



## 2023 EEI-AGA ESG/Sustainability Template

Published May 2023





# OUR SUSTAINABILITY APPROACH

Ameren has set ambitious goals to guide us on our path to a sustainable energy future. We strive to achieve net-zero carbon emissions by 2045, enabled by expanding our renewable energy resources without compromising on reliability or affordability.

We think about sustainability in the context of these four areas: Environmental Stewardship, Social Impact, Governance and Sustainable Growth. Here are some of the recent ways we've demonstrated our commitment to sustainability.



Learn more at  
[Ameren.com/Sustainability](https://Ameren.com/Sustainability)



## How we think about the Environment

Ameren is committed to clean. We have established a net-zero carbon emissions goal by 2045 across all its operations in Missouri and Illinois. In addition, we are making progress on our largest-ever expansion of clean wind and solar generation that maintains the reliability and affordability that customers have come to expect. The June 2022 change to our Integrated Resource Plan (IRP) is accelerating our clean energy investment plan for the next 20 years. The IRP includes reductions in coal generation and the addition of renewable and new dispatchable resources to ensure the reliability our customers depend on as we transition to a cleaner energy portfolio.

## How we think about Social Impact

Throughout 2022, we remained focused on our strict safety standards as we continued to deliver value for our customers. Ameren ranked in the top quartile for overall customer satisfaction in the Midwest for three consecutive years. In addition, we've provided approximately \$30 million in philanthropy alone in 2020-2022. We continued our commitment to diversity, equity & inclusion (DEI), being recognized by DiversityInc as No. 1 on their Top Utilities list, as well as a top company for ESG performance. Finally, our diverse supplier spend in 2022 was approximately \$1.1 billion, a 22% increase from 2021.

## How we think about Governance

In 2022, we realigned our organizational structure to meet the evolving needs of our customers. We optimized our organization by integrating DE&I and corporate philanthropy into sustainability. This includes the addition of Gwen Mizell, our first chief sustainability, diversity and philanthropy officer, as a member of Ameren's Executive Leadership Team, which is the highest level of leadership within the company. Ameren's short-term and long-term incentive compensation programs include performance measures tied to ESG metrics, including a 10% long-term incentive related to our clean energy transition and a 5% short-term incentive for supplier and workforce diversity.

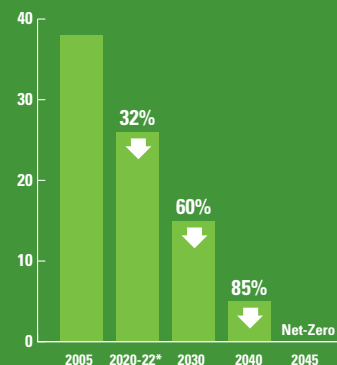
## How we think about Sustainable Growth

We are investing to modernize the energy grid, making it cleaner, safer, more reliable, resilient and secure through a robust \$48 billion pipeline of potential rate-regulated infrastructure investment opportunities between 2023 and 2032. Projects include continued modernization of both the electric and natural gas transmission and distribution grid, as well as renewable energy generation and transportation electrification investment opportunities.

## Conclusion

While no single report can capture every aspect of the company, significant efforts are made to provide information about our operations using a variety of recognized reporting frameworks. Additional materials describing Ameren's sustainability and ESG-related performance are available at [Ameren.com/Sustainability](https://Ameren.com/Sustainability) and [AmerenInvestors.com](https://AmerenInvestors.com).

## TARGET TO ACHIEVE NET-ZERO CARBON EMISSIONS BY 2045<sup>1</sup>



\* Three-year average CO2 emissions for 2020, 2021, and 2022.

1. Ameren's goals encompass both Scope 1 and Scope 2 emissions including other greenhouse gas emissions of methane, nitrous oxide and sulfur hexafluoride.



### \$145M

aggregate philanthropy  
and energy assistance  
from 2020-2022



### \$3B

energy efficiency  
net benefit to customers  
between 2012 and 2021



### \$200M

in annual energy  
efficiency programs



### \$1.1B

spent with diverse  
suppliers in 2022



### \$48B

potential investments  
to modernize  
the energy grid  
2023-2032



# EEI AGA ESG/Sustainability Template – Section 2: Quantitative Information

[Download Excel Format](#)

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Parent Company: **Ameren Corporation (AEE)**  
 Operating Company(s): **Consolidated Ameren Results**  
 Business Type(s): **Rate-regulated electric and natural gas utilities**  
 State(s) of Operation: **Missouri and Illinois (Ameren Illinois owns no generation)**  
 State(s) with RPS: **Missouri and Illinois**  
 Regulatory Environment: **Regulated**  
 Report Date: **May 2023**

