

At AEP, we understand the importance of providing clear, accurate and consistent data and information in a timely manner. Our disclosure includes an annual Corporate Sustainability Report and ESG Data Center, which features a three-year trend on approximately 250 of the most requested ESG metrics. In addition, we publish several supplemental reports leveraging guidance from voluntary reporting standards and industry efforts to meet the unique needs of our stakeholders.



Generation Capacity		2021	2022	2023
Owned Generation Capacity (MW)	Total Owned Net Generation	24,857	25,050	23,308
Data reflects year-end capacity	Coal	11,858	11,263	10,711
	Natural Gas	7,615	7,613	7,596
	Nuclear	2,296	2,296	2,296
	Total Renewable Energy Resources	3,088	3,858	2,686
	Hydroelectric	805	805	816
	Solar	362	369	231
	Wind	1,921	2,684	1,639
	Other	0	20	20
Purchased Generation Capacity (MW)	Total Purchased Nameplate Generation Capacity	-	-	5,191
	Coal	_	_	1,531
	Natural Gas	_	_	260
	Nuclear	_	_	0
	Total Renewable Energy Resources	_	_	3,400
	Hydroelectric	_	_	80
	Solar	_	_	67
	Wind	_	_	3,253
	Other	_	_	0

^{1 · 2024} Corporate Sustainability Report

AMERICAN ELECTRIC POWER

Capacity		2021	2022	2023
Total Owned & Purchased Generation Capacity (MW)	Total Owned & Purchased Generation Capacity (MW)	-	-	28,499
	Coal	_	_	12,242
	Natural Gas	_	_	7,856
	Nuclear	_	_	2,296
	Total Renewable Energy Resources	_	_	6,086
	Hydroelectric	_	_	896
	Solar	_	_	298
	Wind	_	_	4,892
	Other	_	_	20



Generation		2021	2022	2023
Owned Net Generation (MWh)	Total Owned Net Generation	82,567,070	78,674,590	70,483,008
	Coal	45,052,460	37,058,587	28,858,441
	Natural Gas	13,077,646	14,740,697	16,826,181
	Nuclear	17,960,716	16,621,031	18,640,118
	Total Renewable Energy Resources	6,476,248	10,254,275	6,158,268
	Hydroelectric	860,163	623,425	573,954
	Solar	745,647	840,748	415,907
	Wind	4,870,438	8,790,102	5,168,407
Purchased Power Agreement	Total Purchased Generation	16,425,967	17,309,059	17,943,021
Net Generation (MWh)	Coal	4,549,389	6,763,991	8,041,532
	Natural Gas	2,969,042	1,151,496	940,530
	Nuclear	0	0	0
	Total Renewable Generation	8,907,536	9,393,572	8,960,959
	Hydro	139,780	212,325	170,219
	Solar	24,183	80,972	117,467
	Wind	8,743,573	9,100,275	8,673,273



About AEP

Decarbonization

Environment

Social

People

Governance

Data & Reports

ESG Data Center

Operational & Financial

Generation		2021	2022	2023
Total Net Generation (MWh)	Total Net Generation	98,993,037	95,983,649	88,426,029
Owned Generation & Purchased Power Agreements	Coal	49,601,849	43,822,578	36,899,973
	Natural Gas	16,046,688	15,892,193	17,766,711
	Nuclear	17,960,716	16,621,031	18,640,118
	Total Renewable Generation	15,383,784	19,647,847	15,119,227
	Hydro	999,943	835,750	744,173
	Solar	769,830	921,720	533,374
	Wind	13,614,011	17,890,377	13,841,680
Total Purchased Power Net Generation	Purchased Power From Unknown Generation Sources	49,886,750	57,826,824	47,862,582

From Unknown Sources

This data represents AEP's short term energy purchases

		2021	2022	2023
Facility Energy Consumption <i>Not inclusive of all AEP facilities</i>	Facility Energy Consumption (KWh)	104,334,588	100,582,993	95,016,825
	Percent Reduction (since 2007 baseline)	37.55%	37.94%	41.40%

