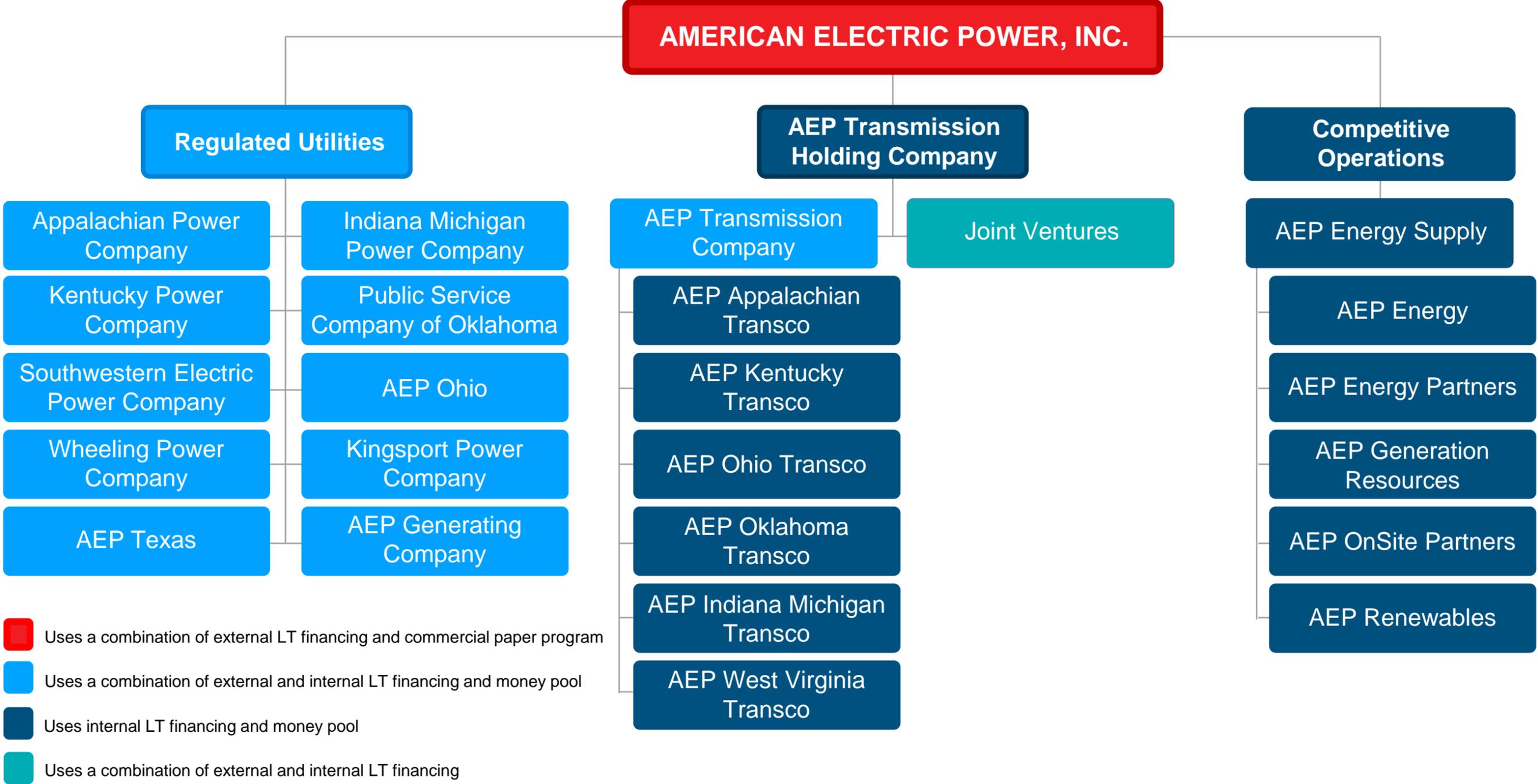
<sup>1</sup> Pre-tax expense and pre-capitalization

<sup>2</sup> Recorded in O&M and Non-Service Cost Components of Net Periodic Benefit Cost on the income statement



- YTD pension and OPEB returns were up at 9.4% and 7.2%, respectively, as modest risk seeking asset returns were coupled with strong fixed income gains. Despite these returns, the funded status of both plans decreased as plan liabilities increased more than plan assets due to a falling discount rate.
- We expect combined pension and OPEB costs (pre-tax and including capitalized portion) to increase from 2020 to 2021 due to a falling discount rate, subject to potential changes in investment results, interest rates and actuarial assumptions.
- Pension expense for regulated subsidiaries is recovered through base rates.

# AEP Operational and Financing Structure



- Uses a combination of external LT financing and commercial paper program
- Uses a combination of external and internal LT financing and money pool
- Uses internal LT financing and money pool
- Uses a combination of external and internal LT financing

Note: Does not represent legal structure

# 2020 Long-Term Debt Financings

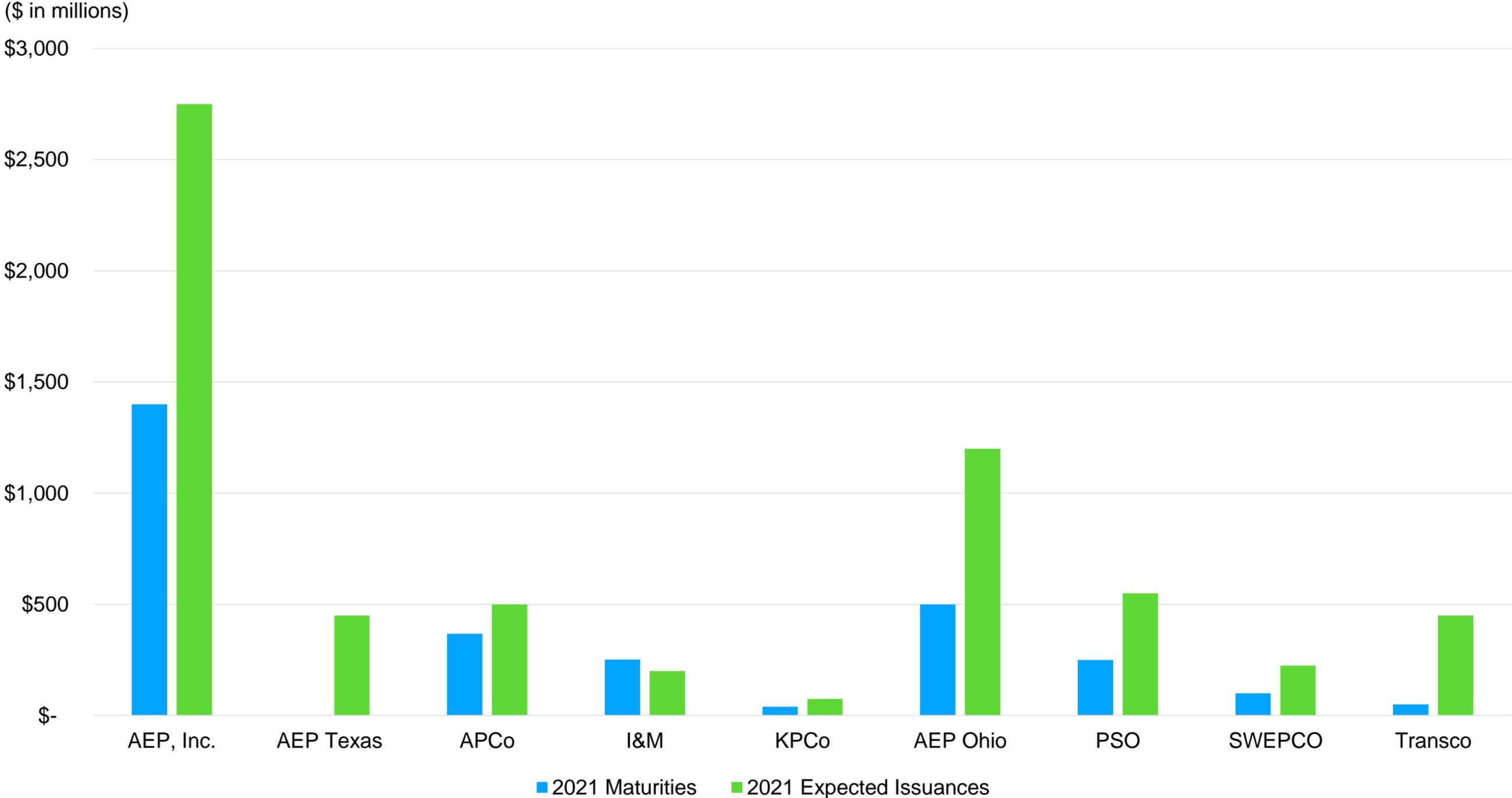
DATE	COMPANY	TYPE	AMOUNT (IN MILLIONS)	RATE	TERM	CREDIT RATINGS (MOODY'S/S&P) <sup>1</sup>
March	AEP, Inc.	Senior Notes	\$400	2.30%	10-Year	Baa1/BBB+
March	AEP, Inc.	Senior Notes	\$400	3.25%	30-Year	Baa1/BBB+
March	KPCo	Term Loan	\$125	Variable	2-Year	N/A
March	AEP Ohio	Senior Notes	\$350	2.60%	10-Year	A2/A-
March	AEP, Inc.	Term Loan	\$1,000	Variable	364-Day	N/A
April	AEP Transco	Senior Notes	\$525	3.65%	30-Year	NA2/A-/A <sup>2</sup>
May	SWEPCO	Term Loan	\$100	Variable	18-Month	N/A
May	APCo	Senior Notes	\$500	3.70%	30-Year	Baa1/A-
June	KPCo	Pollution Control Bond Direct Loan	\$65	2.35%	3-Year	N/A
July	AEP Texas	Senior Notes	\$600	2.10%	10-Year	Baa1/A-
August	AEP, Inc. <sup>3</sup>	Mandatory Convertible Equity Units	\$850	6.13%	3-Year	Baa3/BBB
September	AEP Texas	Pollution Control Bond Remarketing	\$60	0.90%	3-Year	Baa2/A-/A-
September	APCo	Pollution Control Bond Remarketing	\$65	1.00%	3-Year	Baa1/A-/A-

<sup>1</sup> Credit ratings assigned to the bonds at time of issuance.

<sup>2</sup> AEP Transmission Company, LLC also received an A rating from Fitch for the April senior notes issuance. AEP Texas and APCo also received A- ratings from Fitch for their respective September pollution control bond remarketings.

<sup>3</sup> Each corporate unit represents a 1/20 undivided beneficial ownership interest in \$1,000 principal amount of AEP's 1.30% Junior Subordinated Notes due in 2025 and a forward equity purchase contract which settles after three years in 2023. The Junior Subordinated Notes are expected to be remarketed in 2023, at which time the interest rate will reset at the then current market rate. The interest rate for the forward equity purchase contract which settles in 2023 is 4.825% (not tax deductible).

# 2021 Debt Issuance and Maturities Overview



# Credit Ratings

## CURRENT RATINGS FOR AEP, INC. & SUBSIDIARIES (as of 09/30/2020)

Company	Moody's		S&P		Fitch	
	Senior Unsecured	Outlook	Senior Unsecured	Outlook	Senior Unsecured	Outlook
American Electric Power Company Inc.	Baa2	S	BBB+	S	BBB+	S
AEP, Inc. Short Term Rating	P2	S	A2	S	F2	S
AEP Texas Inc.	Baa2	S	A-	S	A-	S
AEP Transmission Company, LLC	A2	S	A-	S	A	S
Appalachian Power Company <sup>1</sup>	Baa1	S	A-	S	A-	S
Indiana Michigan Power Company <sup>1</sup>	A3	S	A-	S	A-	S
Kentucky Power Company	Baa3	S	A-	S	BBB+	S
AEP Ohio	A3	S	A-	S	A	S
Public Service Company of Oklahoma	Baa1	S	A-	S	A-	S
Southwestern Electric Power Company	Baa2	S	A-	S	BBB+	S
Transource Energy <sup>2</sup>	A2	S	NR	NR	NR	NR

<sup>1</sup> In conjunction with the unenhanced VRDN remarketings, APCo and I&M both received short term credit ratings of A-2/P2 from S&P and Moody's, respectively.

<sup>2</sup> NR stands for Not Rated

# ENVIRONMENTAL, SOCIAL AND GOVERNANCE

- **Delivering Clean Energy Resources**
- **Emission Reduction Goals**
- **Investment in Environmental Controls**
- **Dramatic Reduction in Emissions**
- **Electrifying Our Fleet**
- **Employees and Communities**
- **Energizing the Talent Pipeline**
- **Supplier Diversity**
- **Board and Leadership Composition**

# Delivering Clean Energy Resources - Environmental

## AEP's October 1, 2020 Renewable Portfolio (in MW)

HYDRO, WIND, SOLAR & PUMPED STORAGE	OWNED MW	PPA MW	TOTAL MW
AEP Ohio	-	209	<b>209</b>
Appalachian Power Company	785	575	<b>1,360</b>
Indiana Michigan Power Company	36	450	<b>486</b>
Public Service Company of Oklahoma	-	1,137	<b>1,137</b>
Southwestern Electric Power Company	-	469	<b>469</b>
Competitive Wind, Solar & Hydro	1,567	101	<b>1,668</b>
<b>TOTAL</b>	<b>2,388</b>	<b>2,941</b>	<b>5,329</b>



APPROXIMATELY

# 11,900 MW

OF RENEWABLE GENERATION INTERCONNECTED  
ACROSS THE U.S. VIA AEP'S TRANSMISSION  
SYSTEM TODAY

# Emission Reduction Goals - Environmental

## AEP's Carbon Emission Reduction Goals

**70%** by 2030  
**80%** by 2050<sup>1</sup>  
(both from a 2000 baseline)

### Strategy to Achieve

- Investments in renewable energy within and outside of our traditional service territory
- Technology deployment (e.g., energy storage)
- Modernization of the grid with significant investments in transmission and distribution
- Increased use of natural gas
- Optimization of our existing generating fleet
- Electrification

<sup>1</sup> Aspiration is net-zero emissions

## AEP's Environmental, Social and Governance (ESG) Reporting:

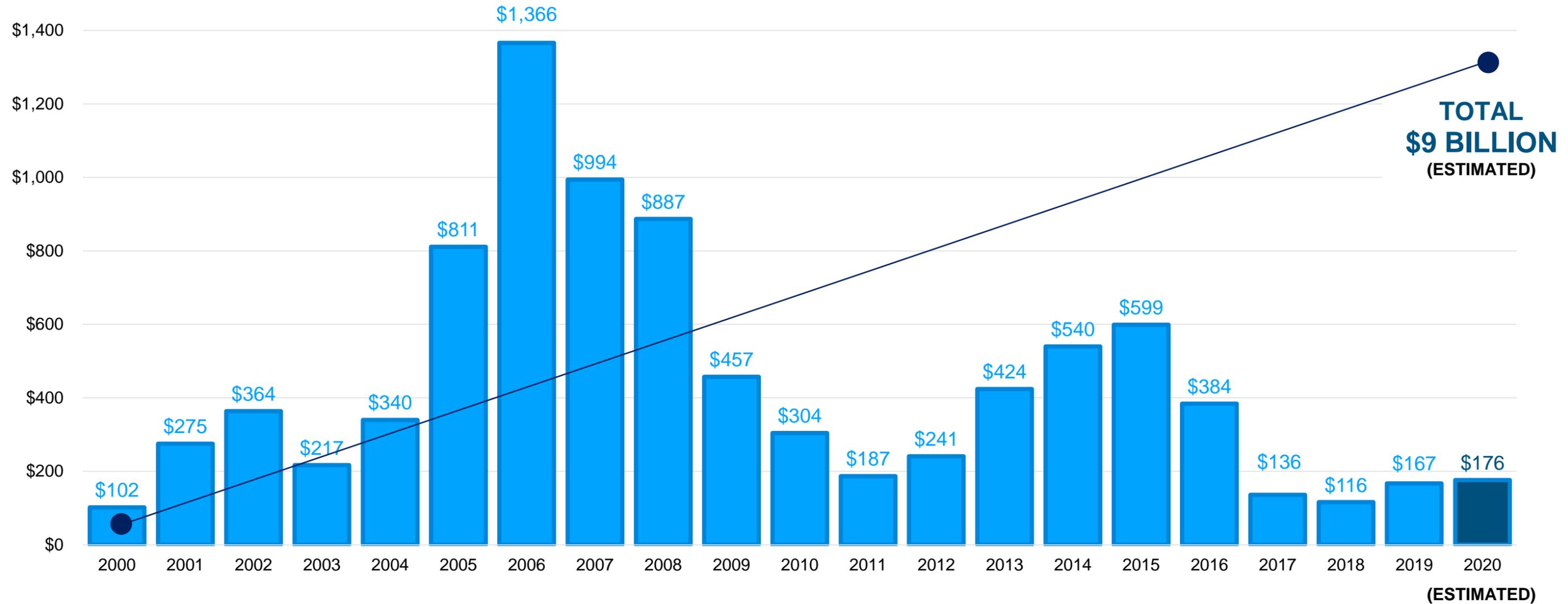
- Corporate Accountability Report
- Strategic Vision for a Clean Energy Future
- EEI ESG Sustainability Report
- Sustainability Accounting Standards Board (SASB)
- Task Force on Climate-related Financial Disclosure (TCFD)
- CDP Survey Responses
- GRI Report
- AEP also responds to investor-related surveys, including MSCI and Sustainalytics



# Largest Investment In Environmental Controls - Environmental

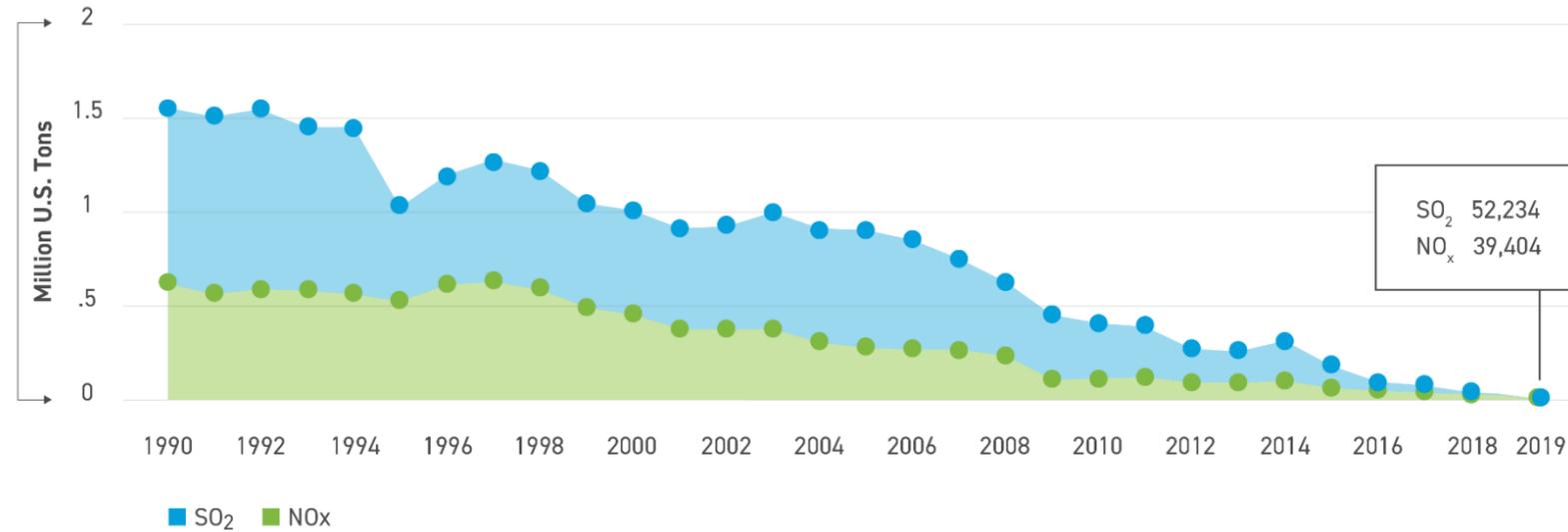
## INVESTMENT IN ENVIRONMENTAL CONTROLS

\$ in millions



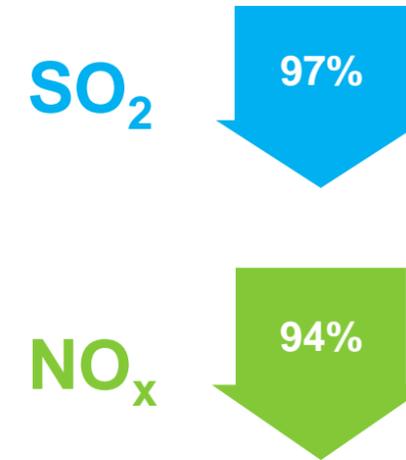
# Dramatic Reductions in Emissions - Environmental