		Baseline						
Ref. No.	Refer to the 'EEI Definitions' tab for more information on each metric	2005	2018	2019	2020	2021	2022	Notes
Portfolio								
1	Owned Nameplate Generation Capacity at end of year (MW)							A
1.1	Coal	5,654	5,379	5,379	5,514	5,514	5,514	
1.2	Natural Gas	1,578	3,761	3,761	3,418	3,418	3,418	
1.3	Nuclear	1,236	1,236	1,236	1,236	1,236	1,236	
1.4	Petroleum	397	312	312	292	292	230	
1.5	Total Renewable Energy Resources							
1.5.1	Biomass/Biogas	0	15	14	14	14	14	
1.5.2	Geothermal	0	0	0	0	0	0	
1.5.3	Hydroelectric	741	741	741	838	838	838	
1.5.4	Solar	0	6	8	8	8	15	
1.5.5	Wind	0	0	0	699	699	699	
1.6	Other	0	0	0	0	0	0	
2	Net Generation for the data year (MWh)							B
2.1	Coal	41,901,651	30,506,684	25,067,412	26,746,679	29,198,835	25,128,522	A
2.2	Natural Gas	480,888	465,026	190,452	224,926	398,524	538,184	A
2.3	Nuclear	8,020,472	10,655,278	9,189,864	7,717,598	4,187,196	8,860,773	C
2.4	Petroleum	41,076	4,344	4,488	760	11,254	5,435	A
2.5	Total Renewable Energy Resources							
2.5.1	Biomass/Biogas	0	34,495	52,483	62,669	71,550	53,357	
2.5.2	Geothermal	0	0	0	0	0	0	
2.5.3	Hydroelectric	1,236,794	1,129,399	1,978,567	1,795,659	1,698,890	1,288,544	
2.5.4	Solar	0	5,996	7,145	9,332	9,291	18,443	
2.5.5	Wind	0	277,653	276,564	269,579	1,723,907	2,261,273	D
2.6	Other	0	0	0	0	0	0	
2.ii	Purchase Net Generation for the Data Year (MWh)	41,568,565	11,385,085	11,751,484	11,586,013	11,365,454	13,621,116	
3	Investing in the Future: Capital Expenditures, Energy Efficiency (EE), and Smart Meters							E, G
3.1	Total Annual Capital Expenditures (\$_,000s)	\$1,039,000	\$2,286,000	\$2,411,000	\$3,233,000	\$3,479,000	\$3,351,000	
3.2	Incremental Annual Electricity Savings from EE Measures (MWh)	F	743,722	724,031	726,666	723,504	577,128	
3.3	Incremental Annual Investment in Electric EE Programs (\$_,000s)	F	\$160,945	\$162,451	\$159,288	\$163,012	\$158,887	
4	Retail Electric Customer Count							
4.1	Commercial	298,048	320,359	322,594	323,474	327,719	330,678	
4.2	Industrial	8,388	4,950	4,817	4,727	4,665	4,595	
4.3	Residential	2,103,044	2,118,964	2,125,169	2,132,265	2,140,462	2,144,218	



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**Operating Company(s):** Consolidated Ameren Results  
**Business Type(s):** Rate-regulated electric and natural gas utilities  
**State(s) of Operation:** Missouri and Illinois (Ameren Illinois owns no generation)  
**State(s) with RPS** Missouri and Illinois  
**Regulatory Environment:** Regulated  
**Report Date:** May 2023

		Baseline						
Ref. No.	Refer to the 'EEI Definitions' tab for more information on each metric	2005	2018	2019	2020	2021	2022	Notes
Emissions								
5	GHG Emissions: Carbon Dioxide (CO2) and Carbon Dioxide Equivalent (CO2e)							
5.1	Owned Generation							
5.1.1	Carbon Dioxide (CO2)							
5.1.1.1	Total Owned Generation CO2 Emissions (MT)	38,113,792	29,116,999	24,017,003	25,558,422	27,764,077	24,553,847	A, H
5.1.1.2	Total Owned Generation CO2 Emissions Intensity (MT/Net MWh)	0.737	0.680	0.658	0.699	0.749	0.649	
5.1.2	Carbon Dioxide Equivalent (CO2e)							
5.1.2.1	Total Owned Generation CO2e Emissions (MT)	38,419,673	29,344,948	24,205,850	25,759,240	27,981,535	24,745,347	A, H
5.1.2.2	Total Owned Generation CO2e Emissions Intensity (MT/Net MWh)	0.743	0.686	0.663	0.704	0.755	0.654	
5.2	Purchased Power							
5.2.1	Carbon Dioxide (CO2)							
5.2.1.1	Total Purchased Generation CO2 Emissions (MT)	33,394,834	6,508,536	6,083,194	6,025,313	5,411,746	7,449,133	I
5.2.1.2	Total Purchased Generation CO2 Emissions Intensity (MT/Net MWh)	0.803	0.572	0.518	0.520	0.476	0.547	I
5.2.2	Carbon Dioxide Equivalent (CO2e)							
5.2.2.1	Total Purchased Generation CO2e Emissions (MT)	N/A	6,552,023	6,121,318	6,063,090	5,443,846	7,505,670	I, M
5.2.2.2	Total Purchased Generation CO2e Emissions Intensity (MT/Net MWh)	N/A	0.575	0.521	0.523	0.479	0.551	I, M
5.3	Owned Generation + Purchased Power							
5.3.1	Carbon Dioxide (CO2)							
5.3.1.1	Total Owned + Purchased Generation CO2 Emissions (MT)	69,149,041	35,625,535	30,100,197	31,583,735	33,175,823	32,002,980	I
5.3.1.2	MWh)	0.758	0.657	0.624	0.656	0.685	0.622	I
5.3.2	Carbon Dioxide Equivalent (CO2e)							
5.3.2.1	Total Owned + Purchased Generation CO2e Emissions (MT)	N/A	35,896,971	30,327,168	31,822,330	33,425,381	32,251,017	I, M
5.3.2.2	MWh)	N/A	0.662	0.629	0.661	0.690	0.627	I, M
5.4	Non-Generation CO2e Emissions of Sulfur Hexafluoride (SF6)							
5.4.1	Total CO2e emissions of SF6 (lbs)	N/A	98,936,732	43,192,915	28,461,644	34,623,684	45,877,946	M
5.4.2	Leak rate of CO2e emissions of SF6 (lbs/Net MWh)	N/A	2.31	1.18	0.78	0.93	1.21	M
6	Nitrogen Oxide (NOx), Sulfur Dioxide (SO2), Mercury (Hg)	Total						
6.1	Generation basis for calculation							
6.2	Nitrogen Oxide (NOx)							
6.2.1	Total NOx Emissions (MT)	31,041	16,403	13,026	13,053	15,375	13,705	
6.2.2	Total NOx Emissions Intensity (MT/Net MWh)	0.000601	0.000383	0.000357	0.000357	0.000415	0.000362	