Grid		2021	2022	2023
Grid Overview	Transmission Lines (miles)	40,000	40,000	40,000
	Distribution Lines (miles)	224,000	225,000	225,000
Relibility	System Average Interruption Duration (SAIDI) (Minutes)	238.50	269.90	217.19
	System Average Interruption Frequency Index (SAIDI) - Number of Interruptions	1.47	1.54	1.36
	Customer Average Interruption Duration Index (CAIDI) (Minutes)	161.80	175.00	159.41
	Customer Average Interruption Frequency Index (CAIFI) (Minutes)	2.21	2.31	2.10
	Average System Availability Index (ASAI)	99.96%	99.95%	99.96%

		2021	2022	2023
Customers	Residential	4,735,221	4,755,584	4,787,958
	Commercial	732,211	736,491	735,123
	Industrial	45,741	45,189	44,540
	Other	30,294	30,599	30,690
	Total	5,543,467	5,567,863	5,598,311

Customer		2021	2022	2023
Customer Energy Efficiency	Percent of Total Meters Deployed (Smart Meters)	63%	72%	78%
Programs & Smart Meters Energy efficiency data uses	Annual Investments in Energy Efficiency Programs	\$95,681,983	\$86,806,298	\$101,682,125
estimated values	Incremental Annual Electricity Savings from Energy Efficiency Meters (MWh)	406,737	349,952	492,506
	Annual Demand Savings (MW)	197	183	269
	Avoided CO2 Emissions (US Tons)	204,621	207,287	229,158
	Number of Residential Customers Participating in Energy Efficiency Programs	266,562	331,644	961,988
Customer Disconnects	Total Number of Disconnects	418,328	497,774	570,175
	Total Reconnects within 7 days	340,595	413,928	474,488
	Residential Reconnects within 7 days	328,516	399,258	456,065
	Total Residential Customer Disconnects	402,779	484,471	555,999
Customers Assistance	Residential Energy Affordability Transactions	621,456	713,893	559,018
The 2023 decrease in assistance is due to government funding support returning to pre-Covid levels	Energy Assistance Funds Provided to Low-Income Customers	\$134.8 million	218.1 million	\$110.6 million
	Number of Agency Pledges Made Online	31,174	59,149	52,956
	Amount contributed to Agency Pledges for Energy Assistance	\$15.2 million	\$25.6 million	\$19.7 million

AMERICAN ELECTRIC POWER

Economic		2021	2022	2023
Financial Data	Total Revenue	\$16.79 billion	\$19.64 billion	\$18.98 billion
	Total Assets	\$87.7 billion	\$94 billion	\$97 billion
	Total Annual Capital Expenditures/Investments (normal dollars)	\$6,547 million	\$7,982 million	\$6,902 million
Employee Wages	Amount Spent on Employee Wages	\$1.95 billion	\$1.95 billion	\$2.11 billion
Taxes Paid	Local & State	\$1,391 million	\$1,530 million	\$1,609 million
	Federal	\$69 million	\$246 million	\$193 million
Earnings Performance	Earnings per Share (GAAP)	\$4.97	\$4.51	\$4.26
	Operational Earnings per Share (non-GAAP)	\$4.74	\$5.09	\$5.25
	Cash Dividends per Common Share	\$3.00	\$3.17	\$3.37
Economic and Business Development	Jobs Supported by AEP's Economic and Business Development Efforts (Direct and Indirect)	37,899	22,998	25,599
	Economic Development Contributions ¹	\$1,088,522	\$942,399	\$722,180

¹2021 and 2022 data was restated due to a maturing reporting process

Environment

Emissions		2021	2022	2023
Scope 1 Emissions GHG CO ₂ e	Total Scope 1 Emissions CO ₂ e (MT)	56,401,080	51,100,144	44,453,919
	CO ₂ (MT)	55,612,321	50,678,735	43,979,713
	N ₂ O (MT CO ₂ e)	225,739	200,497	159,735
	CH ₄ (MT CO ₂ e)	163,629	146,796	117,017
	SF ₆ (MT CO ₂ e)	399,391	73,920	197,454
Other Emissions Breakdown	SO ₂ (MT)	33,987	29,819	22,123
Represents direct emissions from AEP owned Title IV sources only	SO ₂ (Lbs)	74,928,901	65,738,948	48,774,000
	NO _x (MT)	26,926	25,775	24,157
	NO _x (Lbs)	59,362,878	56,824,435	53,257,944
	Mercury Emissions to Air (Lbs) ¹	256	218	159
	Mercury Emissions to Air (kg) ¹	116	98	72
Water		2021	2022	2023