## TOTAL AEP SYSTEM NO<sub>x</sub> & SO<sub>2</sub> EMISSIONS

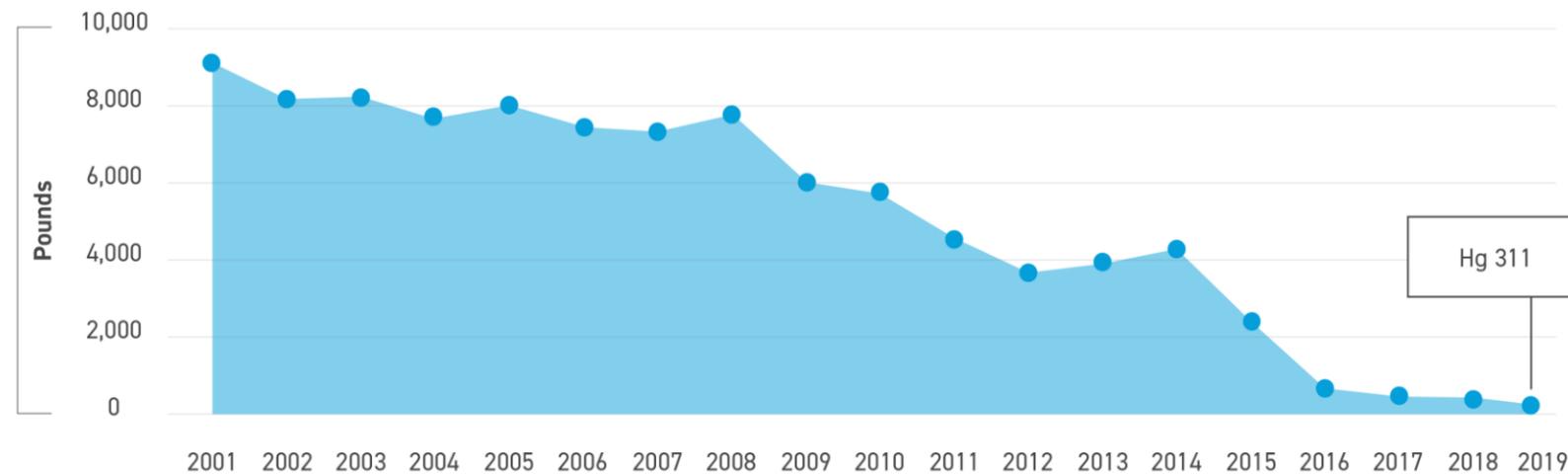


Direct annual emissions of SO<sub>2</sub> and NO<sub>x</sub> from AEP's ownership share of generation as reported under Title IV of the 1990 Clean Air Act.

1990-2019  
ACTUAL



## TOTAL AEP SYSTEM MERCURY AIR EMISSIONS



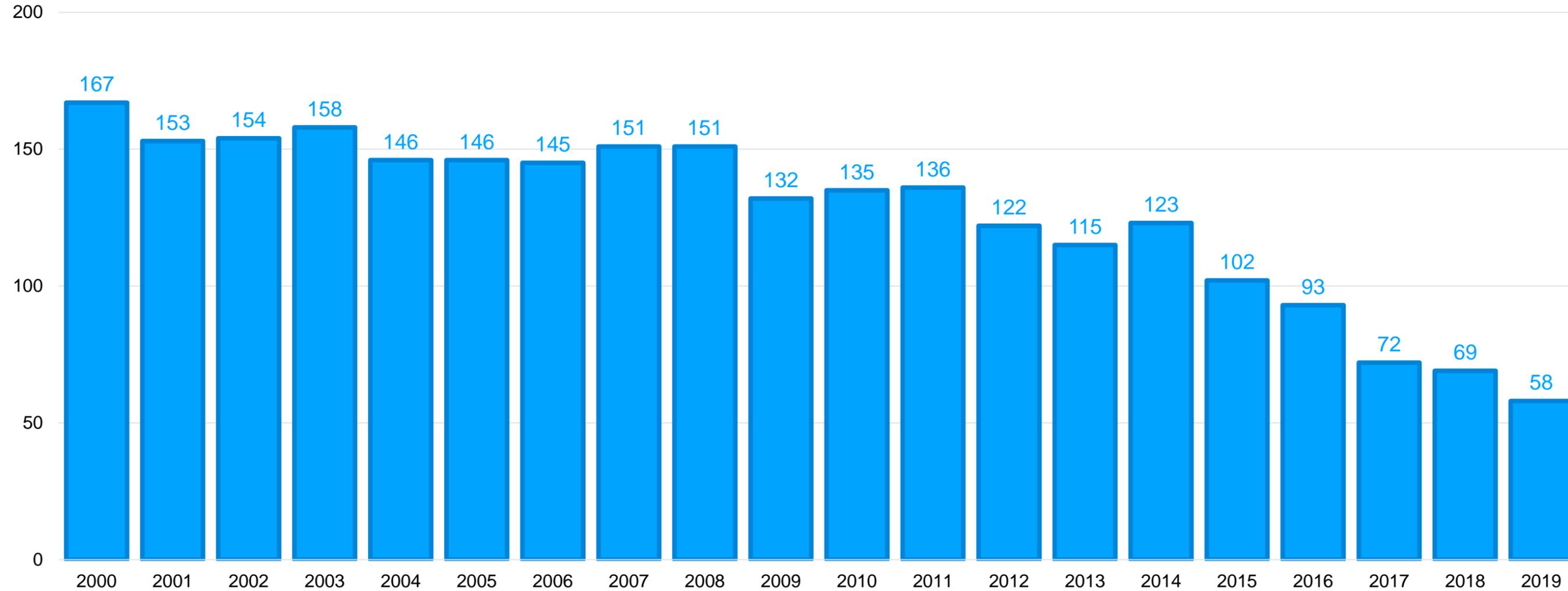
AEP equity share of mercury air emissions from Toxic Release Inventory reporting. 2019 was estimated with MATS program emission monitors.

2001-2019  
ACTUAL



# Dramatic Reduction in Emissions - Environmental

TOTAL AEP SYSTEM – ANNUAL CO<sub>2</sub> EMISSIONS in million metric tons



CO<sub>2</sub>

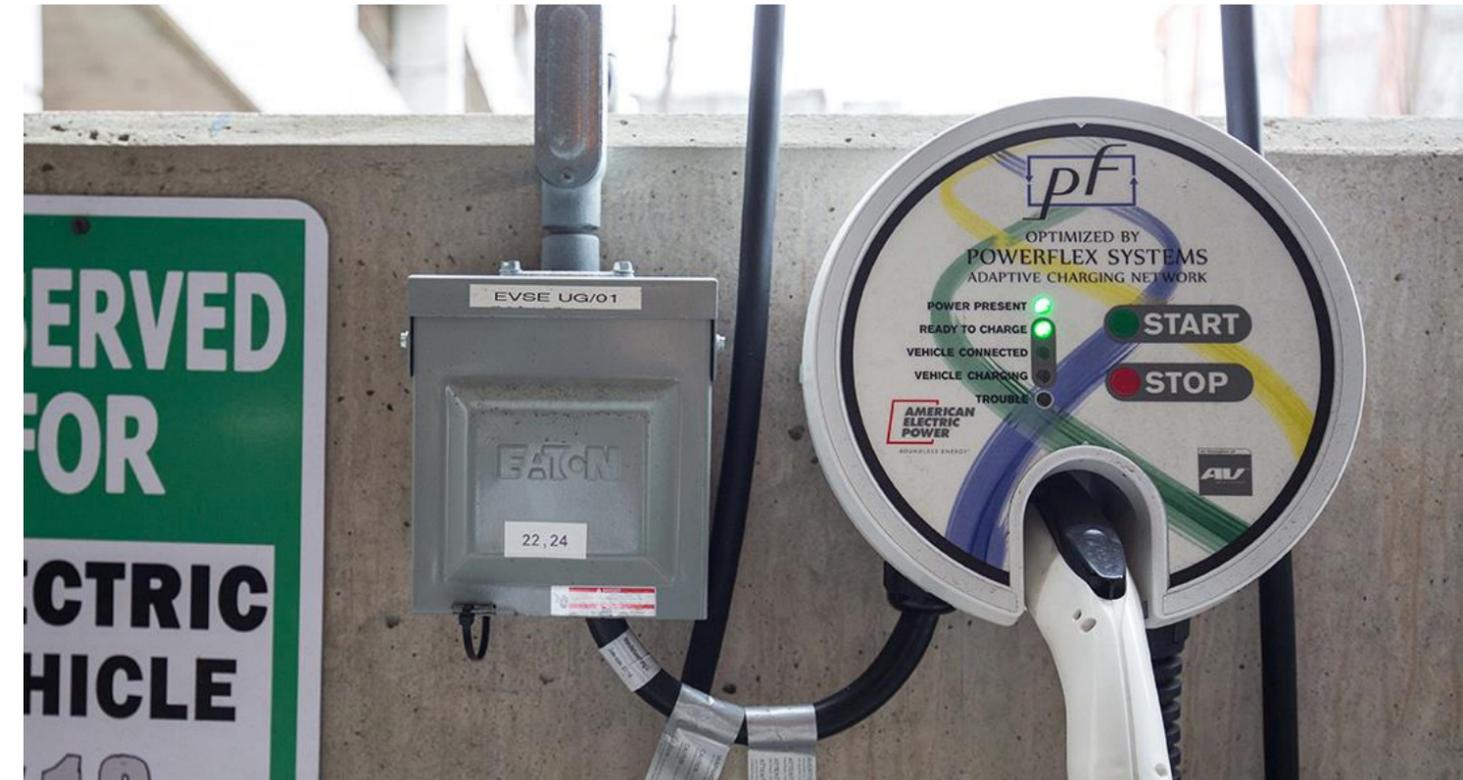
2000-2019  
ACTUAL

65%

# Electrifying Our Fleet - Environmental

- In 2020, AEP set a new goal to replace 100% of its 2,300 cars and light-duty trucks with EV alternatives by 2030.
- By converting medium- and heavy-duty vehicles as electric or hybrid models become available, AEP will electrify 40% of its entire 8,000-vehicle, on-road fleet in less than 10 years.
- The switch to EVs is estimated to save more than 10 million gallons of fuel, amounting to a \$40 million reduction in fuel costs over the life of the vehicles.

AEP is leading by example and encouraging other companies with large fleets to consider EVs or hybrid models, while promoting EV programs and incentives to customers.



# Committed to Our Employees and Communities - Social



#1 IN UTILITIES

Forbes 2021

**DEI** BEST PLACE TO WORK FOR DISABILITY INCLUSION 2020<sup>SM</sup>  
100% DISABILITY EQUALITY INDEX



**FORTUNE**  
WORLD'S MOST  
**ADMIRED**  
COMPANIES<sup>®</sup> 2020

# Energizing the Talent Pipeline - Social

## Boundless Energy Career Wheels “Steering Workforce Development Efforts”

### Workforce Development

Expanding diverse community connections, fostering employee creativity and adopting artificial intelligence in the workplace

### Trade & Vocational

Assisting individuals in acquiring the skills needed to be successful in post-secondary education, apprenticeships and AEP employment

### Education

Training, developing and preparing individuals academically, technically and professionally for positions within AEP



### Community Engagement

Proactively improving transparency and educating our customers to build better communities

### Employee Development

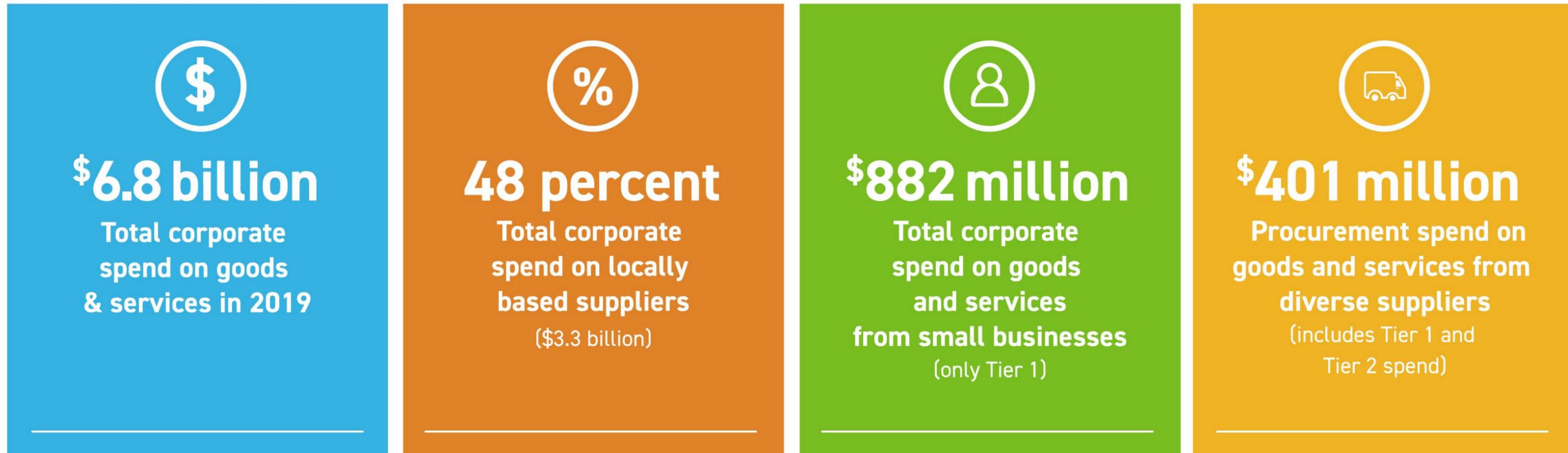
Experience with a wide variety of business units and leaders throughout the company by gaining cross exposure and visiting locations of technical interest outside of an employee's business unit

### Diversity & Inclusion

Committed to a culture where differences are valued and recognized as a significant positive influence on AEP's ability to serve our employees, customers, suppliers and other key stakeholders

# Dedicated to Supplier Diversity - Social

## AEP'S 2019 DIVERSE SPEND PROFILE



# Board and Leadership Composition - Governance

## BOARD COMPOSITION

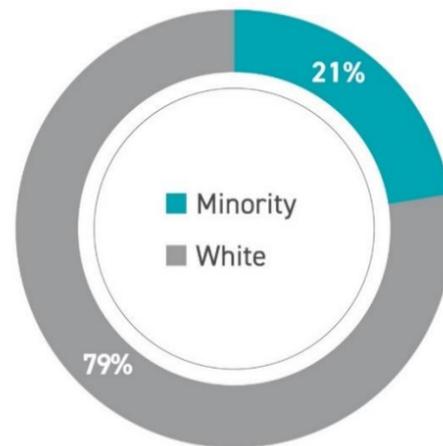
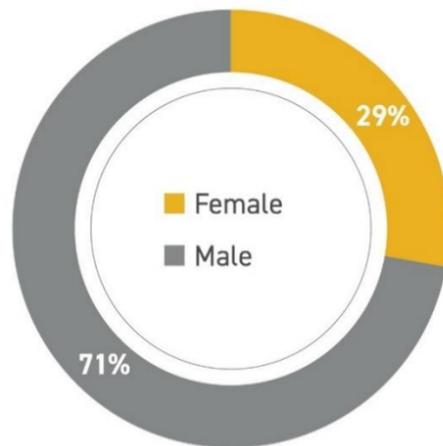
**7 YRS**  
**AVERAGE**  
**TENURE**

**92%**  
**INDEPENDENT**

(12 of 13 directors  
are independent)

**38%**  
**DIVERSE**

### 2020 LEADERSHIP DIVERSITY



Includes AEP's Board of Directors, AEP Leadership and Regional Utility Presidents as of April 30, 2020.

# TRANSMISSION TRANSFORMATION

- **AEP Transmission Strategy**
- **Five-Year Capital Plan**
- **Investments in Asset Renewal**
- **Stable Cost Recovery Framework**
- **Transmission Customer and Shareholder Value**
- **Enabling an Efficient, Reliable Clean Future**
- **Transmission's Role in a Clean Energy Future**
- **Competitive and Off-footprint Transmission**
- **Holdco Legal Entity Structure**



# AEP Transmission Strategy

**AEP Transmission's strategy is to modernize and enhance the reliability, security and efficiency of the transmission network to provide our customers the grid of the future**

**Diverse 5-year capital investment portfolio of \$16.1 billion across AEP's broad geographic footprint of 15 states and 4 regional energy markets**

**Delivering significant customer benefits:**

- ✓ **Higher reliability & resilience**
- ✓ **Lower energy costs**
- ✓ **Enabling public policies and customer demand for clean energy**
- ✓ **Economic development**

**Disciplined execution:**

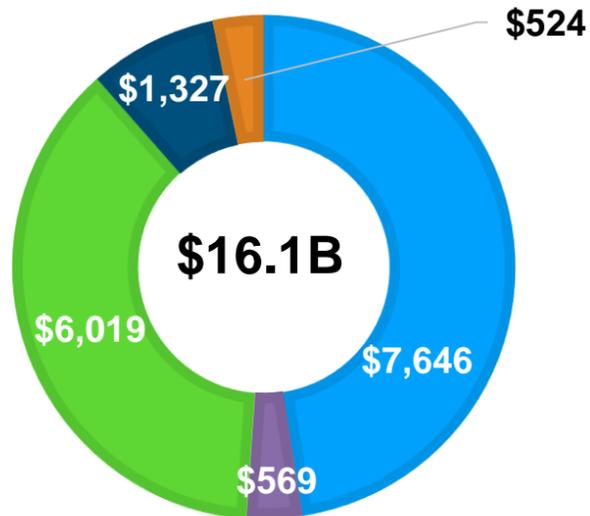
- **Low cost, high value solutions**
- **High speed delivery**
- **Technological innovation**

**STABLE COST RECOVERY FRAMEWORK**

**DELIVER VALUE TO CUSTOMERS & PREDICTABLE EARNINGS GROWTH**

# Five-Year Transmission Capital Plan

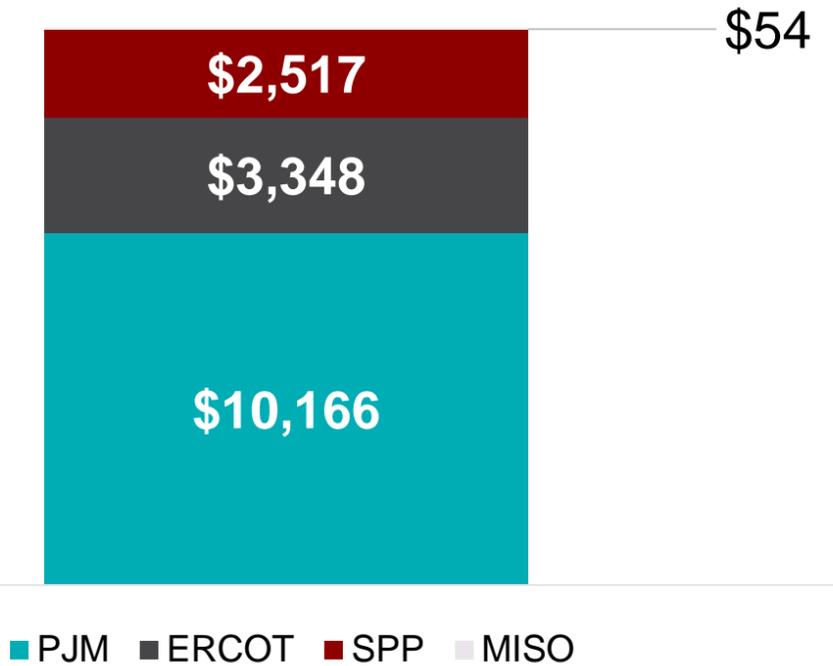
2021-2025 TRANSMISSION INVESTMENT BY CATEGORY (\$ MILLIONS)