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**Operating Company(s):** Consolidated Ameren Results  
**Business Type(s):** Rate-regulated electric and natural gas utilities  
**State(s) of Operation:** Missouri and Illinois (Ameren Illinois owns no generation)  
**State(s) with RPS** Missouri and Illinois  
**Regulatory Environment:** Regulated  
**Report Date:** May 2023

Ref. No.	Refer to the 'EEI Definitions' tab for more information on each metric	Baseline						
		2005	2018	2019	2020	2021	2022	Notes
<b>6.3</b>	<b>Sulfur Dioxide (SO<sub>2</sub>)</b>							
6.3.1	Total SO <sub>2</sub> Emissions (MT)	158,820	52,461	46,458	52,805	58,985	52,638	
6.3.2	Total SO <sub>2</sub> Emissions Intensity (MT/Net MWh)	0.003073	0.001226	0.001273	0.001444	0.001591	0.001392	
<b>6.4</b>	<b>Mercury (Hg)</b>							
6.4.1	Total Hg Emissions (kg)	1,181	116	94	109	116	110	
6.4.2	Total Hg Emissions Intensity (kg/Net MWh)	0.000023	0.000003	0.000003	0.000003	0.000003	0.000003	
<b>Resources</b>								
<b>7</b>	<b>Human Resources</b>							
7.1	Total Number of Employees	9,136	8,838	9,323	9,183	9,116	9,244	J
7.2	Percentage of Women in Total Workforce	22 %	24 %	24 %	25 %	24 %	24 %	J
7.3	Percentage of Minorities in Total Workforce	14 %	15 %	15 %	15 %	16 %	16 %	J
7.4	Total Number of Board of Directors/Trustees	11	14	13	14	14	14	J
7.5	Total Percentage of Women on Board of Directors/Trustees	18 %	29 %	31 %	29 %	29 %	29 %	J
7.6	Total Percentage of Minorities on Board of Directors/Trustees	9 %	21 %	23 %	29 %	29 %	29 %	J
7.7	Employee Safety Metrics							
7.7.1	Recordable Incident Rate	4.25	1.29	1.25	0.77	1.05	1.11	
7.7.2	Lost-time Case Rate	0.98	0.31	0.27	0.20	0.36	0.27	
7.7.3	Days Away, Restricted, and Transfer (DART) Rate	2.42	0.79	0.62	0.44	0.68	0.70	
7.7.4	Work-related Fatalities	1	0	0	1	0	0	
<b>8</b>	<b>Fresh Water Resources used in Thermal Power Generation Activities</b>							
8.1	Water Withdrawals - Consumptive (Millions of Gallons)	N/A	9,534	8,216	6,161	4,895	7,859	K, M
8.2	Water Withdrawals - Non-Consumptive (Millions of Gallons)	N/A	1,126,859	1,129,019	1,108,438	1,125,062	1,087,062	K, M
8.3	Water Withdrawals - Consumptive Rate (Millions of Gallons/Net MWh)	N/A	0.0002	0.0002	0.0002	0.0001	0.0002	K, M
8.4	Water Withdrawals - Non-Consumptive Rate (Millions of Gallons/Net MWh)	N/A	0.0263	0.0309	0.0303	0.0303	0.0287	K, M
<b>9</b>	<b>Waste Products</b>							
9.1	Amount of Hazardous Waste Manifested for Disposal (MT)	N/A	N/A	N/A	N/A	67.97	25.97	N
9.2	Percent of Coal Combustion Products Beneficially Used	54 %	53 %	57 %	76 %	73 %	69 %	L

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N/A Data is not available.



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**Parent Company:** *Ameren Corporation (AEE)*  
**Operating Company(s):** *Consolidated Ameren Results*  
**Business Type(s):** *Rate-regulated electric and natural gas utilities*  
**State(s) of Operation:** *Missouri and Illinois (Ameren Illinois owns no generation)*  
**State(s) with RPS** *Missouri and Illinois*  
**Regulatory Environment:** *Regulated*  
**Report Date:** *May 2023*

**A** The 2005 data provided for (2) Net Generation and (5.1) Owned Generation excludes information related to the energy centers Ameren divested in late 2013 and early 2014 but includes information related to our Meredosia and Hutsonville Energy Centers, which were closed prior to 2015. The 2005 data for (1) Owned Nameplate Generation Capacity was not available for Meredosia or Hutsonville Energy Centers. All other 2005 data in Section 2 of this report does not include amounts related to the Meredosia or Hutsonville Energy Centers or the divested energy centers.