Water		2021	2022	2023
Total Water Withdrawal Total water withdrawal now includes surface, ground (self), municipal and Comanche Plant	Total Water Withdrawal (Million Gallons/day)	4,276	2,481	3,824
	Total Water Withdrawal (Million Gallons/year)	1,560,629	905,689	1,395,849
	Total Water Withdrawal (Millions of m3/year)	5,908	3,428	5,284

¹ Based on equity Ownership. Current year mercury emissions data is preliminary. Will be updated once data is finalized with the EPA

Environment

Water		2021	2022	2023
Water Withdrawal by Source Breakdown	Surface Water Withdrawal (Million Gallons/day) ¹	4,272	2,476	3,818
	Surface Water Withdrawal (Million Gallons/year)	1,559,368	903,816	1,393,579
	Surface Water Withdrawal (Millions of m3/year) ¹	5,903	3,421	5,275
	Groundwater (m3/year)	3,975,163	5,075,675	5,373,531
	Other (m3/year) ²	794,646	1,595,492	3,129,877
Water Discharge	Total Water Discharge (Million Gallons/day)	4,119	2,424	2,492
All water discharge represents surface water discharge.	Total Water Discharge (Million Gallons/year)	1,503,402	884,841	909,406
	Total Water Discharge (Millions of m3/year)	5,690,995	3,349,489	3,422,475
Water Consumption	Total Water Consumption (Million Gallons/day)	161	58	53
All water consumption is freshwater.	Total Water Consumption (Million Gallons/year)	58,702	21,079	19,475
	Total Water Consumption (Millions of m3/year)	222	80	74
Water Intensity	Water Withdrawal Intensity (Gallons/Net MWh)	20,736	13,493	22,993
AEP does not include renewable MWhs in intensity metrics because water	Water Withdrawal Intensity (Billions of liters/Net MWh)	0.00008	0.000051	0.000086
is not used in the renewable energy process. Plants that AEP only has partial ownership are also excluded as AEP does not control their operations.	Consumptive Water Use Intensity (Gallons/Net MWh)	780	314	322
	Non-Consumptive Water Use Intensity (Gallons/Net MWh)	37,917	13,183	15,024
does not control their operations.	Non-Consumptive Water Use Intensity (Billions of liters/ Net MWh)	0.00014	0.00005	0.00006

¹ Excludes groundwater, municipal and Comanche Plant water withdrawal

² Represents Comanche Plant Withdrawal

About AEP Decarbonization Environment Social People Governance Data & Reports

ESG Data Center

Environment

Waste		2021	2022	2023
Hazardous Waste	Total Hazardous Disposed Waste (Lbs)	-	-	47,846
Recycled Waste	Scrap Metal Recycled (Lbs)	39,321,951	37,563,314	53,375,947
	Batteries Recycled (Lbs)	176,880	64,645	156,654
	Electronic Waste Recycled (Lbs) ¹	18,857	11,908	240,000
	Light Bulbs Recycled (Lbs)	51,441	38,746	32,978
	Used Oil Recycled (Gallons)	233,325	389,894	1,163,247
Coal Combustion Products	Total CCPs Generated (U.S. Tons)	3,439,697	2,791,489	2,285,380
	Total CCPs Diverted from Landfill U.S. Tons	1,069,923	1,197,682	1,024,890
	Total Avoided Disposal Costs	\$17,829,733	\$20,131,599	\$17,266,243
	Total CCP Revenues Generated	\$11,938,635	\$12,084,787	\$11,037,713
	Total CCP Diverted from Landfill Percent	31%	43%	45%
Biodiversity		2021	2022	2023
Protected Habitat	Required mitigation habitat acres supporting biodiversity	29,752	30,180	30,343
Data represents cumulative totals of protected, enhanced and restored habitat at the end of data year	Voluntary mitigation habitat acres supporting biodiversity	251,115	253,668	253,602
	Required mitigation habitat acres supporting biodiversity and pollinators	27	107	107
	Voluntary mitigation habitat acres supporting biodiversity and pollinators	260	262	396