- Asset Replacement
- Local Reliability
- Telecommunication
- Customer Service
- RTO Driven

**\$16.1 Billion Investment Diversified In Four RTOs**

2021-2025 TRANSMISSION INVESTMENT BY RTO (\$ MILLIONS)

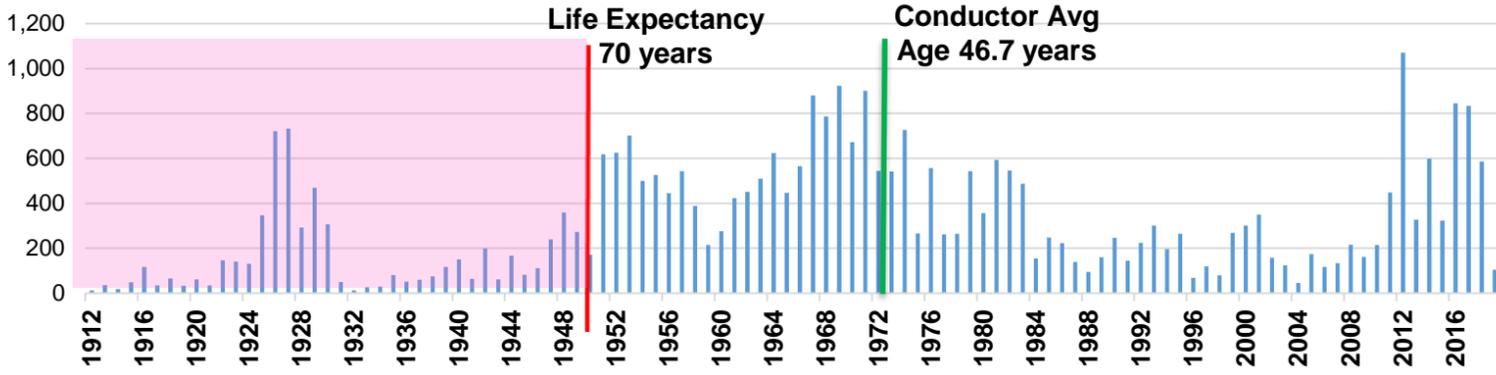


## INVESTMENT CATEGORIES

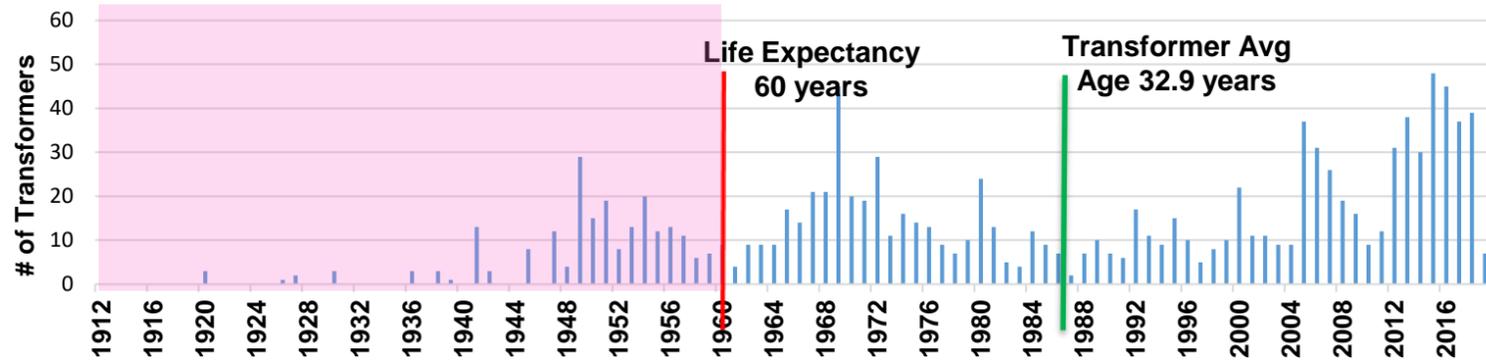
	ASSET REPLACEMENT	LOCAL RELIABILITY	RTO DRIVEN	CUSTOMER SERVICE	TELECOM
<b>DRIVERS</b>	<ul style="list-style-type: none"> <li>Replacement and rehabilitation investments based on age and performance to reduce customer outages and interruption times</li> </ul>	<ul style="list-style-type: none"> <li>Upgrades based on AEP standards to address thermal and voltage violations, and contingency conditions</li> </ul>	<ul style="list-style-type: none"> <li>Upgrades needed to address RTO standards related to thermal voltage overloads and contingency conditions</li> </ul>	<ul style="list-style-type: none"> <li>Upgrades to connect new customers and enhanced service requests</li> <li>Facilitates local economic development</li> </ul>	<ul style="list-style-type: none"> <li>Upgrades to support equipment monitoring, cyber-security requirements, and efficient grid operations</li> </ul>

# AEP's Investments in Asset Renewal Strengthen and Enable the Grid of the Future

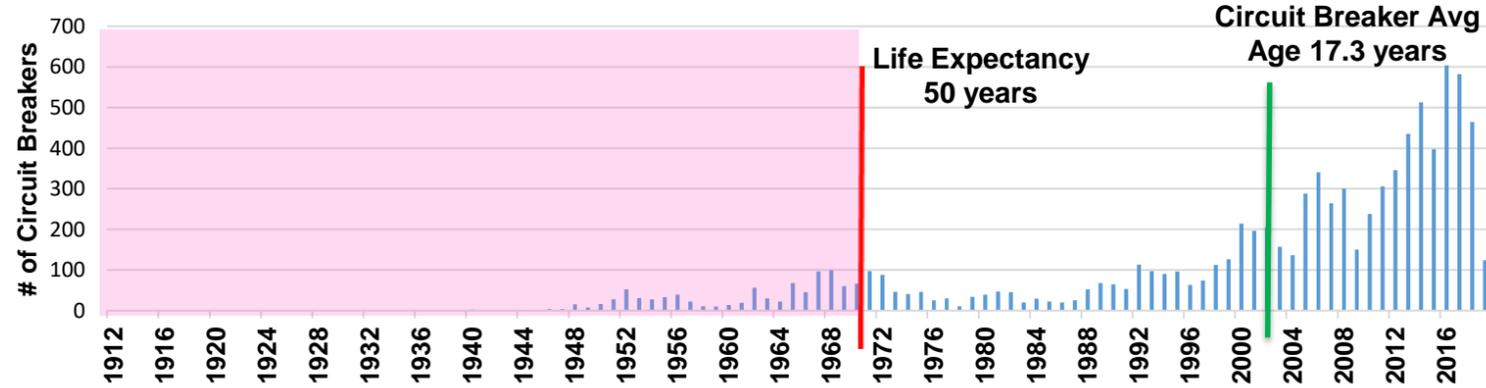
AEP T-Line Age Profile - (Line Mile Age based on oldest conductor age)



AEP Transmission Transformer Age Profile



AEP Circuit Breaker Age Profile



Beyond Life Expectancy Range

- **\$2.2 billion** of annual on-system capital investment is required to replace and enhance all assets beyond life expectancy over the next 10 years.
- Asset renewal projects are prioritized based on performance, condition and risk.

AEP Transmission Assets	Line Miles	Transformers	Circuit Breakers
Life Expectancy (Years)	70	60	50
Current Quantity Over Life Expectancy	5,959	209	808
Quantity That Will Exceed Life Expectancy in Next 10 Years	4,732	158	473
Total Replacement Need Over Next 10 Years	10,691	367	1,281
% of AEP System	31%	30%	14%
<b>Average Age (years)</b>	<b>Line Miles</b>	<b>Transformers</b>	<b>Circuit Breakers</b>
2016 Year-End	52.5	36.1	22.9
2019 Year-End	46.7	32.9	17.3

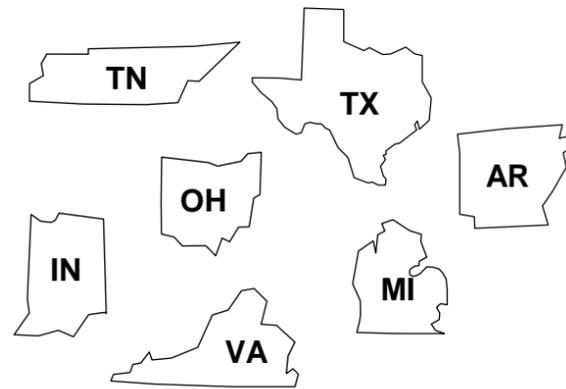
# Stable Cost Recovery Framework

**Stable and transparent wholesale cost recovery for transmission**

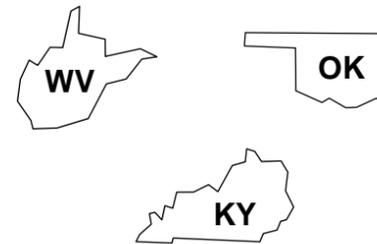
	<b>PJM</b>	<b>SPP</b>	<b>ERCOT</b>
<b>ROE</b>	9.85% Base + 0.50% RTO adder	10.0% Base ROE + 0.50% RTO adder	9.4%
<b>Forward Looking Rates</b>	Yes	Yes	Allowed two updates per year (not forward looking)
<b>Equity Structure</b>	Capped at 55%	No Cap	Capped at 42.5%
<b>Rate Approval Date</b>	May 2019	June 2019	April 2020

**~93% of transmission capital investment is recovered through state tracker/rider mechanisms**

**FULL TRACKER/RIDER (T/R) RECOVERY**



**PARTIAL (T/R) RECOVERY**



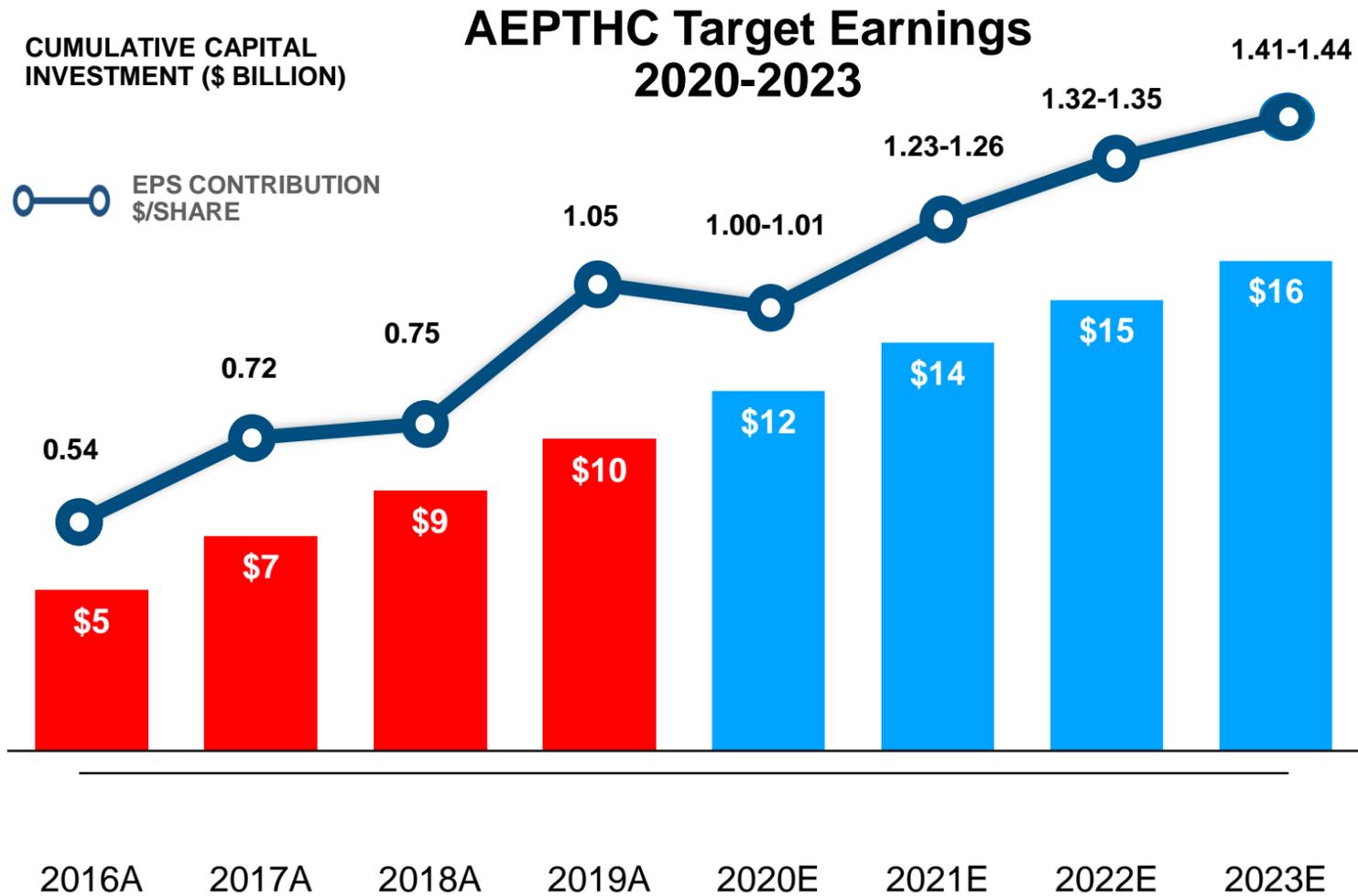
**PENDING/FORMULA OR BASE CASE**



Note: Arkansas retail formula not currently being utilized

# Delivering Significant Customer and Shareholder Value

## Shareholder Benefits



**AEPTHC's 2016 – 2023 EPS growth projected at a CAGR of 14.8%**

## Customer Benefits

**Reducing customer costs**

Enabling efficient economic dispatch of generation in each of our regions

**Driving down emissions**

Facilitating the fast and reliable interconnection of renewables to the grid to meet customer demand and public policy goals for clean energy

**Improving reliability and security**

Keeping the economy productive and connected by powering communications networks and electronics with reduced outages and a storm-hardened system

**Creating economic benefits**

Supporting economic development through construction projects that deliver community benefits including:

- ✓ Jobs
- ✓ State & local taxes
- ✓ Economic stimulus

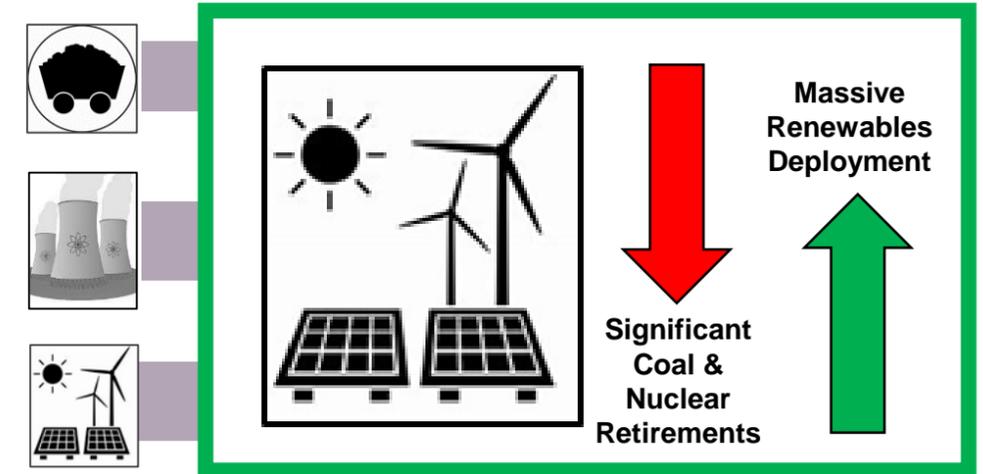
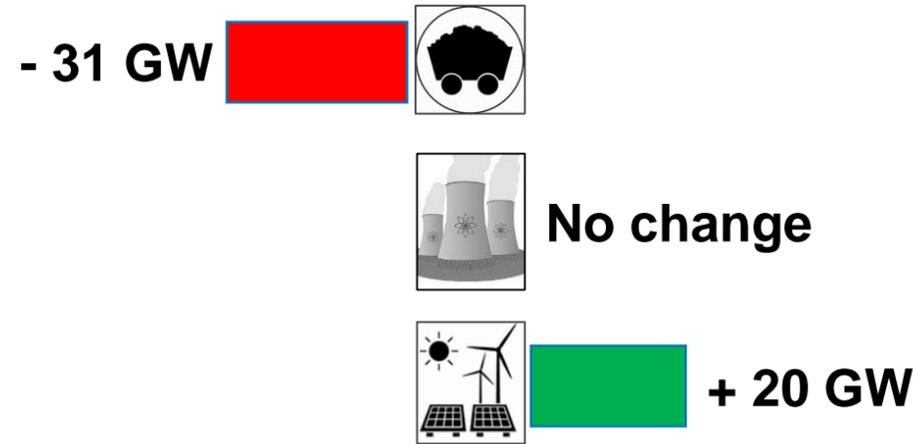
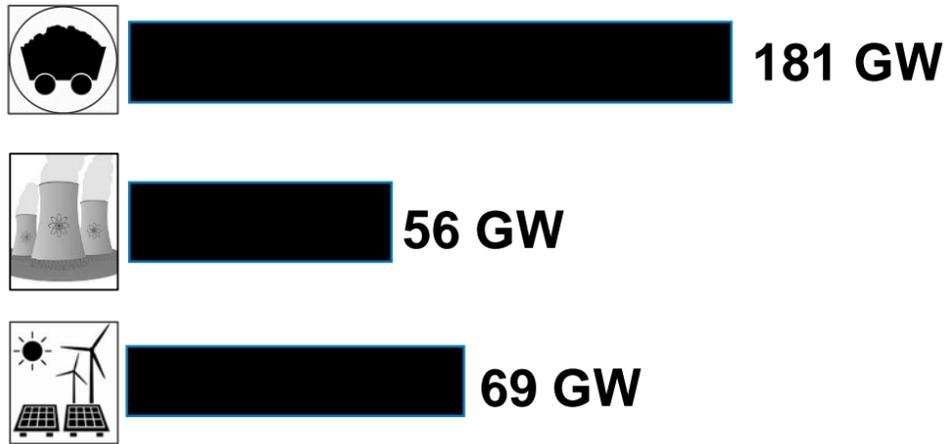
# Enabling an Efficient, Reliable Clean Future

Energy Supply Drivers

**2016**

**2019**

**Where We Are Headed**



Nameplate coal, nuclear and renewable generation capacity of PJM, SPP, ERCOT and MISO

Represents changes in installed nameplate generation capacity since 2016

**Clean Energy Future - 2050**

AEP Transmission Drivers

**Average age of AEP transmission assets:**

Lines: 53 yrs  
Transformers: 36 yrs  
Circuit Breakers: 23 yrs



~20% of fiber-connected substations 69kV and above

**Average age of AEP transmission assets:**

Lines: 47 yrs  
Transformers: 33 yrs  
Circuit Breakers: 17 yrs



~44% of fiber-connected substations 69kV and above

12,000 MW of renewables connected to AEP transmission system

**AEP is Building the Grid of the Future and Enabling the Generation Shift to Clean Resources**

# Well Positioned to Capture Potential New Transmission Investment Necessary to Link Clean Resource Rich Areas to Customers

## AEP's Competitive Advantage

Scale and Purchasing Power

☑ Largest transmission owner in the U.S.