**B** Owned generation totals, which exclude all purchased power attributable to a long-term wind purchased power agreement, are as follows:

2005	2018	2019	2020	2021	2022
51,680,881	42,801,222	36,490,411	36,588,358	37,074,516	37,827,380

**C** Refueling and maintenance outages at Callaway (nuclear) occurred in 2005, 2017, 2019, 2020, and 2022; and a forced outage occurred in December 2020 and extended into 2021. The last refueling was completed in May 2022. The next refueling is scheduled for the fall of 2023.

**D** Wind is a combination of purchased and owned generation. All other generation is owned. The portion of wind attributable to purchased power is as follows:

2005	2018	2019	2020	2021	2022
0	277,653	276,564	238,844	224,932	327,153

**E** The 2005 data provided includes capital expenditures applicable to our rate regulated electric and gas utilities.

**F** Energy-efficiency measures are not applicable as programs did not exist in 2005.

**G** Includes \$564 million at Ameren and Ameren Missouri for the acquisition of the High Prairie Renewable Energy Center for the year ended December 31, 2020.

**H** The 2005 data for (5.1.1.1) Total Owned Generation CO<sub>2</sub> Emissions (MT) and (5.1.2.1) Total Owned Generation CO<sub>2</sub>e Emissions (MT) utilizes 40 CFR, Part 98, Subparts C and D methodology and emissions data collected in accordance with the requirements of 40 CFR, Part 75.

**I** Purchased power carbon dioxide data includes estimated emissions from PPAs and market purchases. E-Grid emissions factors were used. The intensity data includes energy from Ameren Missouri's long-term wind purchased power agreement.

**J** Count provided is as of December 31st of a given year.

**K** Water data has been expanded in 2018 to include that used for our combustion turbine generation (CTG)

**L** In 2005, the scrubbers at the Sioux Energy Center were not installed.

**M** N/A for 2005 due to lack of requirements to report these data at the time (for fugitive emissions) or due to the lack of CO<sub>2</sub>e emissions factors in the E-Grid database that was used (for power purchase emissions calculations).

**N** Data was unavailable before 2021. A new system was implemented in 2020, ensuring complete collection of hazardous waste data for reporting.



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**Parent Company:** Ameren Corporation (AEE)  
**Operating Company(s):** Union Electric Company (d/b/a Ameren Missouri)  
**Business Type(s):** Rate-regulated electric and natural gas utilities  
**State(s) of Operation:** Missouri, with several generation facilities located in Illinois  
**State(s) with RPS** Missouri  
**Regulatory Environment:** Regulated  
**Report Date:** May 2023

		Baseline						
Ref. No.	Refer to the 'EEI Definitions' tab for more information on each metric	2005	2018	2019	2020	2021	2022	Notes
Portfolio								
1	Owned Nameplate Generation Capacity at end of year (MW)							
1.1	Coal	5,654	5,379	5,379	5,514	5,514	5,514	
1.2	Natural Gas	1,578	3,761	3,761	3,418	3,418	3,418	
1.3	Nuclear	1,236	1,236	1,236	1,236	1,236	1,236	
1.4	Petroleum	397	312	312	292	292	230	
1.5	Total Renewable Energy Resources			0				
1.5.1	Biomass/Biogas	0	15	14	14	14	14	
1.5.2	Geothermal	0	0	0	0	0	0	
1.5.3	Hydroelectric	741	741	741	838	838	838	
1.5.4	Solar	0	6	8	8	8	15	
1.5.5	Wind	0	0	0	699	699	699	
1.6	Other	0	0	0	0	0	0	
2	Net Generation for the data year (MWh)							A
2.1	Coal	39,887,610	30,506,684	25,067,412	26,746,679	29,198,835	25,128,522	
2.2	Natural Gas	480,792	465,026	190,452	224,926	398,524	538,184	
2.3	Nuclear	8,020,472	10,655,278	9,189,864	7,717,598	4,187,196	8,860,773	B
2.4	Petroleum	1,330	4,344	4,488	760	11,254	5,435	
2.5	Total Renewable Energy Resources							
2.5.1	Biomass/Biogas	0	34,495	52,483	62,669	71,550	53,357	
2.5.2	Geothermal	0	0	0	0	0	0	
2.5.3	Hydroelectric	1,236,794	1,129,399	1,978,567	1,795,659	1,698,890	1,288,544	
2.5.4	Solar	0	5,996	7,145	9,332	9,291	18,443	
2.5.5	Wind	0	277,653	276,564	269,579	1,723,907	2,261,273	C
2.6	Other							
2.ii	Purchase Net Generation for the Data Year (MWh)	5,814,276	2,206,554	2,991,045	3,063,778	2,925,871	3,085,360	
3	Investing in the Future: Capital Expenditures, Energy Efficiency (EE), and Smart Meters							
3.1	Total Annual Capital Expenditures (\$_,000)	\$787,000	\$914,000	\$1,076,000	\$1,666,000	\$2,015,000	\$1,690,000	E
3.2	Incremental Annual Electricity Savings from EE Measures (MWh)	D	362,565	390,707	356,818	366,941	206,614	
3.3	Incremental Annual Investment in Electric EE Programs (\$_,000)	D	\$62,253	\$66,444	\$60,985	\$78,117	\$69,036	
4	Retail Electric Customer Count							
4.1	Commercial	149,128	159,140	160,375	159,512	163,149	164,241	
4.2	Industrial	6,771	3,961	3,837	3,754	3,678	3,630	
4.3	Residential	1,064,973	1,060,493	1,066,035	1,071,999	1,077,436	1,082,243	