¹E-Waste increased in 2023 as a result of restarting our computer life cycle program post Covid

About AEP Decarbonization Environment Social People Governance Data & Reports

ESG Data Center

Community Impact		2021	2022	2023
Volunteerism	Total Employee Volunteer Hours	-	_	31,207
	Percentage of Employees Registered to participate in Volunteer Activities	-	_	19%
Charitable Giving	Total Charitable Giving	\$35,109,340	\$41,122,942	\$31,660,132
	Number of Organizations Receiving Charitable Giving	_	_	1,789
Percent of Charitable Giving	Education	30.3%	26.9%	27.5%
by Area of Focus	Community Vitality	12.0%	17.1%	17.9%
	Hunger & Housing	14.4%	11.9%	15.0%
	Safety & Health	13.9%	7.3%	11.2%
	Arts & Culture	8.1%	6.9%	8.3%
	Diversity & Inclusion/Social Justice	3.3%	6.3%	8.0%
	Other	17.9%	23.9%	12.2%

Community Impact		2021	2022	2023
Charitable Giving Broken Down by State	Arkansas	\$566,104	\$512,688	\$444,889
	Indiana	\$2,596,583	\$2,693,796	\$1,627,198
	Kentucky	\$507,482	\$467,104	\$335,001
	Louisiana	\$806,143	\$1,609,359	\$509,095
	Michigan	\$630,273	\$938,326	\$1,050,292
	Ohio	\$20,852,676	\$25,873,681	\$19,932,351
	Oklahoma	\$1,178,477	\$1,715,244	\$1,655,143
	Tennessee	\$143,774	\$172,794	\$269,000
	Texas	\$3,949,565	\$2,524,650	\$3,023,943
	Virginia	\$1,329,610	\$1,379,206	\$1,341,243
	West Virginia	\$1,386,292	\$1,503,902	\$1,036,760
	Other	\$1,162,361	\$1,732,191	\$435,215



Workforce		2021	2022	2023
Employee Type	Total Number of Employees	16,688	16,974	17,250
	Number of Full-time Employees	16,658	16,940	17,215
	Number of Part-time Employees	30	34	35
	Number of Represented Employees	3,836	3,846	3,945
	Percent of Represented Employees	23%	23%	23%
	Number of Veteran Employees	1,654	1,640	1,620
	Percent of Veteran Employees	10%	10%	9%
	Percent of Veteran New Hires	7%	6.57%	6.09%
Employee Job Category	Total Number of Professionals	5,701	5,859	6,057
	Total Number of First/Mid-Level Officials/Managers	2,982	3,142	3,157
	Total Number of Executive/Senior-Level Officials	229	225	212
Workforce Demographics	Traditionalists (1945 and Before)	0.07%	0.06%	0.04%
	Baby Boomers (1946-1964)	24%	20%	17%
	Generation X (1965-1980)	37%	37%	36%
	Millennials (1981-1996)	36%	38%	39%
	Generation Z (1997 & Beyond)	2%	5%	7%

About AEP Decarbonization Environment Social People Governance Data & Reports

ESG Data Center

Workforce		2021	2022	2023
Female Diversity	Total Female Employees	3,340	3,455	3,527
	Percent of Female Employees	20%	20%	20%
	Number of Female Professionals	1,604	1,673	1,737
	Percent of Female Professionals	28%	29%	29%
	Number of Female First/Mid Level Officials	517	556	578
	Percent of Female First/Mid Level Officials	17%	18%	18%
	Number of Female Executive/Senior-Level Officials	50	54	51
	Percent of Female Executive/Senior-Level Officials	22%	24%	24%
Ethnic Diversity	Total Minority Employees	3,240	3,433	3,551
,	Percent of Minority Employees	19%	20%	21%
	Number of Minority Professionals	1,182	1,283	1,383
	Percent of Minority Professionals	21%	22%	23%
	Number of Minority First/Mid-Level Officials	417	440	447
	Percent of Minority First/Mid-Level Officials	14%	14%	14%
	Number of Minority Executive/Senior-Level Officials	27	29	27
	Percent of Minority Executive/Senior-Level Officials	12%	13%	13%