Investment Opportunities In Grid Of Future

☑ Robust asset renewal program with technology upgrades

Strategically Located

☑ Geographically diverse and located on multiple market seams

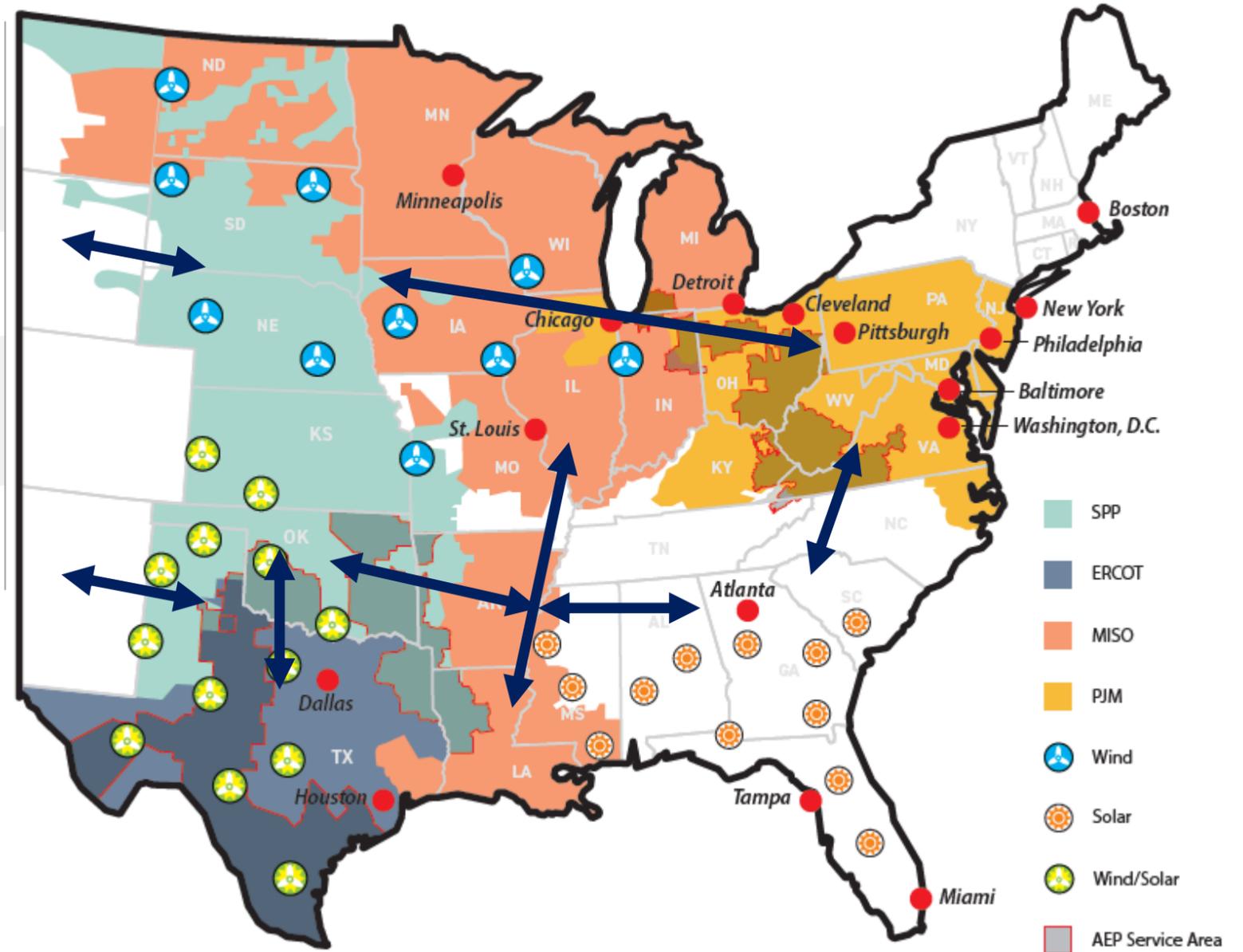
Established Competitive Entity With Proven Track Record

☑ Transource is active in four RTOs

Culture Of Innovation

☑ Savings to customers and advantage in competitive solutions

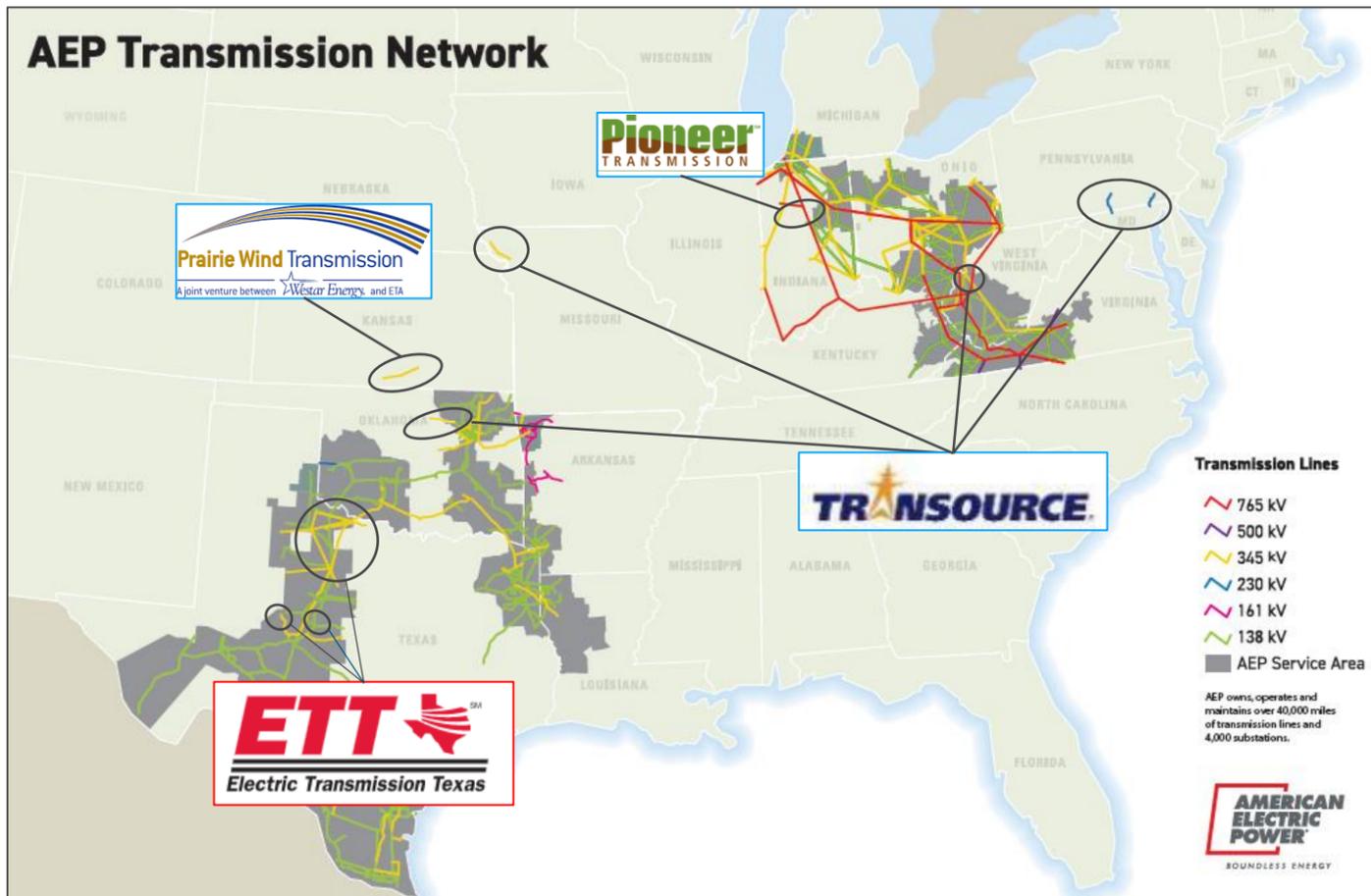
Increasing flows across regional seams will be critical to a cost-effective and efficient clean energy future



Capturing these new investments provide upside to current investment plan

# Competitive & Off-footprint Transmission Investments

**AEP is the Largest Developer of Competitive & Off-footprint Transmission in the U.S. and is Well Positioned to Provide Innovative Solutions for Future Grid Investment Opportunities**

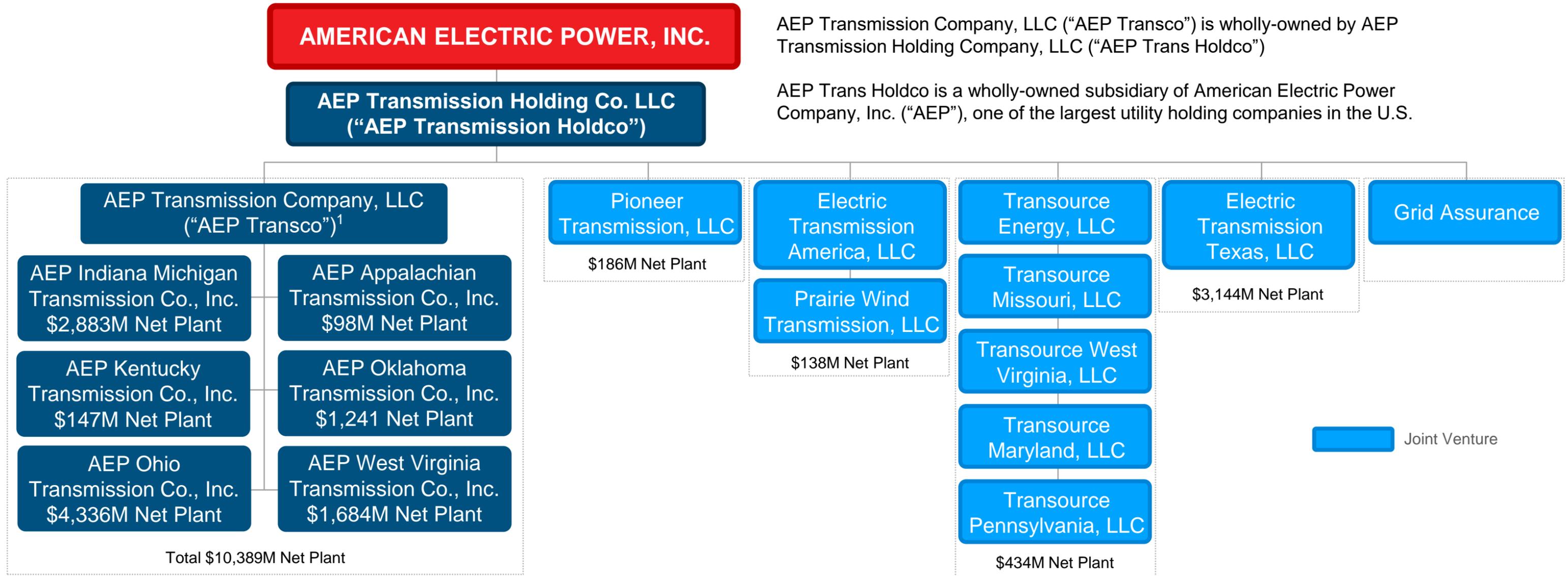


AEP Joint Venture Company	Total Competitive and Off-footprint Investment (\$ in millions)	AEP Ownership (\$ in millions)	ROE & Capital Structure (Debt/Equity)
ETT <sup>1</sup>	\$ 1,806	\$ 903	9.6% ROE 60% / 40%
Transource <sup>2</sup>	\$ 776	\$ 671	10.75% ROE 46% / 54%
Prairie Wind	\$ 158	\$ 40	12.8% ROE 45% / 55%
Pioneer	\$ 191	\$ 96	10.5% ROE 50% / 50%
<b>Total</b>	<b>\$ 2,931</b>	<b>\$ 1,710</b>	

<sup>1</sup> ETT investment only includes competitive and off-footprint transmission investment and does not include the legacy AEP investments contributed to the venture

<sup>2</sup> Transource investment includes the total estimated project capex for the awarded projects in PA, MD and OK; Transource ROE and capital structure reflect weighted blend of the operating companies

# AEP Transmission Holdco Legal Entity Structure



AEP Transmission Company, LLC ("AEP Transco") is wholly-owned by AEP Transmission Holding Company, LLC ("AEP Trans Holdco")

AEP Trans Holdco is a wholly-owned subsidiary of American Electric Power Company, Inc. ("AEP"), one of the largest utility holding companies in the U.S.

Joint Venture net plant balances are inclusive of non-affiliate share

Net plant totals are as of September 30, 2020, except Pioneer and Prairie Wind, which are as of August 31, 2020

<sup>1</sup> Debt issued at AEP Transco level for transmission companies

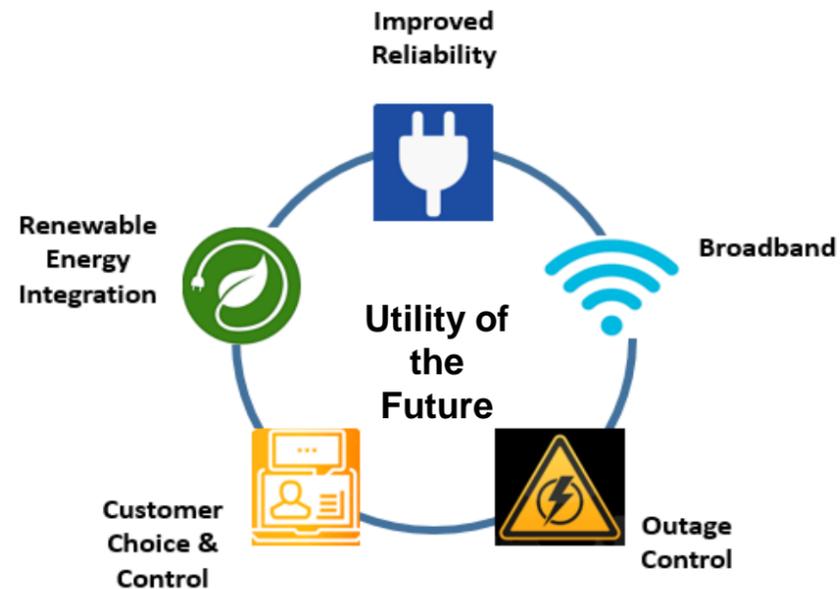
# UTILITY TRANSFORMATION

- **Expanded Core and Future Investments**
- **Robust Distribution Capital Expenditure Opportunities**
- **Key Legislative Initiatives**
- **Technology and Innovation**



# Expanded Core and Future Investments

- INCREASE CORE INVESTMENTS IN SYSTEM RELIABILITY
- FULLY ADVANCE METERING INFRASTRUCTURE (AMI) AND DISTRIBUTION AUTOMATION CIRCUIT RECONFIGURATION (DACR) PENETRATION
- LED STREET LIGHT MODERNIZATION
- PROMOTE AN INTERACTIVE, MODERN AND EFFICIENT GRID
- ADAPT GRID TO INTEGRATE MORE DIVERSE ENERGY SOURCES
- BROADBAND AND BEHIND THE METER TECHNOLOGIES TO ALIGN WITH CHANGING CUSTOMER EXPECTATIONS
- ADVANCE ELECTRIFICATION



Positioning to align future investments with customer preferences

Advancing policies and regulatory mechanisms that support timely recovery and diversification of investments

ASSET RENEWAL + GRID MODERNIZATION + NEW PRODUCT LINES = DISTRIBUTION INVESTMENT OPPORTUNITY

# Robust Distribution Capital Expenditure Opportunities

Capital Investments in Distribution Modernization are expected to be \$8 to \$10 billion over the next five years

Distribution Base Investment	<p><b>\$4,207M</b> Incremental \$463 million</p>	Distribution investments for new service, capacity additions, base material and storms
Distribution Grid Resiliency	<p><b>\$3,429M</b> Incremental \$604 million</p>	Asset renewal and reliability investments including pole, conductor, cutout, and station transformer and breaker replacements
Distribution Automation and Technology	<p><b>\$1,124M</b> Incremental \$146 million</p>	Implementation of automated technology including distribution supervisory control and data acquisition, smart switches and reclosers, volt var optimization and sensors. Investments include telecommunication and system components
Advance Metering Infrastructure	<p><b>\$503M</b> Incremental \$259 million</p>	Advanced metering technology for the remaining AEP customers
Distribution – Distributed Energy Resources	<p><b>\$63M</b> Incremental \$53 million</p>	AEP owned energy storage and micro-grid projects connected at distribution voltages
Rural Broadband	<p><b>\$571M</b> Incremental \$260 million</p>	Investment in fiber assets to provide middle mile broadband to rural communities and for company use
Green Technology	<p><b>\$297M</b> Incremental \$231 million</p>	Investments in LED outdoor and streetlights and electric vehicle charging infrastructure, ownership of charging stations if allowed

**AEP is committed to making significant grid modernization investments that create win-win solutions for both our customers and our communities**

Key: In budget Incremental Opportunities

# Key Legislative Initiatives

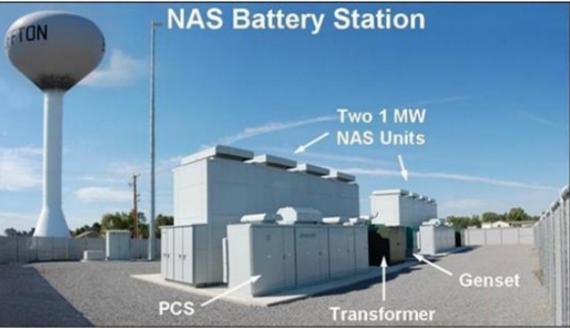
- **Ohio Broadband Deployment (HB13)** – Promotes broadband investment through establishment of residential broadband expansion program.
- **Ohio Bilateral Contracts Bill (HB6)** – Repeal and replace discussions continue; AEP is fully engaged in discussions with legislators and other stakeholders in order to protect customers.
- **Indiana** - 21st Century Energy Policy Development Task Force continues its two-year study of energy policy generally focused around reliability and affordability in Indiana. Recommendations from the legislative Task Force are expected to be submitted for future consideration by December 1, 2020.
- **West Virginia Solar (SB583)** – Allows APCo to build up to 200 MW of solar generation in up to 50 MW increments.
- **Virginia Clean Economy Act (SB851/HB1526)** – Establishes a timeline for electric utilities to attain zero-emissions, creates a mandatory renewable portfolio standard, creates mandatory energy efficiency targets, expands purchase power agreement programs, establishes a percentage of income payment program (PIPP) program and increases net metering program caps.
- **Texas Broadband** – AEP Texas and SWEPCO are working with industry leaders to address broadband needs in rural Texas.