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Parent Company: **Ameren Corporation (AEE)**  
 Operating Company(s): **Union Electric Company (d/b/a Ameren Missouri)**  
 Business Type(s): **Rate-regulated electric and natural gas utilities**  
 State(s) of Operation: **Missouri, with several generation facilities located in Illinois**  
 State(s) with RPS: **Missouri**  
 Regulatory Environment: **Regulated**  
 Report Date: **May 2023**

		Baseline						
Ref. No.	Refer to the 'EEI Definitions' tab for more information on each metric	2005	2018	2019	2020	2021	2022	Notes
Emissions								
5	GHG Emissions: Carbon Dioxide (CO2) and Carbon Dioxide Equivalent (CO2e)							
5.1	Owned Generation							
5.1.1	Carbon Dioxide (CO2)							
5.1.1.1	Total Owned Generation CO2 Emissions (MT)	35,754,207	29,116,999	24,017,003	25,558,422	27,764,077	24,553,847	F
5.1.1.2	Total Owned Generation CO2 Emissions Intensity (MT/Net MWh)	0.720	0.680	0.658	0.699	0.749	0.649	
5.1.2	Carbon Dioxide Equivalent (CO2e)							
5.1.2.1	Total Owned Generation CO2e Emissions (MT)	36,040,935	29,344,948	24,205,850	25,759,240	27,981,535	24,745,347	F
5.1.2.2	Total Owned Generation CO2e Emissions Intensity (MT/Net MWh)	0.726	0.686	0.663	0.704	0.755	0.654	
5.2	Purchased Power							
5.2.1	Carbon Dioxide (CO2)							
5.2.1.1	Total Purchased Generation CO2 Emissions (MT)	5,336,946	1,125,604	1,425,761	1,494,521	1,307,264	2,009,880	G
5.2.1.2	Total Purchased Generation CO2 Emissions Intensity (MT/Net MWh)	0.918	0.510	0.477	0.488	0.447	0.651	G
5.2.2	Carbon Dioxide Equivalent (CO2e)							
5.2.2.1	Total Purchased Generation CO2e Emissions (MT)	N/A	1,133,120	1,434,679	1,503,885	1,315,016	2,032,319	G, L
5.2.2.2	Total Purchased Generation CO2e Emissions Intensity (MT/Net MWh)	N/A	0.514	0.480	0.491	0.449	0.659	G, L
5.3	Owned Generation + Purchased Power							
5.3.1	Carbon Dioxide (CO2)							
5.3.1.1	Total Owned + Purchased Generation CO2 Emissions (MT)	41,091,153	30,242,603	25,442,764	27,052,942	29,071,341	26,563,727	G
5.3.1.2	Total Owned + Purchased Generation CO2 Emissions Intensity (MT/Net MWh)	0.741	0.672	0.644	0.682	0.727	0.649	G
5.3.2	Carbon Dioxide Equivalent (CO2e)							
5.3.2.1	Total Owned + Purchased Generation CO2e Emissions (MT)	N/A	30,478,068	25,640,529	27,263,125	29,296,552	26,777,666	G, L
5.3.2.2	Total Owned + Purchased Generation CO2e Emissions Intensity (MT/Net MWh)	N/A	0.677	0.649	0.688	0.732	0.655	G, L
5.4	Non-Generation CO2e Emissions of Sulfur Hexafluoride (SF6)							
5.4.1	Total CO2e emissions of SF6 (lbs)	N/A	32,421,142	23,690,847	11,607,324	12,653,963	28,973,956	L
5.4.2	Leak rate of CO2e emissions of SF6 (lbs/Net MWh)	N/A	0.76	0.65	0.32	0.34	0.77	L
6	Nitrogen Oxide (NOx), Sulfur Dioxide (SO2), Mercury (Hg)	Total						
6.1	Generation basis for calculation							
6.2	Nitrogen Oxide (NOx)	27,238	16,403	13,026	13,053	15,375	13,705	
6.2.1	Total NOx Emissions (MT)	0.000549	0.000383	0.000357	0.000357	0.000415	0.00036	
6.2.2	Total NOx Emissions Intensity (MT/Net MWh)							





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**Parent Company:** Ameren Corporation (AEE)  
**Operating Company(s):** Union Electric Company (d/b/a Ameren Missouri)  
**Business Type(s):** Rate-regulated electric and natural gas utilities  
**State(s) of Operation:** Missouri, with several generation facilities located in Illinois  
**State(s) with RPS** Missouri  
**Regulatory Environment:** Regulated  
**Report Date:** May 2023