Workforce		2021	2022	2023
Employee Resource Group Involvement	Number of Employees Participating in Employee Resource Groups	-	-	1,840
	Percentage of Employees Participating in Employee Resource Groups	_	_	11%
Employee Development	Estimated Number of Hours of Employee Training Tracked through Formal Training Programs	719,528	951,320	806,400
	Employees Participating in Tuition Reimbursement	575	1,033	561
	Amount Spent on Tuition Reimbursement	\$2,003,269	\$3,256,579	\$2,233,821
	Number of Employees Receiving Career Development Reviews	11,962	10,985	11,215
	Percent of Total Workforce Receiving Career Development Reviews	72%	65%	65%
	Number of Female Workforce Receiving Career Development Reviews	2,976	2,965	3,098
	Percent of Female Workforce Receiving Career Development Reviews	89%	86%	88%
	Number of Minority Workforce Receiving Career Development Reviews	2,526	2,280	2,420
	Percent of Minority Workforce Receiving Career Development Reviews	78%	66%	68%

Workforce		2021	2022	2023
Employee Opportunities/Promotions	Total Number of Opportunities/Promotions	1,376	1,486	1,081
	Opportunity/Promotion Rate ¹	8.2%	8.9%	6.3%
	Total Opportunities/Promotions for Female Employees	312	365	213
	Female Opportunities/Promotion Rate ²	9.3%	10.6%	19.7%
	Total Opportunities/Promotions for Minority Employees	272	311	192
	Minority Opportunities/Promotion Rate ²	8.4%	9.1%	17.8%

Workforce		2021	2022	2023
Apprentices, Co-Ops & Interns AEP helps train students from outside organizations that do not have internal training programs. 2023 data not limited to Department of Labor registered apprentice programs.	Transmission & Distribution Technical Training Apprentices	-	993	1,572
	Total External Transmission & Distribution Technical Training Students	-	42	113
	Total Co-Op Students, Interns & High School Interns	112	127	154

¹ As a percent of total employees ² As a percent of total opportunities/promotions



Workforce		2021	2022	2023
Employee Hires, Retention & Turnover	Total Hires	-	1,919	1,707
	Total Female Hires	_	490	425
	Female Hire Percent of Total New Hires	_	25.5%	24.9%
	Total Diverse Hires	_	509	431
	Diverse Hire Percent of Total New Hires	_	26.5%	25.2%
	Combined Voluntary & Involuntary Employee Turnover Rate ¹	10%	9.9%	8.4%
	Combined Voluntary & Involuntary Female Employee Turnover Rate ²	_	22.6%	24.1%
	Combined Voluntary & Involuntary Minority Employee Turnover Rate ²	_	21.5%	21.4%
	Total Employee Retention Rate ³	_	90%	93.0%
	Female Employee Retention Rate ⁴	_	88.9%	91.9%
	Minority Employee Retention Rate ⁵	_	89.5%	93.2%

¹As a percent of total employees

²As a percent of total turnover

 $^{^3}$ As a percent of total active employees as of 1/1/23

⁴As a percent of total active female employees as of 1/1/23

⁵As a percent of total active minority employees as of 1/1/23

Safety & Health		2021	2022	2023
Public Metrics	Public Fatalities Due to Electrical Contacts	5	2	6
Employee Metrics	Employee DART Rate	0.430	0.424	0.384
	Employee DART Rate Incidents	75	76	70
	Total Employee Recordable Incident Rate (TRIR)	0.648	0.719	0.690
	Employee Lost Time Incident Rate (LTIR)	0.333	0.312	0.279
	Total Employee OSHA Recordable Events	113	129	126
	Employee Fatalities	0	1	2
Contractor Metrics	Contractor DART Rate	0.407	0.438	0.380
AEP Contractors includes Forestry	Contractor DART Incidents	61	74	62
	Total Contractor Recordable Incident Rate (TRIR)	1.026	0.941	1.006
	Contractor Lost Time Incident Rate (LTIR)	0.213	0.296	0.190
	Total Contractor OSHA Recordable Events	154	159	164
	Contractor Fatalities	0	1	1
Employee and Contractor Metrics	Employee and Contractor DART Rate	0.419	0.430	0.382
AEP Contractors includes Forestry	Combined Employee & Contractor DART Events	136	150	132