# Technology and Innovation

AEP IS AN INDUSTRY LEADER IN DEPLOYING CUTTING-EDGE TECHNOLOGY AND INNOVATIVE SOLUTIONS

## Energy Storage & MicroGrids

Currently deploying energy storage solutions such as the 500 KW / 1,000 KWh battery at the Columbus Zoo Microgrid Project



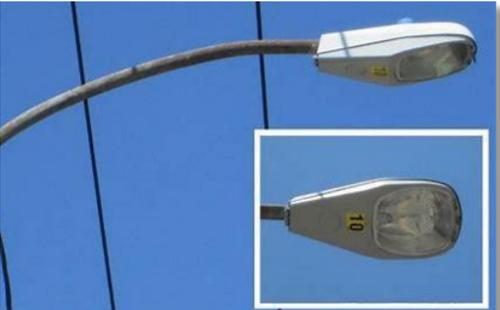
## Electric Vehicles

Offering customer rebate programs and off-peak tariffs to promote EV ownership



## LED Lighting

Implementing LED street lighting to meet customer demand and improve customer experience



## Indoor Agriculture

Exploring innovative solutions at several Operating Companies to promote a sustainable future



## Renewables

Exploring innovative solutions at several Operating Companies to promote a sustainable future



## Broadband

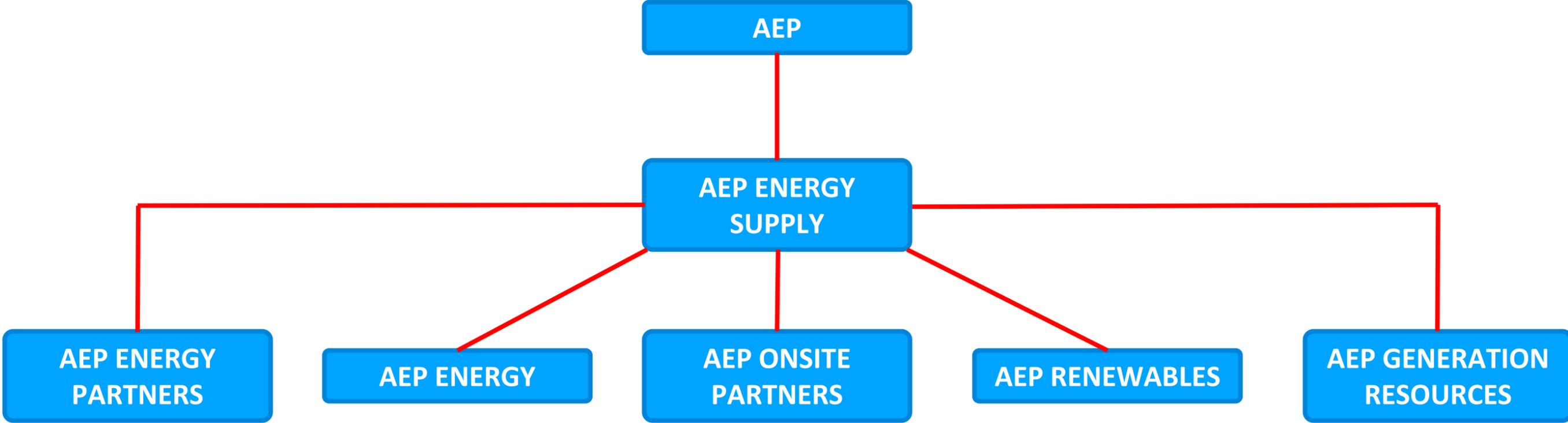
Deploying pilot programs in rural service territory; Promoting broadband programs in regulatory and legislative proceedings



# COMPETITIVE BUSINESS

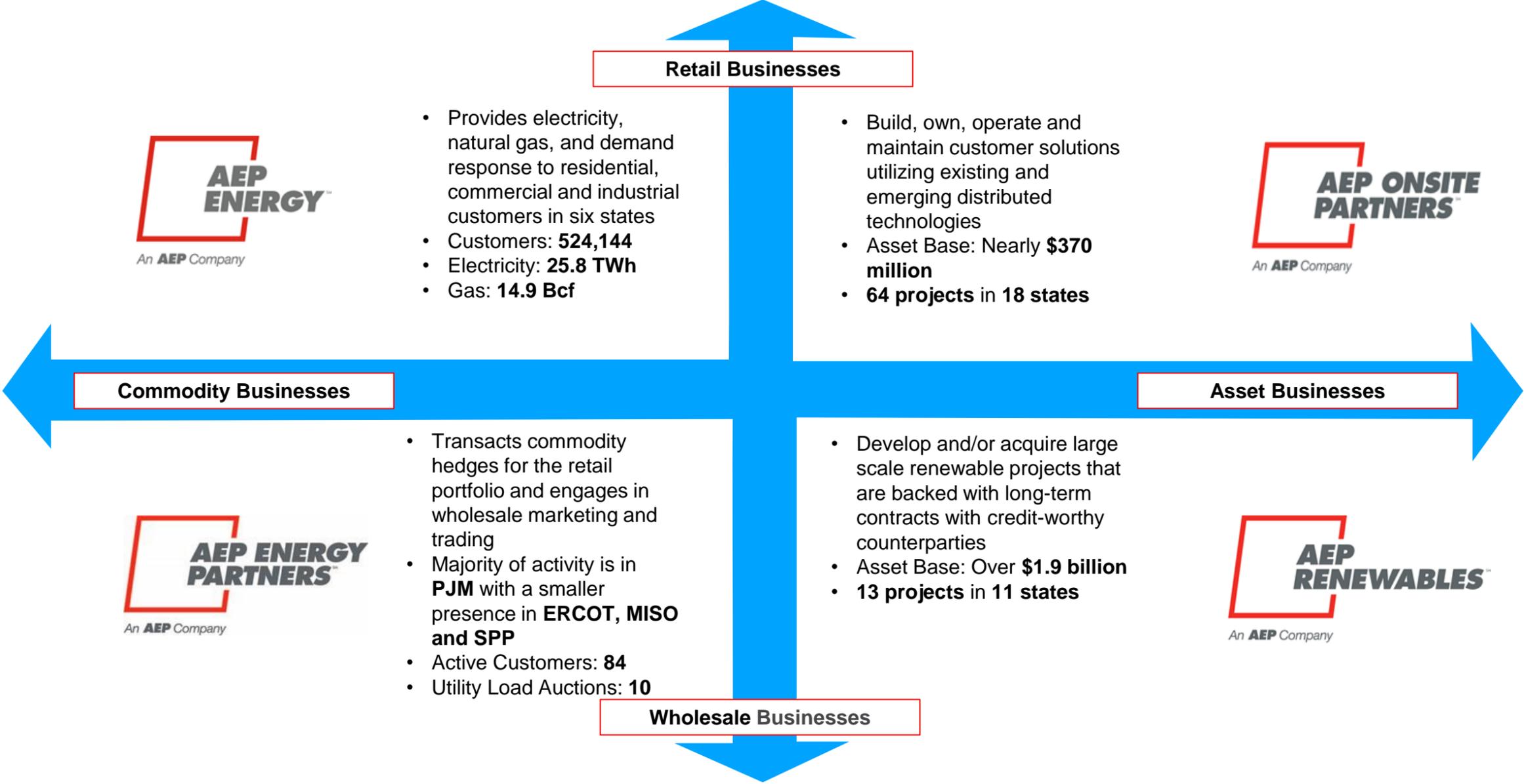
- **Organizational Structure**
- **Strategy and Operations**
- **Competitive Business Presence**
- **Customer Energy Solutions**
- **Universal Scale Renewable Projects**
- **Development Pipeline and Repower Initiatives**

# Competitive Operations Organizational Structure



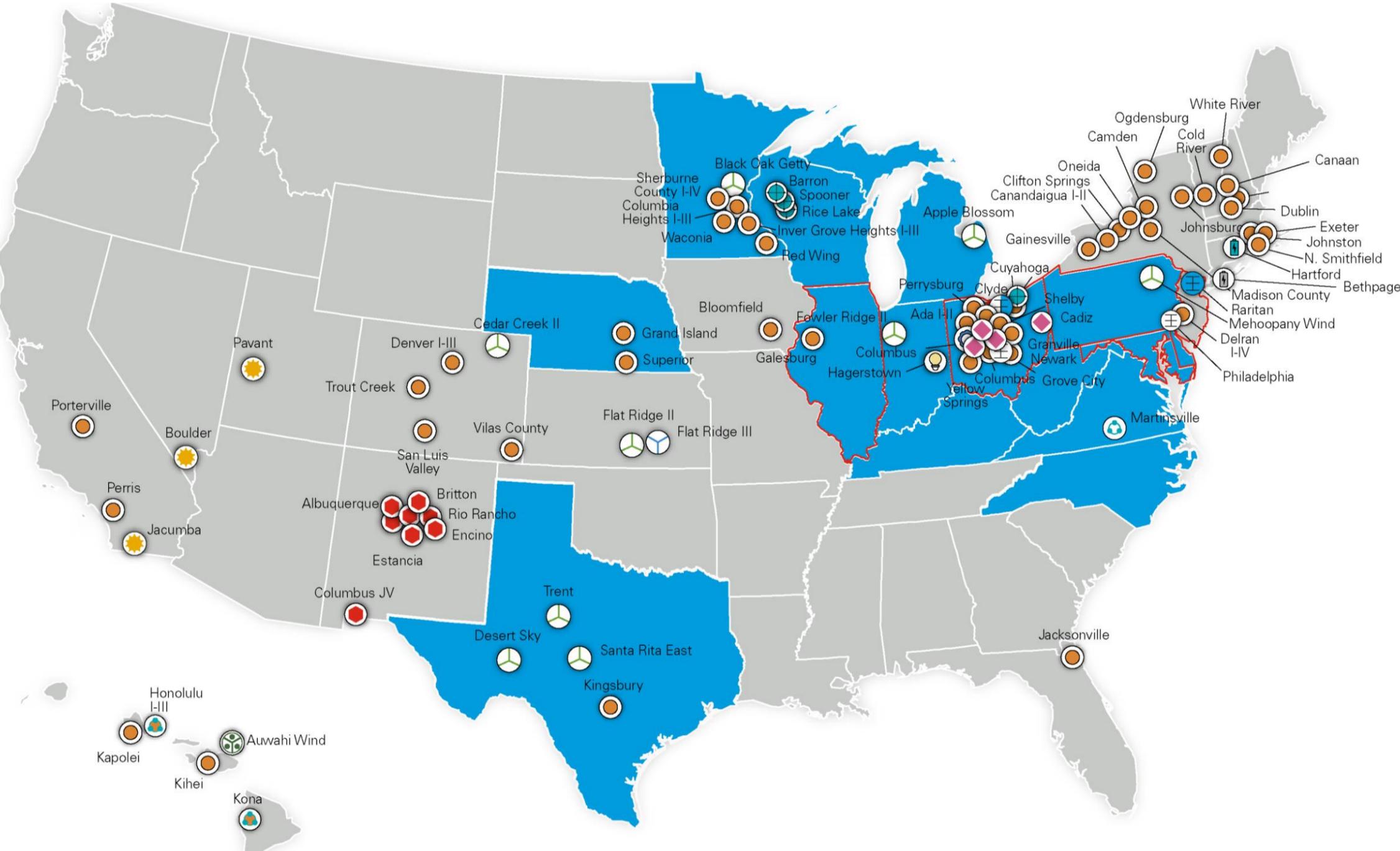
# Competitive Business Strategy and Operations

\$2.1B Capital Allocated 2021-2025



# Competitive Business Presence

Active in 31 States (7 states overlap with AEP Utilities)

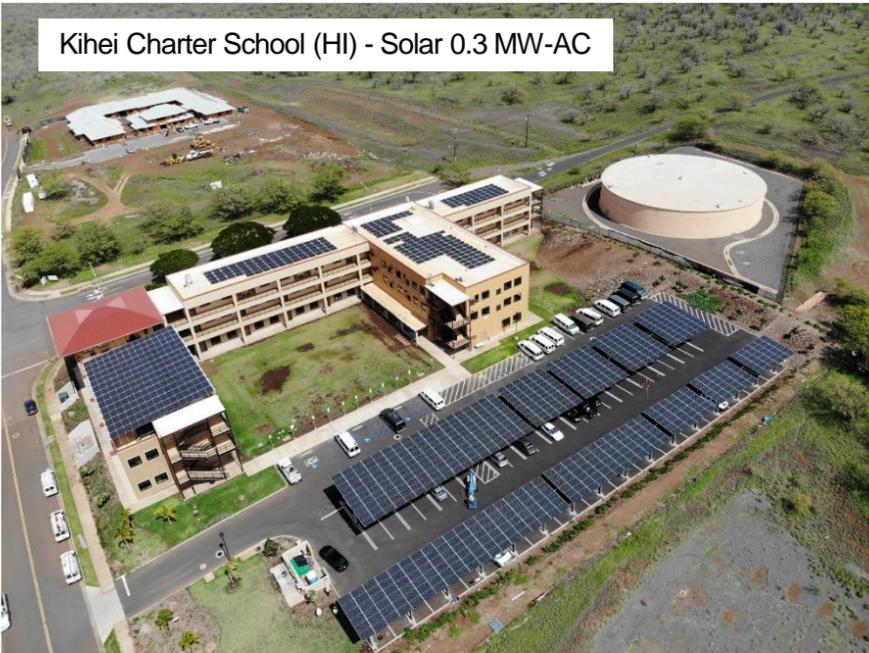


- AEP Renewables**
- Wind (Active) - 9 Sites | 1,260 MW
  - Wind (Planned) - 1 Site | 128 MW
  - Solar (Active) - 3 Sites | 116 MW
  - Wind/Storage (Active) - 1 Site | 17 MW
- AEP OnSite Partners**
- Solar (Active) - 50 Sites | 109 MW
  - Solar (Planned) - 4 Sites | 11 MW
  - Fuel Cell (Active) - 1 Site | 1 MW
  - Fuel Cell (Planned) - 1 Site | 2 MW
  - Engine (Planned) - 3 Sites | 14 MW
  - Station (Active) - 4 Sites | 475 MVA
  - Solar (Active) Joint Venture - 8 Sites | 89 MW
  - Solar (Planned) Joint Venture - 0 Sites | 0 MW
  - Engine (Active) - 2 Sites | 6 MW
  - Energy Efficiency - 1 Site | NA
  - Solar/Storage (Active) - 2 Sites | 1 MW
  - Station (Planned) - 1 Site | 600 MVA
  - Battery Energy Storage System (Planned) - 1 Site | 10 MW

- Retail Supply**
- Service Territory
- Wholesale Energy**
- Service Territory

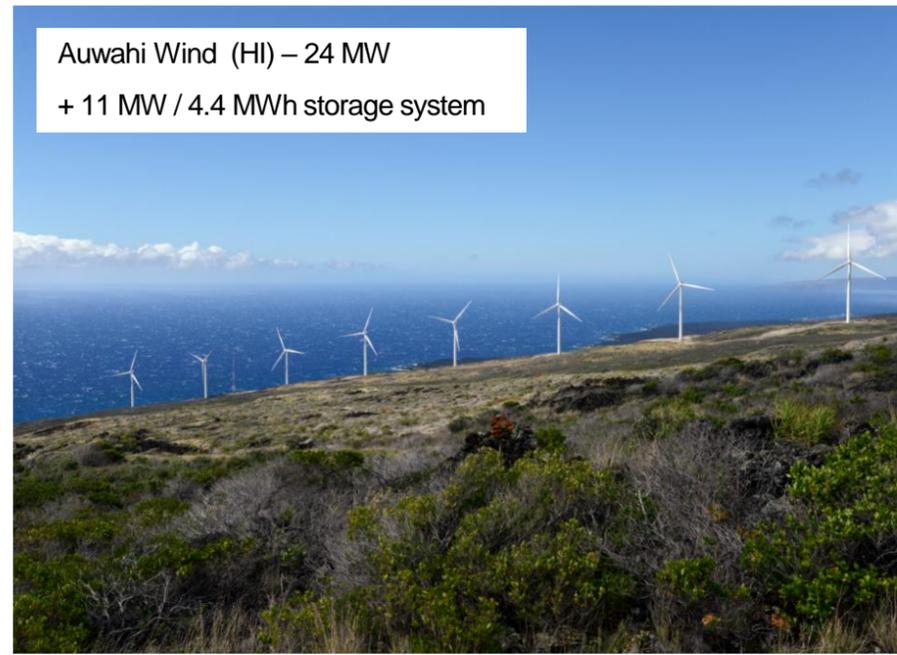
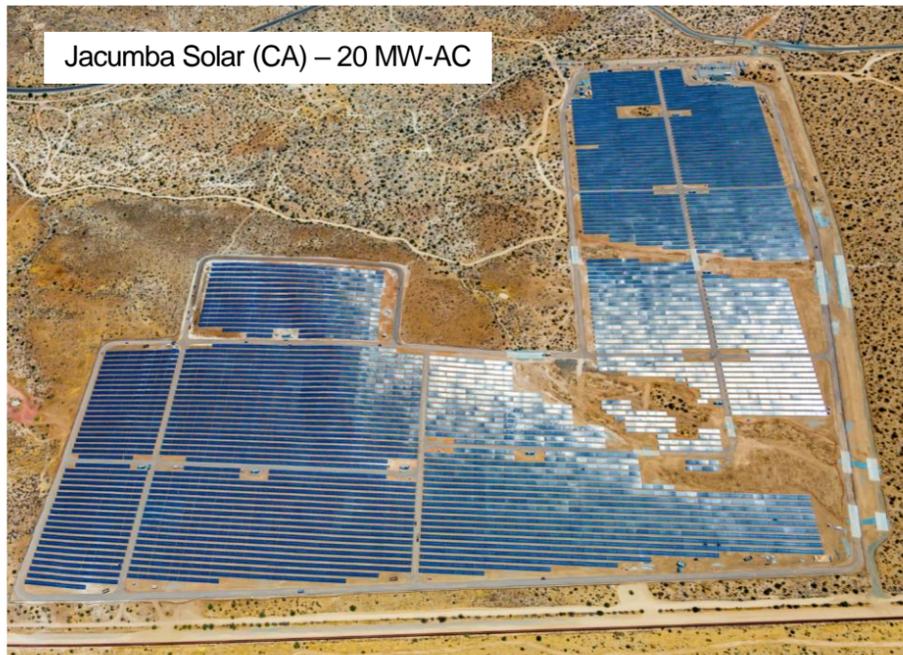
As of 10/01/2020

# Customer Energy Solutions



- Committed to nearly \$450 million in energy assets
- Portfolio of 73 operating and under construction projects in 21 different states
- Projects include customer sited solar projects, behind the meter energy storage assets, customer sited substations, peaking generation, energy efficiency projects and fuel cell projects

# Universal Scale Renewable Projects



- Committed to over \$2.1 billion in energy assets
- Portfolio of 14 operating projects in 11 different states
- Projects include large scale wind, solar and storage

# Development Pipeline and Repower Initiatives

## DEVELOPMENT PIPELINE

Progress continues in our development portfolio across three geographically dispersed areas.

The 128 MW Flat Ridge 3 wind project in Kansas is under construction and expected to be placed in-service early 2021 using all of our PTC Safe Harbor equipment (qualifying the plant for 100% PTCs). The project has a long-term power agreement with Evergy for the entire energy output.

The other mid- to late-stage opportunities in our development portfolio possess solid project and market fundamentals, and continue to attract strong interest from utilities, municipalities, cooperatives and corporates.

## REPOWER INITIATIVE

Similar to Trent and Desert Sky Wind Farms, we are evaluating our other existing projects for repower.

Review includes Fowler Ridge 2, Cedar Creek 2, Flat Ridge 2 and Mehoopany.

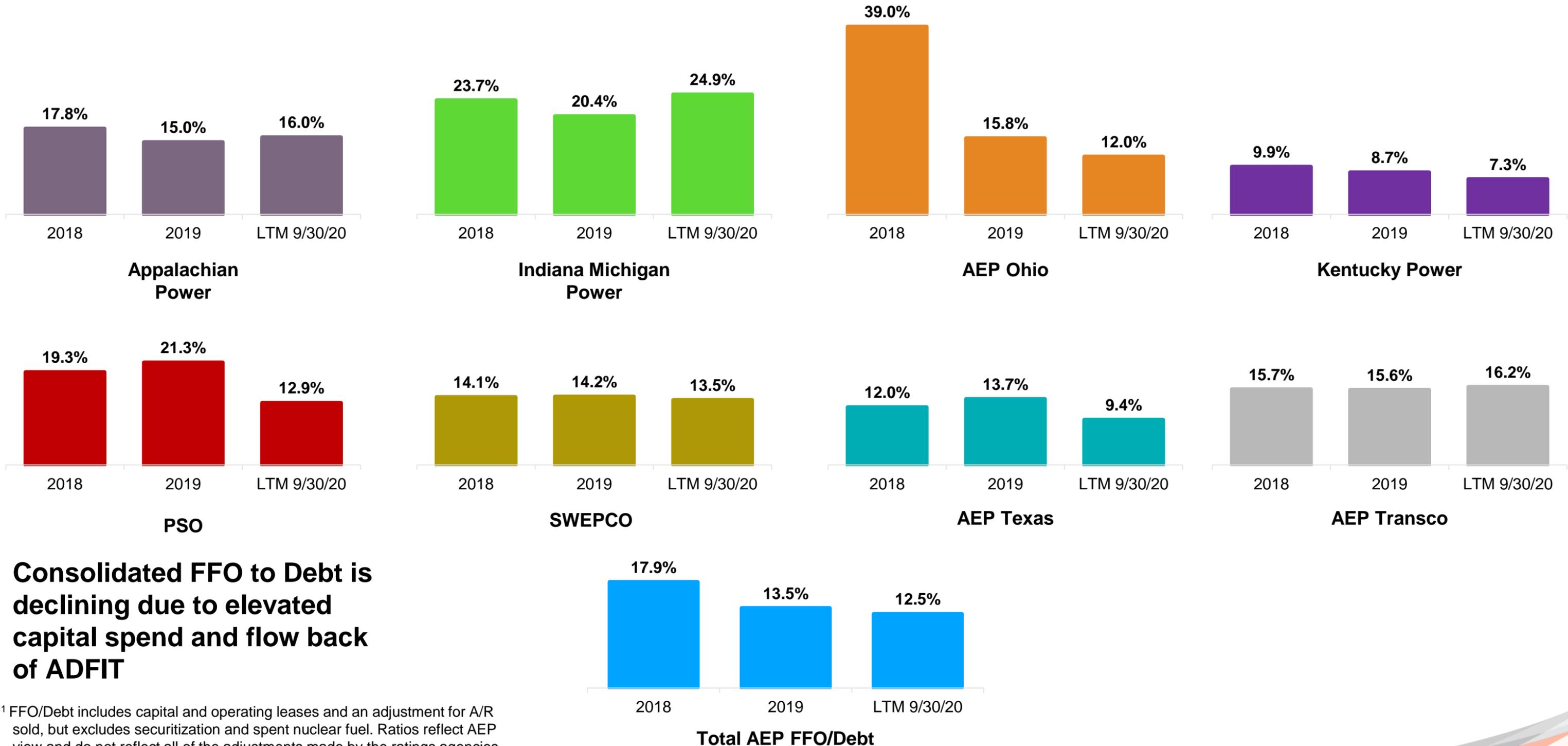
If the repowers were to take place, it would most likely be at 60% PTC level.