Ref. No.	Refer to the 'EEI Definitions' tab for more information on each metric	Baseline						
		2005	2018	2019	2020	2021	2022	Notes
<b>6.3</b>	<b>Sulfur Dioxide (SO<sub>2</sub>)</b>	138,947	52,461	46,458	52,805	58,985	52,638	
6.3.1	Total SO <sub>2</sub> Emissions (MT)	0.002800	0.001226	0.001273	0.001444	0.001591	0.00139	
6.3.2	Total SO <sub>2</sub> Emissions Intensity (MT/Net MWh)							
<b>6.4</b>	<b>Mercury (Hg)</b>	1,119	116	94	109	116	110	
6.4.1	Total Hg Emissions (kg)	0.000023	0.000003	0.000003	0.000003	0.000003	0.000003	
6.4.2	Total Hg Emissions Intensity (kg/Net MWh)							
<b>Resources</b>								
<b>7</b>	<b>Human Resources</b>							
7.1	Total Number of Employees	3,791	3,798	4,072	3,997	3,998	4,039	H
7.2	Percentage of Women in Total Workforce	13 %	17 %	17 %	17 %	17 %	17 %	H
7.3	Percentage of Minorities in Total Workforce	15 %	14 %	14 %	14 %	15 %	14 %	H
7.4	Total Number of Board of Directors/Trustees	11	14	13	14	14	14	H, I
7.5	Total Percentage of Women on Board of Directors/Trustees	18 %	29 %	31 %	29 %	29 %	29 %	H, I
7.6	Total Percentage of Minorities on Board of Directors/Trustees	9 %	21 %	23 %	29 %	29 %	29 %	H, I
7.7	Employee Safety Metrics							
7.7.1	Recordable Incident Rate	5.26	1.55	1.76	0.96	0.84	1.68	
7.7.2	Lost-time Case Rate	1.37	0.43	0.38	0.21	0.18	0.39	
7.7.3	Days Away, Restricted, and Transfer (DART) Rate	3.64	0.89	0.82	0.52	0.50	1.10	
7.7.4	Work-related Fatalities	0	0	0	0	0	0	
<b>8</b>	<b>Fresh Water Resources used in Thermal Power Generation Activities</b>							
8.1	Water Withdrawals - Consumptive (Millions of Gallons)	N/A	10,934	9,466	6,161	4,895	7,859	J
8.2	Water Withdrawals - Non-Consumptive (Millions of Gallons)	N/A	1,125,459	1,127,624	1,108,438	1,125,062	1,087,062	J
8.3	Water Withdrawals - Consumptive Rate (Millions of Gallons/Net MWh)	N/A	0.0003	0.0003	0.0002	0.0001	0.0002	J
8.4	Water Withdrawals - Non-Consumptive Rate (Millions of Gallons/Net MWh)	N/A	0.0263	0.0309	0.0303	0.0303	0.0287	J
<b>9</b>	<b>Waste Products</b>							
9.1	Amount of Hazardous Waste Manifested for Disposal (MT)	N/A	N/A	N/A	N/A	14.59	11.30	M
9.2	Percent of Coal Combustion Products Beneficially Used	54 %	53 %	57 %	76 %	73 %	69 %	K

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N/A Data is not available.



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**Parent Company:** *Ameren Corporation (AEE)*  
**Operating Company(s):** *Union Electric Company (d/b/a Ameren Missouri)*  
**Business Type(s):** *Rate-regulated electric and natural gas utilities*  
**State(s) of Operation:** *Missouri, with several generation facilities located in Illinois*  
**State(s) with RPS** *Missouri*  
**Regulatory Environment:** *Regulated*  
**Report Date:** *May 2023*

**A** Owned generation totals, which exclude all purchased power attributable to a long-term wind purchased power agreement, are as follows:

2005	2018	2019	2020	2021	2022
49,626,998	42,801,222	36,490,411	36,588,358	37,074,516	37,827,380

**B** Refueling and maintenance outages at Callaway (nuclear) occurred in 2005, 2017, 2019, 2020, and 2022; and a forced outage occurred in December 2020 and extended into 2021. The last refueling was completed in May 2022. The next refueling is scheduled for the fall of 2023.

**C** Wind is a combination of purchased and owned generation. All other generation is owned. The portion of wind attributable to purchased power is as follows:

2005	2018	2019	2020	2021	2022
0	277,653	276,564	238,844	224,932	327,153

**D** Energy efficiency measures are not applicable as programs did not exist in 2005.

**E** Includes \$564 million at Ameren and Ameren Missouri for the acquisition of the High Prairie Renewable Energy Center for the year ended December 31, 2020

**F** The 2005 data for (5.1.1.1) Total Owned Generation CO<sub>2</sub> Emissions (MT) and (5.1.2.1) Total Owned Generation CO<sub>2</sub>e Emissions (MT) utilizes 40 CFR, Part 98, Subparts C and D methodology and emissions data collected in accordance with the requirements of 40 CFR, Part 75.

**G** Purchased power carbon dioxide data includes estimated emissions from PPAs and market purchases. E-Grid emissions factors were used. The intensity data includes energy from Ameren Missouri's long-term wind purchased power agreement.