Procurement		2021	2022	2023
Supplier Diversity	Total Supplier Spend	\$6.7 billion	\$8.5 billion	\$7.9 billion
	Managed Spend (Procurement Spend)	\$5.8 billion	\$7.4 billion	\$8.0 billion
	Diverse Supplier Spend	\$705 million	\$887 million	\$1.0 billion
	Percent Spend on Goods & Services from Diverse Suppliers ¹	12%	12%	13%
	Local Based Supplier Spend ²	\$3.4 billion	\$4.1 billion	\$4.1 billion
	Percent Spend on Locally Based Suppliers ³	51%	48%	52%
	Small Business Supplier Spend	\$964 million	\$1.3 billion	\$1.4 billion
	Percent Spend on Goods & Services from Small Business ³	14%	15%	17%

¹As a percent of total managed spend

³As a percent of total spend



²The term "locally" is used to describe businesses registered in the traditional 11 states in which AEP operates.



Governance

Governance		2022	2023	2024*
Governance Overview	Number of Board Meetings	7	8	8
	Average Board Meeting Attendance	97%	97%	99%
	Total Number on the Board of Directors	12	13	12
	Number of Independent Directors	11	11	11
	Independent Lead Director	No	Yes	NA
	Independent Board Chair	No	No	Yes
Director Tenure	0-5 years	5	7	9
	6-10 years	5	3	0
	11-18 years	2	3	3
	Average Years of Tenure	6.5	6.5	5.25
Director Age	40s	0	0	1
	50s	2	2	1
	60s	8	9	9
	70s	2	2	1
	Board Average Age	64	63.5	63

*As of March 31, 2024

AMERICAN ELECTRIC POWER

Governance

Governance		2022	2023	2024 ⁺
Director Gender	Men	8	7	7
	Women	4	6	5
Director Ethnic Diversity	White	9	9	8
	Hispanic	2	2	2
	African American or Black	1	2	2

*As of March 31, 2024





ESG Reports & Policies

Supplemental Environmental, Social & Governance Reports

- AEP's Climate Impact Analysis Report A TCFD Report (March 2021)
- 2024 GRI & SASB Report (ISSB S1)
- 2024 EEI ESG Investor Report To Come
- 2023 EEI Customer Emissions Report Online Access
- 2023 CDP Climate Report
- 2023 CDP Water Report
- 2024 EcoVadis Sustainability Scorecard
- 2024 ESG Data Center

Financial Disclosures

- 2024 Annual Meeting Proxy Statement
- 2023 Annual 10K
- 2022 Revenues from Coal
- 2023 Coal Generation Rate Base
- Sustainable Finance Framework
 - Second Party Opinion
- 2023 Report of Corporate Political & Social Welfare Organization Contributions and Trade Association Lobbying

Corporate Policies & Documents

- Environment, Safety and Health Policy
- Anti-Corruption Policy
- Human Rights Policy
- AEP Political Engagement Policy
- AEP Trade Association Climate Lobbying Report
- Environment and Social Justice Policy
- AEP Principles of Business Conduct
- Code of Business Conduct and Ethics for Directors
- AEP Supplier Code of Conduct
- Insider Trading Policy

Internal AEP Policies

To help ensure the safety and security of AEP's employees and operations, several AEP policies are internal policies and not shared publicly. AEP employees have access to appropriate policies through AEP's intranet site.

- Speak Up Policy (including Anti-Retaliation)
- AEP Employee Handbook
- Anti-Corruption Policy
- Conflicts of Interest and Annual Disclosure
- Gifts and Entertainment Policy
- Anti-Fraud Policies and Procedures
- PII Data Privacy Protection and Use Policy
- Travel Policy
- Records Retention Manual
- Antitrust Guidelines
- · FERC Compliance Manuals
- Enterprise Information Security Policy
- Security Information Classification Standards
- Appropriate Use of Company Assets
- Prohibition Against Pornography and Offensive Material Policy
- Social Media Policy
- Enterprise Policy Development & Maintenance Policy