# WELL-POSITIONED REGULATED BUSINESS

- FFO/Debt by Operating Company
- Composition of Rate Base
- Rate Base, GWH Sales and Capital by Operating Company

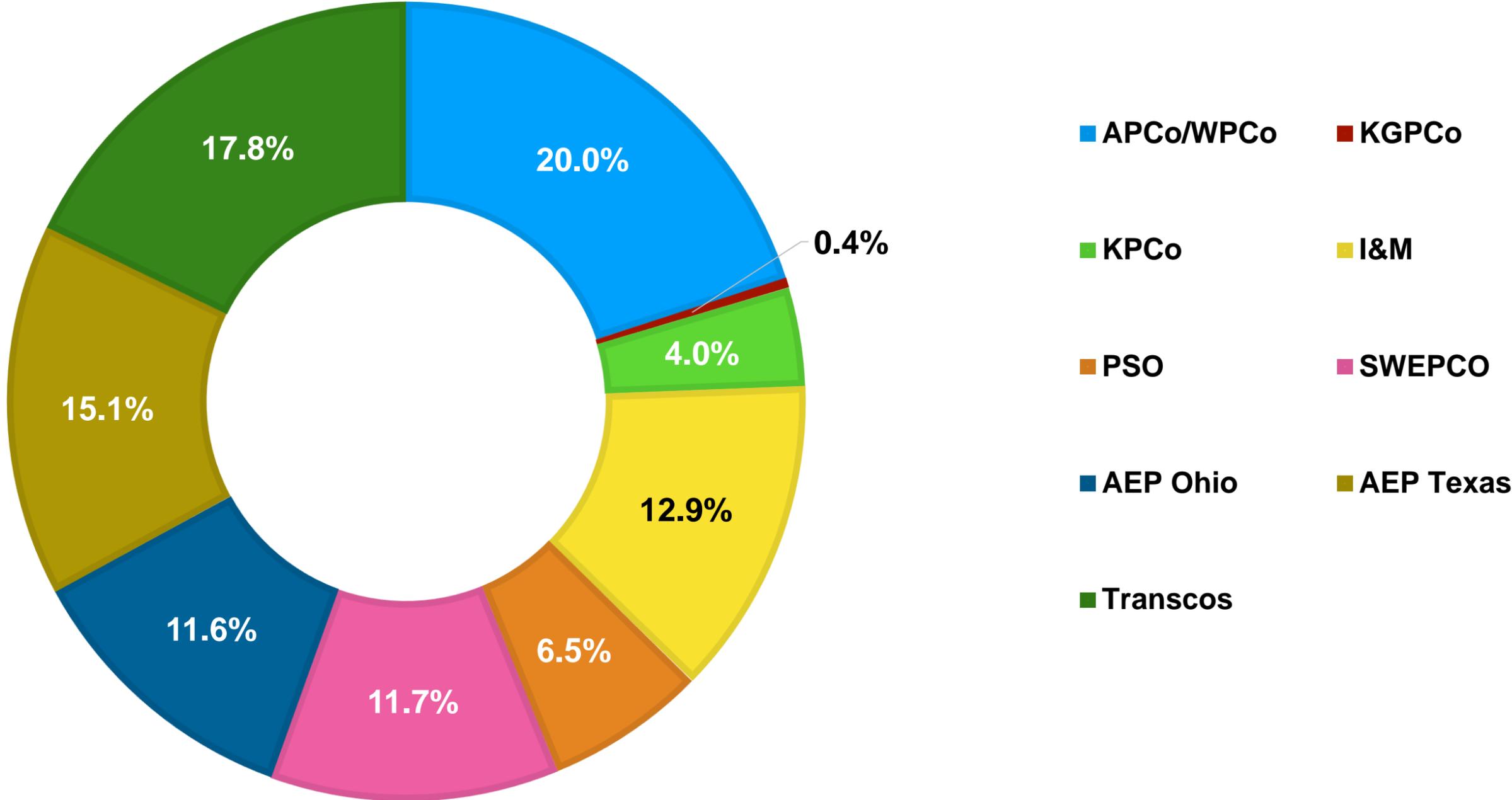
# FFO/Debt<sup>1</sup> By Operating Company



**Consolidated FFO to Debt is declining due to elevated capital spend and flow back of ADFIT**

<sup>1</sup> FFO/Debt includes capital and operating leases and an adjustment for A/R sold, but excludes securitization and spent nuclear fuel. Ratios reflect AEP view and do not reflect all of the adjustments made by the ratings agencies.

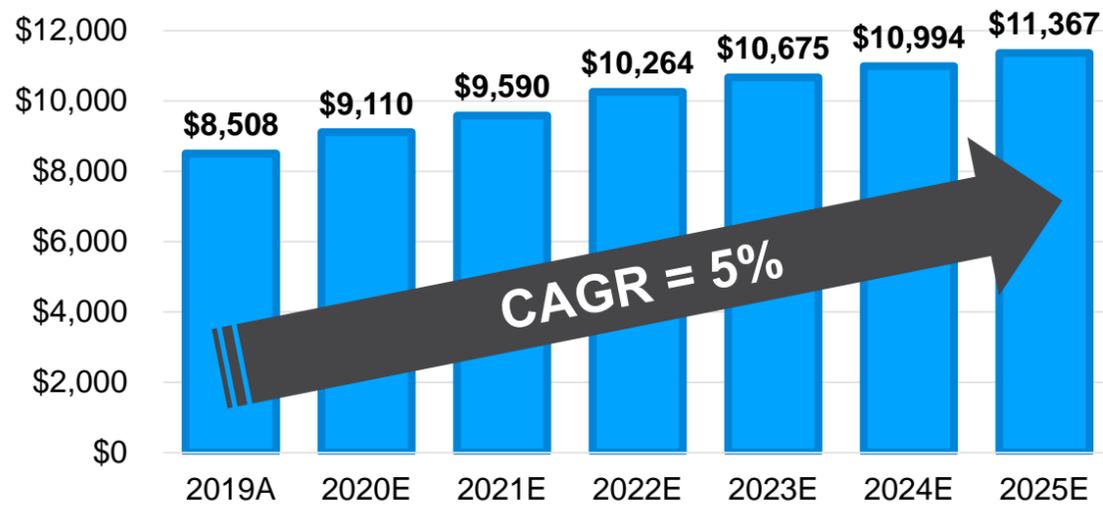
# Composition of Rate Base by Operating Company



# Appalachian Power and Wheeling Power Companies

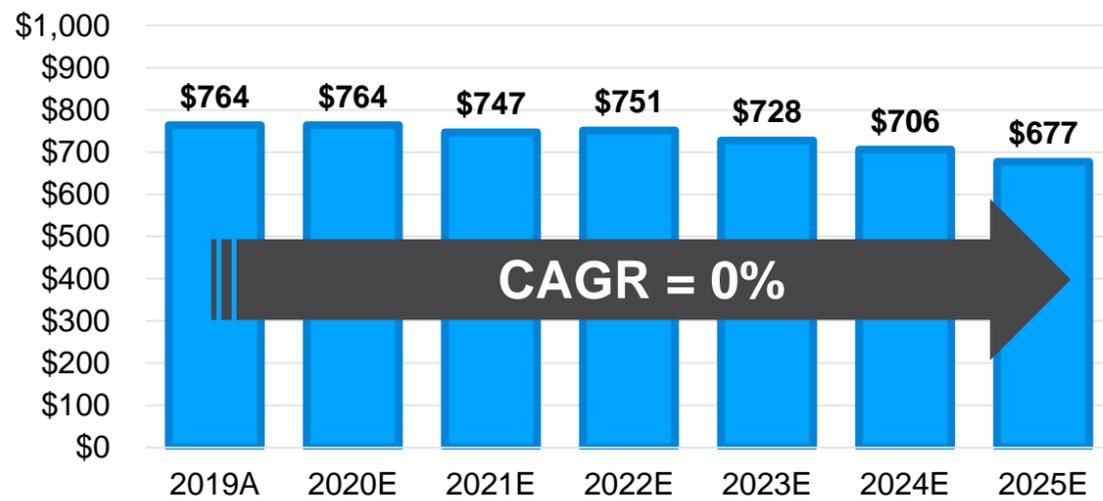
## APCo Projected Rate Base Proxy

\$ in millions



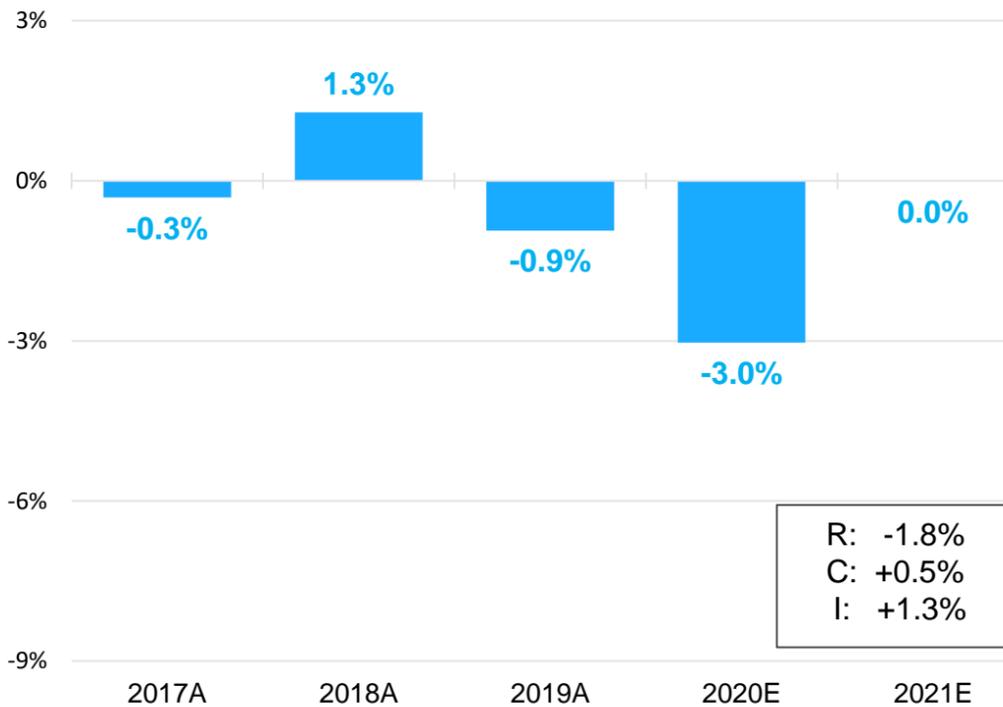
## WPCo Projected Rate Base Proxy

\$ in millions



## APCo/WPCo Normalized GWh Sales

% Change vs. Prior Year

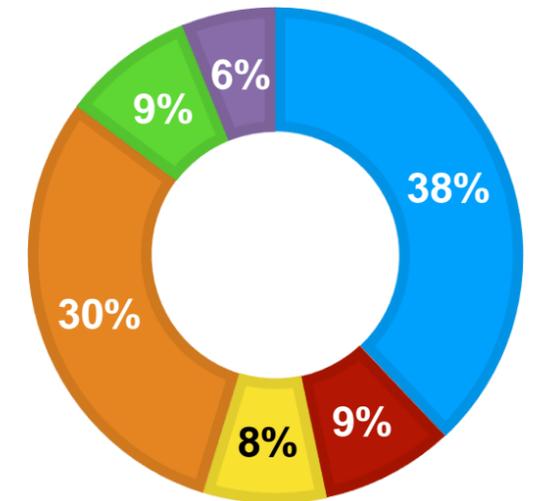


2020 includes 9 months weather normalized actual results plus 3 months forecast

R: -1.8%  
C: +0.5%  
I: +1.3%

## APCo/WPCo 2021-2025 Capital by Function

(excludes AFUDC)



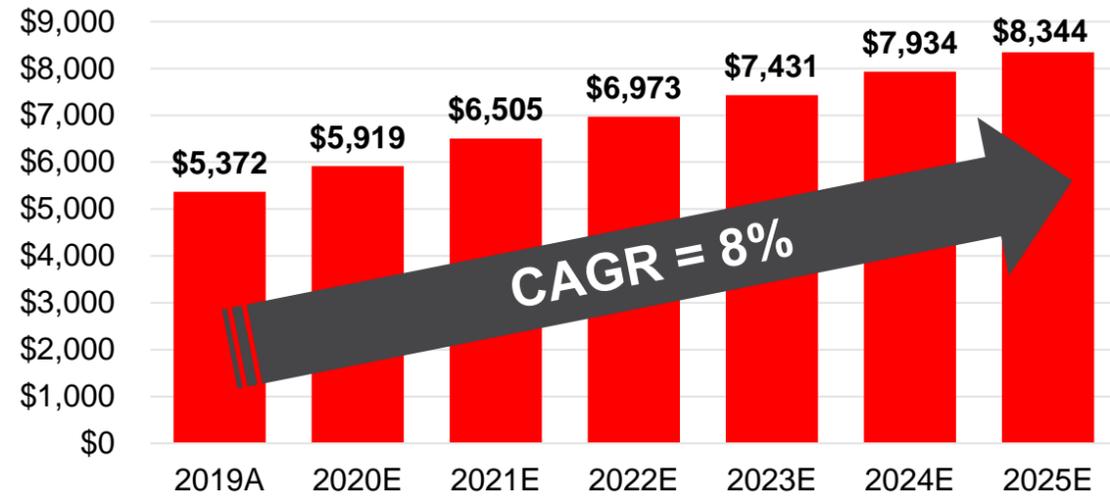
- Distribution - \$2.0B
- Environmental Generation - \$451M
- Fossil/Hydro Generation - \$418M
- Transmission - \$1.6B
- Corporate/Other - \$447M
- Renewables - \$316M

Total \$5.2B

# AEP Ohio

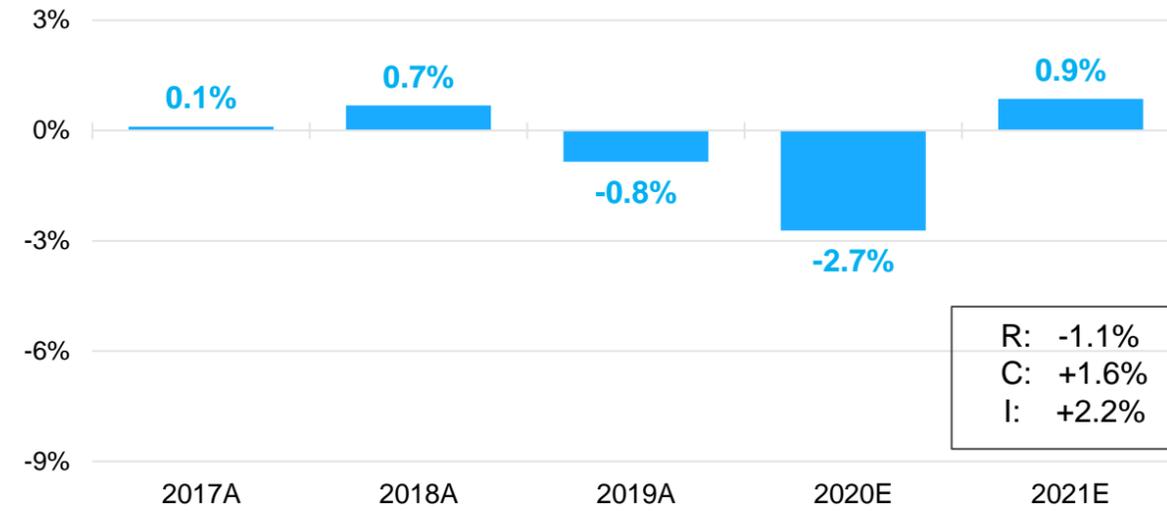
## AEP Ohio Projected Rate Base Proxy

\$ in millions



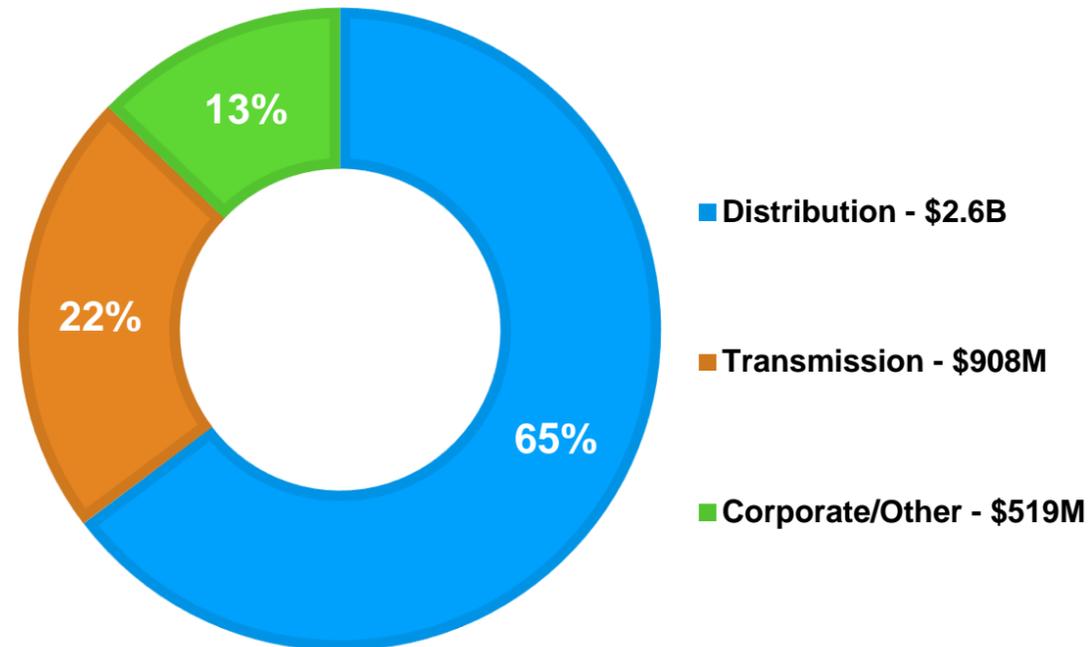
## AEP Ohio Normalized GWh Sales

% Change vs. Prior Year



2020 includes 9 months weather normalized actual results plus 3 months forecast

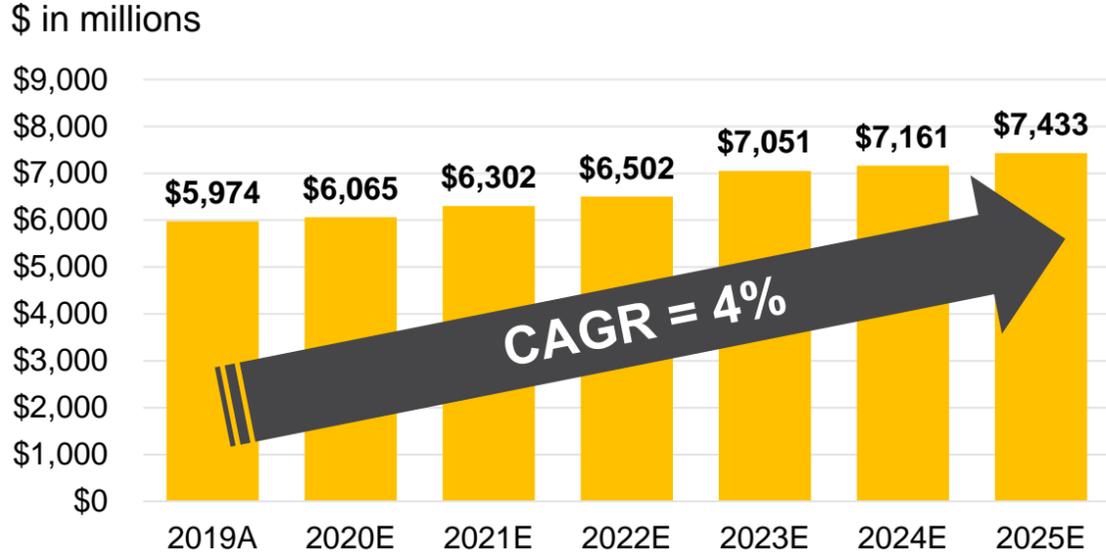
## AEP Ohio 2021-2025 Capital by Function (excludes AFUDC)