**H** Count provided is as of December 31st of a given year.

**I** Amounts represent statistics of Ameren Corporation's (AEE) board of directors.

**J** Water data has been expanded in 2018 to include that used for our combustion turbine generation (CTG).

**K** In 2005, the scrubbers at the Sioux Energy Center were not installed.

**L** N/A for 2005 due to lack of requirements to report these data at the time (for fugitive emissions) or due to the lack of CO<sub>2</sub>e emissions factors in the E-Grid database that was used (for power purchase emissions calculations).

**M** Data was unavailable before 2021. A new system was implemented in 2020, ensuring complete collection of hazardous waste data for reporting.



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**Parent Company:** Ameren Corporation (AEE)  
**Operating Company(s):** Ameren Illinois Company  
**Business Type(s):** Rate-regulated electric transmission, electric distribution, and natural gas distribution businesses  
**State(s) of Operation:** Illinois  
**State(s) with RPS:** Illinois  
**Regulatory Environment:** Regulated  
**Report Date:** May 2023

		Baseline						
Ref. No.	Refer to the 'EEI Definitions' tab for more information on each metric	2005	2018	2019	2020	2021	2022	Notes
Portfolio								
2.ii	Purchase Net Generation for the Data Year (MWh)	35,754,289	9,178,531	8,760,439	8,522,235	8,439,583	10,535,756	
3	Investing in the Future: Capital Expenditures, Energy Efficiency (EE), and Smart Meters							
3.1	Total Annual Capital Expenditures (\$_,000s)	\$252,000	\$1,258,000	\$1,208,000	\$1,447,000	\$1,432,000	\$1,601,000	
3.2	Incremental Annual Electricity Savings from EE Measures (MWh)	A	381,157	333,324	369,848	356,563	370,514	
3.3	Incremental Annual Investment in Electric EE Programs (\$_,000s)	A	\$98,692	\$96,008	\$98,303	\$84,895	\$89,850	
4	Retail Electric Customer Count							
4.1	Commercial	N/A	161,219	162,219	163,962	164,570	166,437	
4.2	Industrial	N/A	989	980	973	987	965	
4.3	Residential	N/A	1,058,471	1,059,134	1,060,266	1,063,026	1,061,975	
Emissions								
5	GHG Emissions: Carbon Dioxide (CO2) and Carbon Dioxide Equivalent (CO2e)							
5.2	Purchased Power							
5.2.1	Carbon Dioxide (CO2)							
5.2.1.1	Total Purchased Generation CO2 Emissions (MT)	28,057,888	5,382,932	4,657,432	4,530,793	4,104,482	5,439,253	B
5.2.1.2	Total Purchased Generation CO2 Emissions Intensity (MT/Net MWh)	0.785	0.586	0.532	0.532	0.486	0.516	B
5.2.2	Carbon Dioxide Equivalent (CO2e)							
5.2.2.1	Total Purchased Generation CO2e Emissions (MT)	N/A	5,418,903	4,686,639	4,559,205	4,128,829	5,473,351	B, E
5.2.2.2	Total Purchased Generation CO2e Emissions Intensity (MT/Net MWh)	N/A	0.590	0.535	0.535	0.489	0.520	B, E
5.4	Non-Generation CO2e Emissions of Sulfur Hexafluoride (SF6) (5)							
5.4.1	Total CO2e emissions of SF6 (lbs)	N/A	66,515,590	19,502,069	16,854,320	21,969,721	16,903,991	E
5.4.2	Leak rate of CO2e emissions of SF6 (lbs/Net MWh)	N/A	1.55	0.53	0.46	0.59	0.45	E
6	Nitrogen Oxide (NOx), Sulfur Dioxide (SO2), Mercury (Hg)							
6.1	Generation basis for calculation	Other						





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**Parent Company:** Ameren Corporation (AEE)  
**Operating Company(s):** Ameren Illinois Company  
**Business Type(s):** Rate-regulated electric transmission, electric distribution, and natural gas distribution businesses  
**State(s) of Operation:** Illinois  
**State(s) with RPS:** Illinois  
**Regulatory Environment:** Regulated  
**Report Date:** May 2023