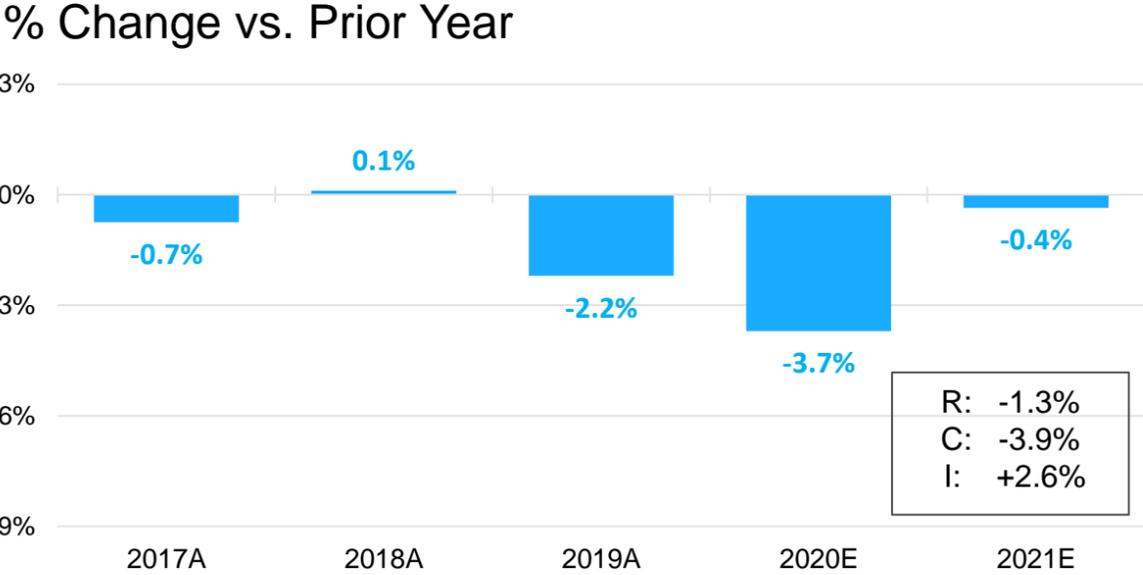
Total \$4.0B

# Indiana Michigan Power Company

## I&M Projected Rate Base Proxy

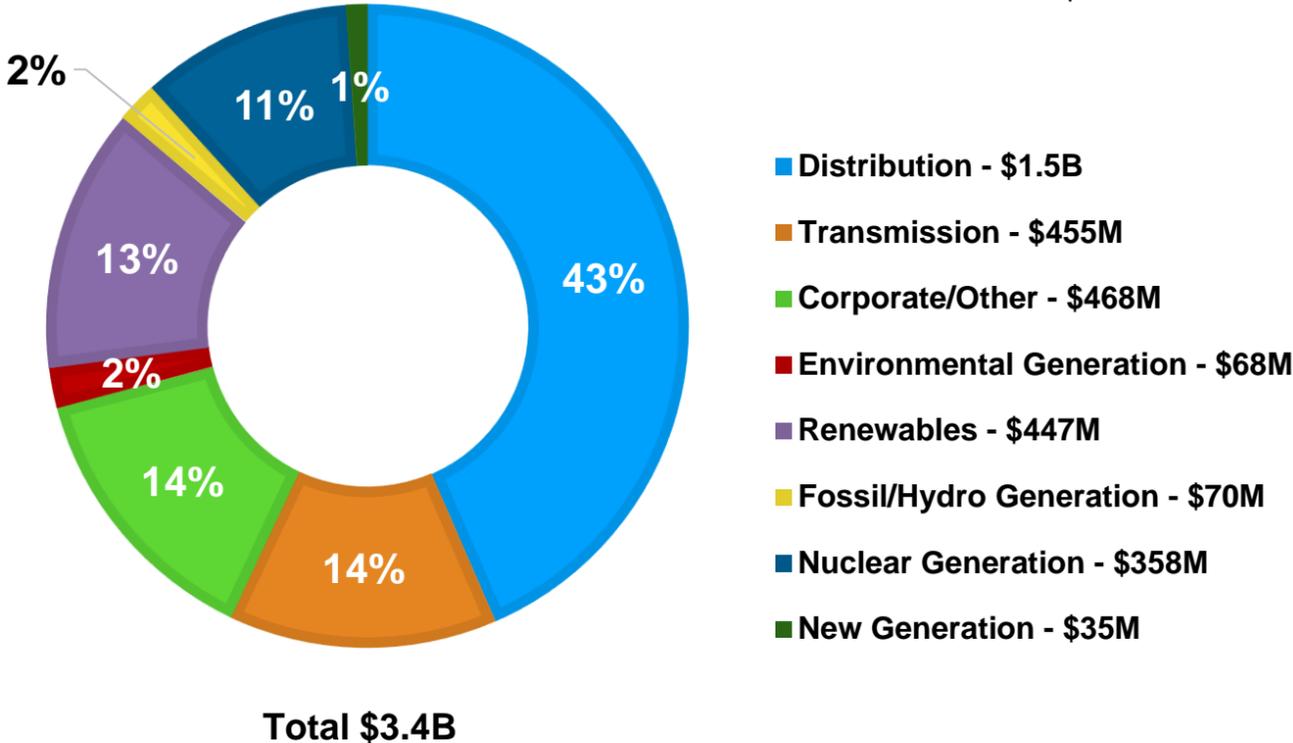


## I&M Normalized GWh Sales



2020 includes 9 months weather normalized actual results plus 3 months forecast

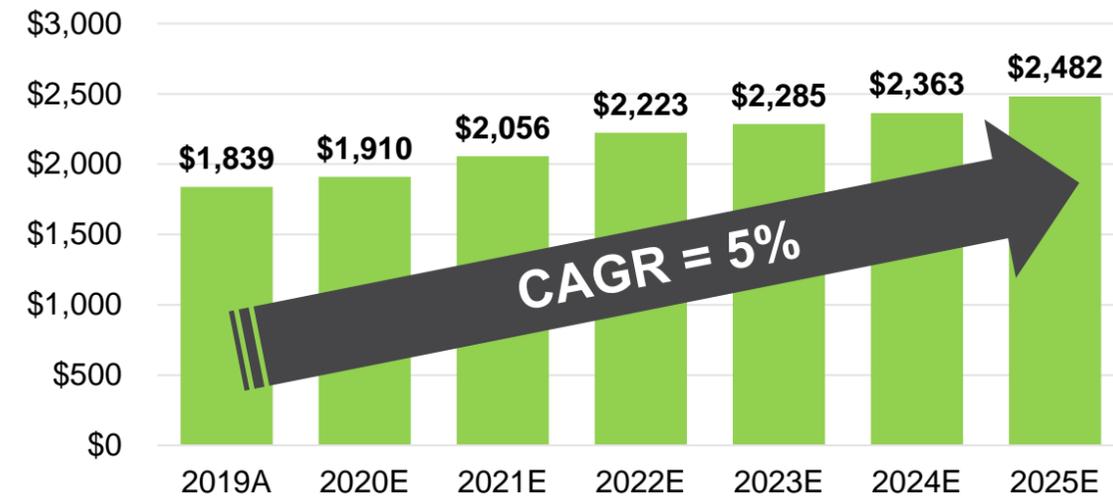
## I&M 2021-2025 Capital by Function (excludes AFUDC)



# Kentucky Power Company

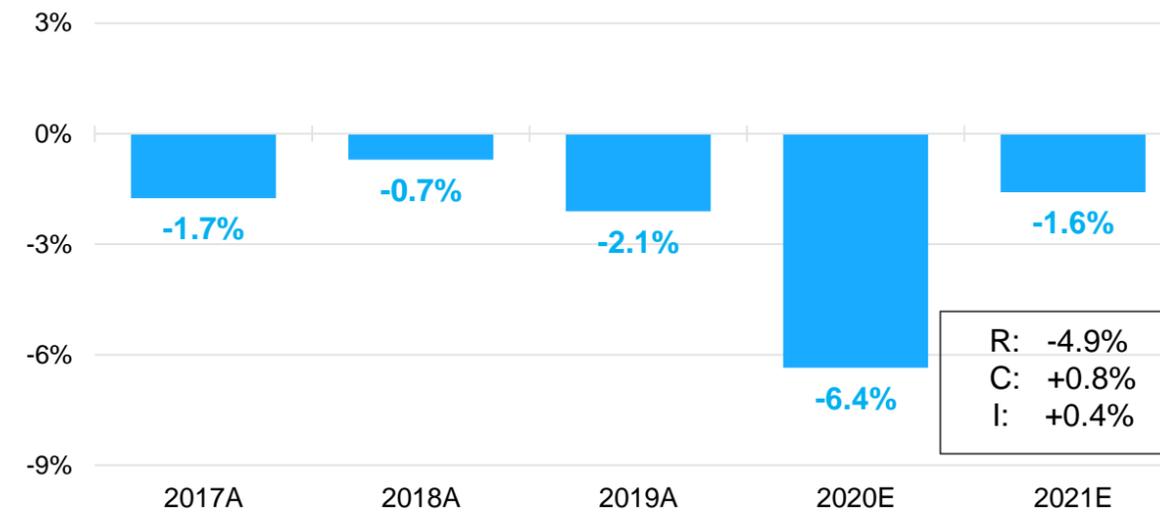
## KPCo Projected Rate Base Proxy

\$ in millions



## KPCo Normalized GWh Sales

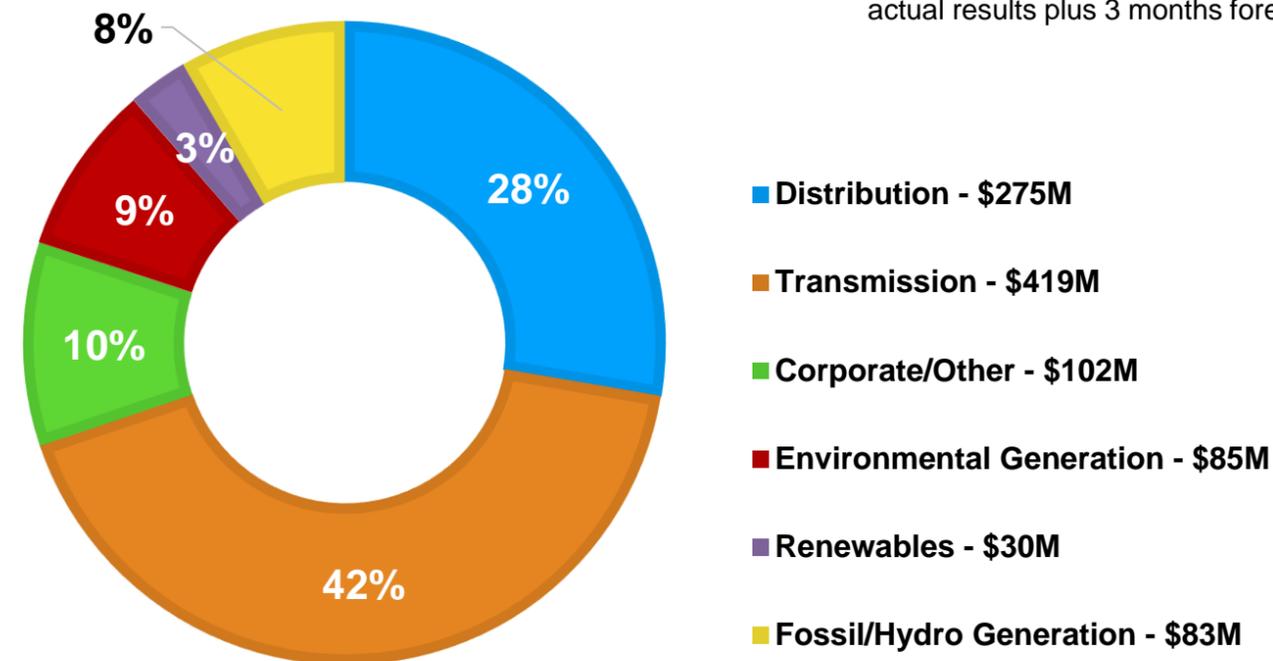
% Change vs. Prior Year



2020 includes 9 months weather normalized actual results plus 3 months forecast

## KPCo 2021-2025 Capital by Function

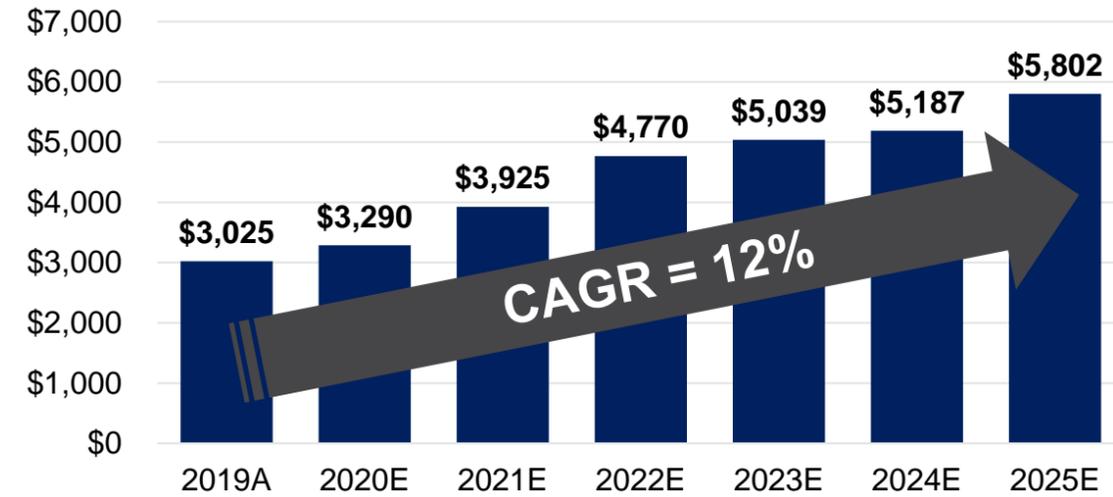
(excludes AFUDC)



# Public Service Company of Oklahoma

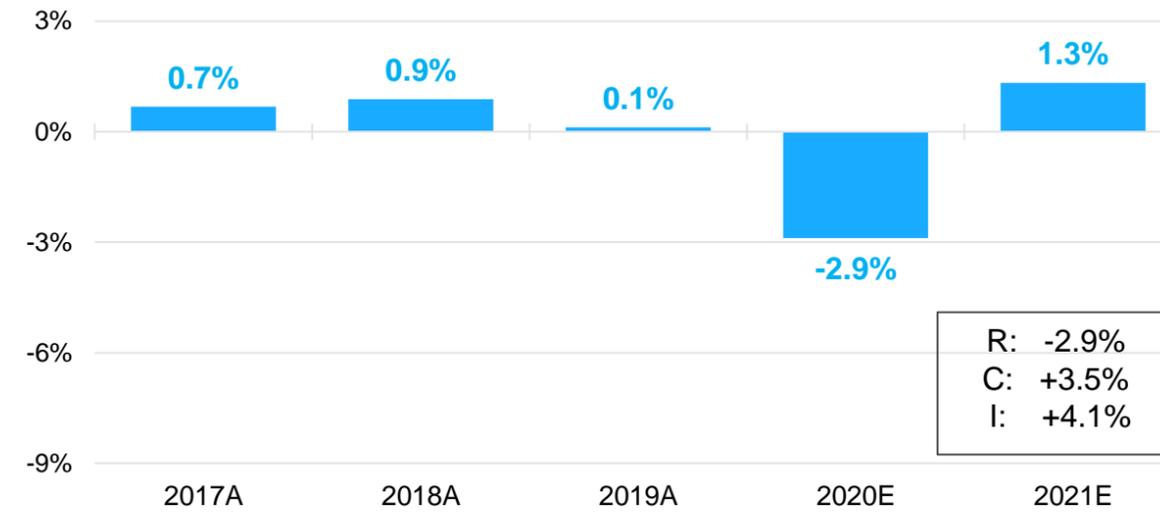
## PSO Projected Rate Base Proxy

\$ in millions



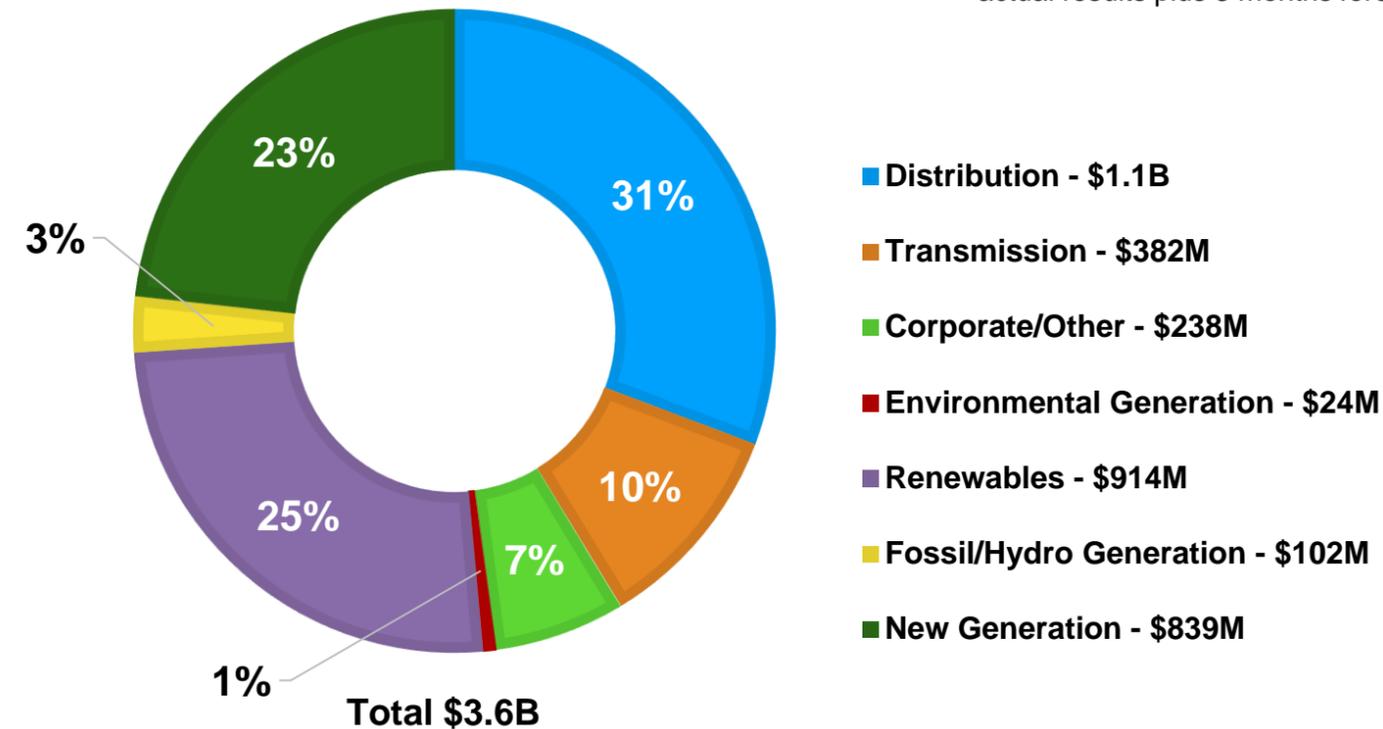
## PSO Normalized GWh Sales

% Change vs. Prior Year



2020 includes 9 months weather normalized actual results plus 3 months forecast

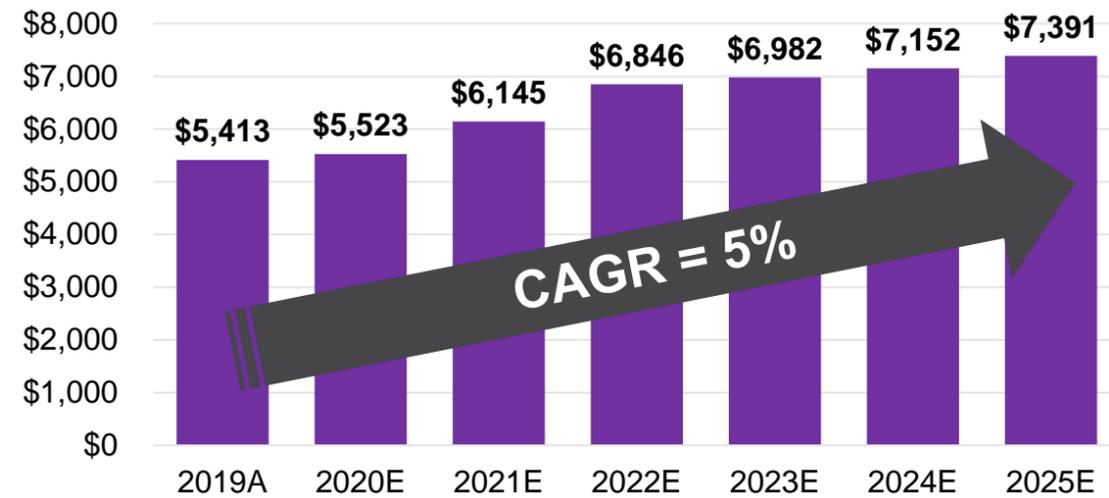
## PSO 2021-2025 Capital by Function (excludes AFUDC)



# Southwestern Electric Power Company

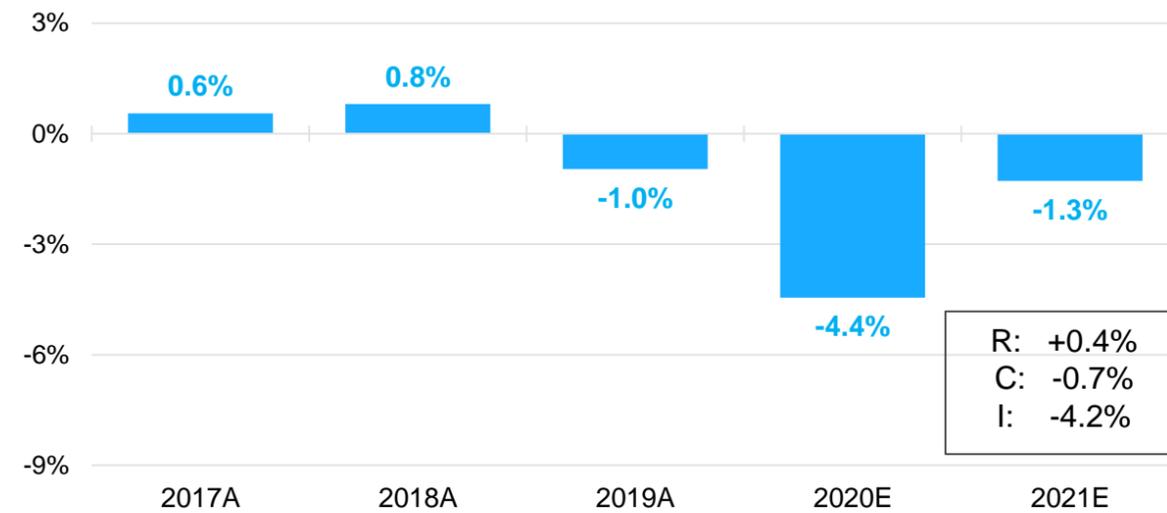
## SWEPCO Projected Rate Base Proxy

\$ in millions



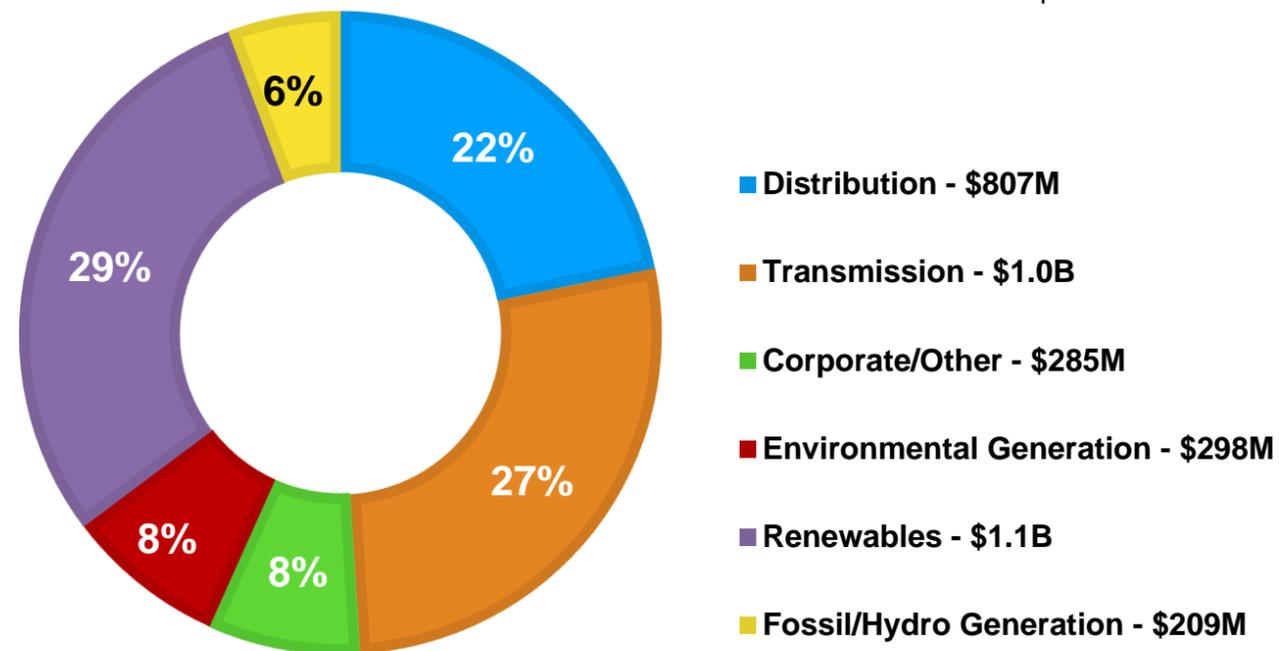
## SWEPCO Normalized GWh Sales

% Change vs. Prior Year



2020 includes 9 months weather normalized actual results plus 3 months forecast

## SWEPCO 2021-2025 Capital by Function (excludes AFUDC)

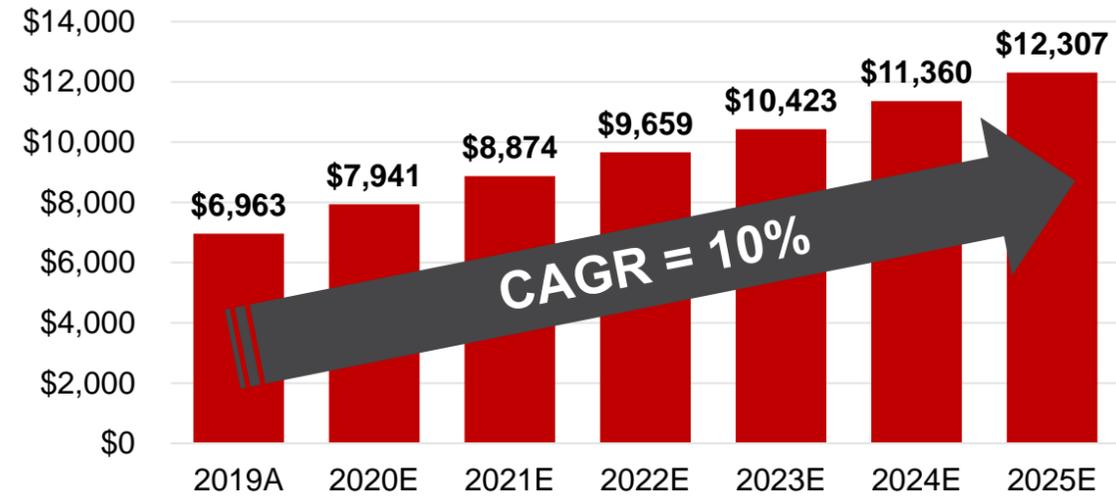


Total \$3.7B

# AEP Texas

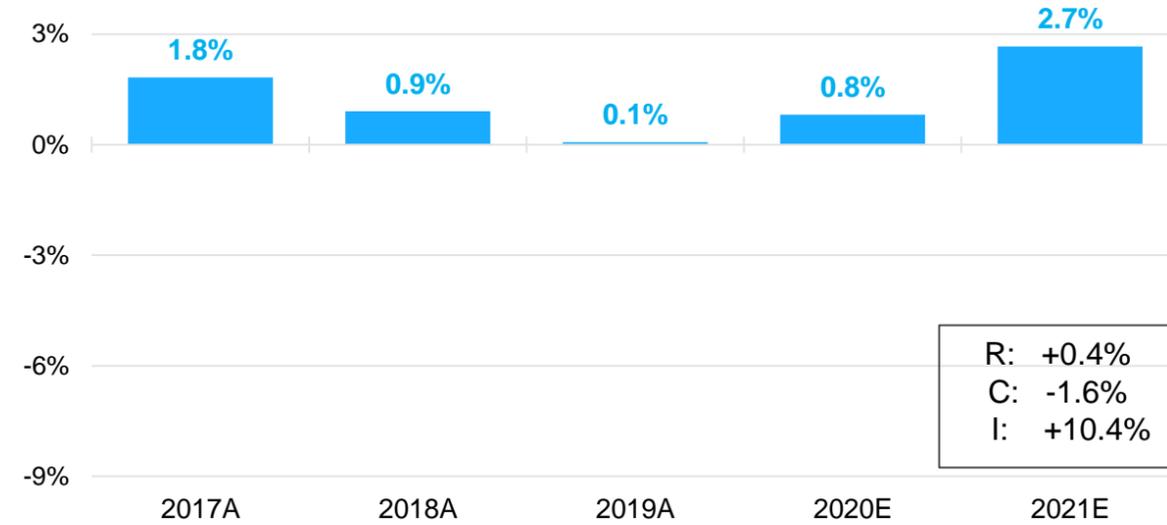
## AEP Texas Projected Rate Base Proxy

\$ in millions



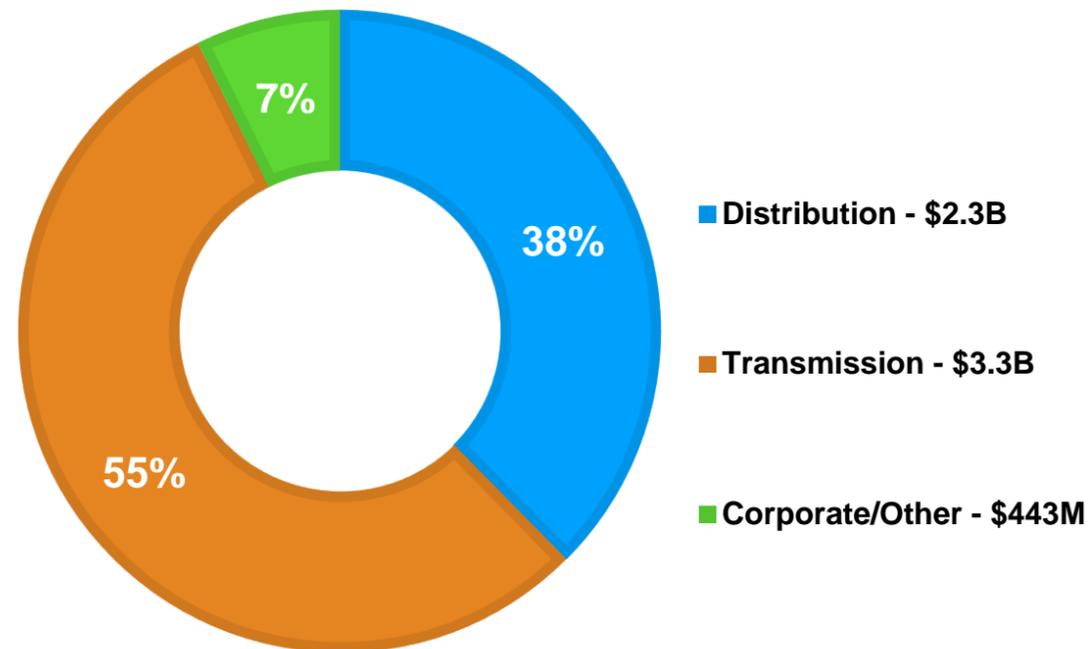
## AEP Texas Normalized GWh Sales

% Change vs. Prior Year



2020 includes 9 months weather normalized actual results plus 3 months forecast

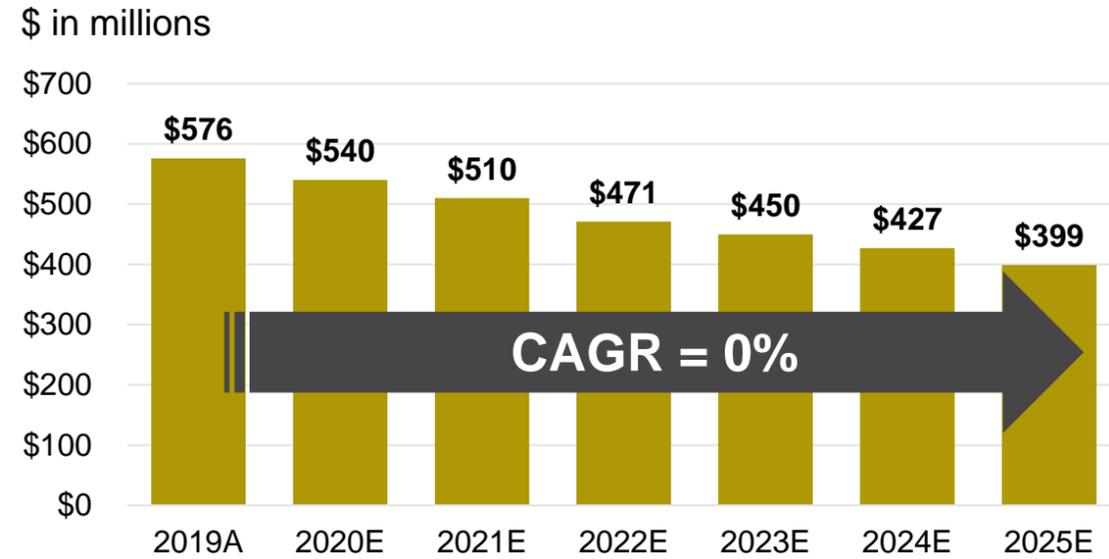
## AEP Texas 2021-2025 Capital by Function (excludes AFUDC)



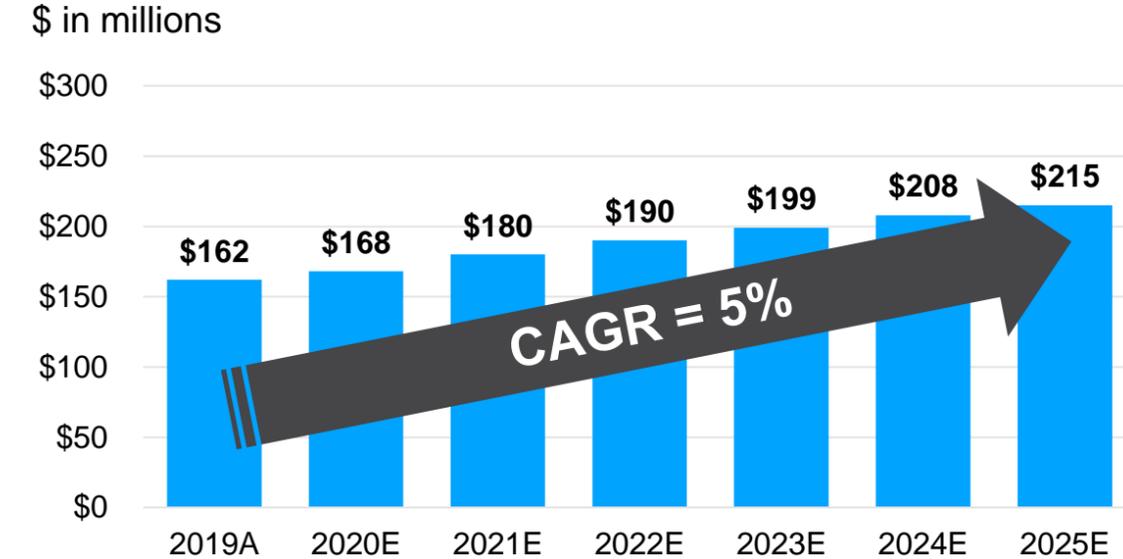
Total \$6.1B

# Other Utility Subsidiaries

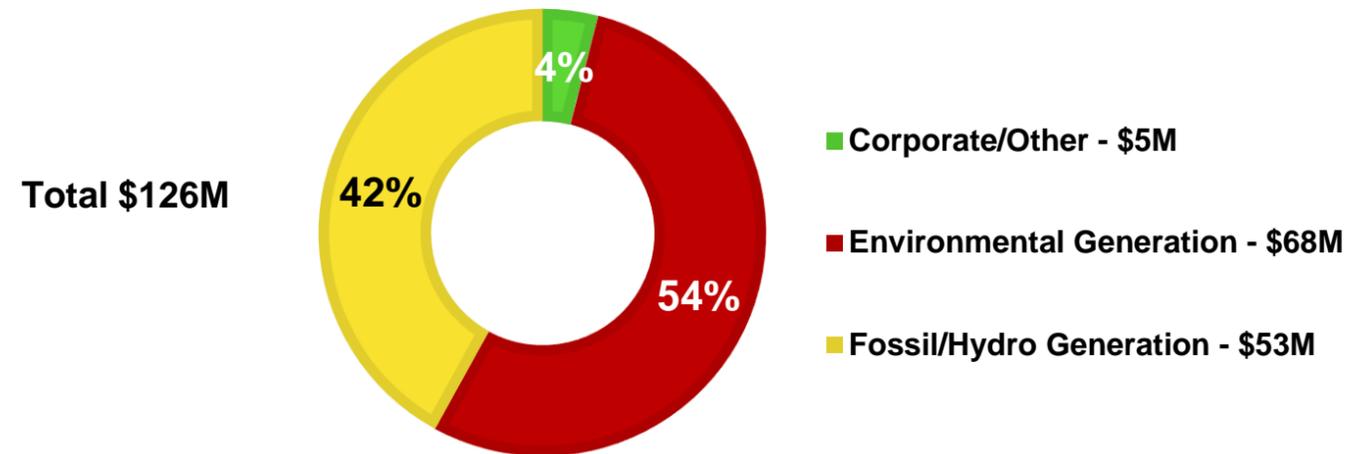
## AEP Generating Projected Rate Base Proxy



## Kingsport Projected Rate Base Proxy



## AEP Generating 2021-2025 Capital by Function (excludes AFUDC)



## Kingsport 2021-2025 Capital by Function (excludes AFUDC)