		Baseline						
Ref. No.	Refer to the 'EEI Definitions' tab for more information on each metric	2005	2018	2019	2020	2021	2022	Notes
Resources								
7	Human Resources							
7.1	Total Number of Employees	2,799	3,458	3,476	3,304	3,239	3,243	C
7.2	Percentage of Women in Total Workforce	25 %	25 %	25 %	24 %	24 %	23 %	C
7.3	Percentage of Minorities in Total Workforce	12 %	13 %	13 %	13 %	13 %	13 %	C
7.4	Total Number of Board of Directors/Trustees	11	14	13	14	14	14	C, D
7.5	Total Percentage of Women on Board of Directors/Trustees	18 %	29 %	31 %	29 %	29 %	29 %	C, D
7.6	Total Percentage of Minorities on Board of Directors/Trustees	9 %	21 %	23 %	29 %	29 %	29 %	C, D
7.7	Employee Safety Metrics							
7.7.1	Recordable Incident Rate	5.49	1.45	1.33	0.95	1.74	1.09	
7.7.2	Lost-time Case Rate	1.13	0.24	0.33	0.24	0.74	0.26	
7.7.3	Days Away, Restricted, and Transfer (DART) Rate	2.41	0.91	0.72	0.55	1.16	0.61	
7.7.4	Work-related Fatalities	1	0	0	1	0	0	
8	Fresh Water Resources used in Thermal Power Generation Activities							
8.1	Water Withdrawals - Consumptive (Millions of Gallons)	N/A	N/A	N/A	N/A	N/A	N/A	
8.2	Water Withdrawals - Non-Consumptive (Millions of Gallons)	N/A	N/A	N/A	N/A	N/A	N/A	
8.3	Water Withdrawals - Consumptive Rate (Millions of Gallons/Net MWh)	N/A	N/A	N/A	N/A	N/A	N/A	
8.4	Water Withdrawals - Non-Consumptive Rate (Millions of Gallons/Net MWh)	N/A	N/A	N/A	N/A	N/A	N/A	
9	Waste Products							
9.1	Amount of Hazardous Waste Manifested for Disposal (MT)	N/A	N/A	N/A	N/A	53.38	14.67	F
9.2	Percent of Coal Combustion Products Beneficially Used	N/A	N/A	N/A	N/A	N/A	N/A	

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N/A Data is not available.

**A** Energy efficiency measures are not applicable as programs did not exist in 2005.

**B** Purchased power carbon dioxide data includes estimated emissions from PPAs and market purchases. E-Grid emissions factors were used.

**C** Count provided is as of December 31st of a given year.

**D** Amounts represent statistics of Ameren Corporation's (AEE) board of directors.

**E** N/A for 2005 due to lack of requirements to report these data at the time (for fugitive emissions) or due to the lack of CO<sub>2</sub>e emissions factors in the E-Grid database that was used (for power purchase emissions calculations).

**F** Data was unavailable before 2021. A new system was implemented in 2020, ensuring complete collection of hazardous waste data for reporting.

Definitions for EEI ESG/Sustainability Metrics

Ref. No.	Metric Name	Definition	Units Reported in	Time Period (if applicable)	Reference to Source (if applicable)
Portfolio					
1	Owned Nameplate Generation Capacity at end of year (MW)	Provide generation capacity data that is consistent with other external reporting by your company. The alternative default is to use the summation of the nameplate capacity of installed owned generation in the company portfolio, as reported to the U.S. Energy Information Administration (EIA) on Form 860 Generator Information. Note that data should be provided in terms of equity ownership for shared facilities. Nameplate capacity is defined as the maximum rated output of a generator, prime mover, or other electric power production equipment under specific conditions designated by the manufacturer. Installed generator nameplate capacity is commonly expressed in megawatts (MW) and is usually indicated on a nameplate physically attached to the generator.	Megawatt (MW): One million watts of electricity.	End of Year	U.S. Energy Information Administration, Online Glossary, <a href="https://www.eia.gov/tools/glossary/">https://www.eia.gov/tools/glossary/</a> . Form 860 instructions available at: <a href="http://www.eia.gov/survey/form/eia_860/instructions.pdf">www.eia.gov/survey/form/eia_860/instructions.pdf</a> .
1.1	Coal	Nameplate capacity of generation resources that produce electricity through the combustion of coal (a readily combustible black or brownish-black rock whose composition, including inherent moisture, consists of more than 50 percent by weight and more than 70 percent by volume of carbonaceous material. It is formed from plant remains that have been compacted, hardened, chemically altered, and metamorphosed by heat and pressure over geologic time).	MW	End of Year	U.S. Energy Information Administration, Online Glossary, <a href="https://www.eia.gov/tools/glossary/">https://www.eia.gov/tools/glossary/</a> .
1.2	Natural Gas	Nameplate capacity of generation resources that produce electricity through the combustion of natural gas (a gaseous mixture of hydrocarbon compounds, the primary one being methane).	MW	End of Year	U.S. Energy Information Administration, Online Glossary, <a href="https://www.eia.gov/tools/glossary/">https://www.eia.gov/tools/glossary/</a> .
1.3	Nuclear	Nameplate capacity of generation resources that produce electricity through the use of thermal energy released from the fission of nuclear fuel in a reactor.	MW	End of Year	U.S. Energy Information Administration, Online Glossary, <a href="https://www.eia.gov/tools/glossary/">https://www.eia.gov/tools/glossary/</a> .
1.4	Petroleum	Nameplate capacity of generation resources that produce electricity through the combustion of petroleum (a broadly defined class of liquid hydrocarbon mixtures. Included are crude oil, lease condensate, unfinished oils, refined products obtained from the processing of crude oil, and natural gas plant liquids).	MW	End of Year	U.S. Energy Information Administration, Online Glossary, <a href="https://www.eia.gov/tools/glossary/">https://www.eia.gov/tools/glossary/</a> .
1.5	Total Renewable Energy Resources	Energy resources that are naturally replenishing but flow-limited. They are virtually inexhaustible in duration but limited in the amount of energy that is available per unit of time. Renewable energy resources include biomass, hydro, geothermal, solar, wind, ocean thermal, wave action, and tidal action.	MW	End of Year	U.S. Energy Information Administration, Online Glossary, <a href="https://www.eia.gov/tools/glossary/">https://www.eia.gov/tools/glossary/</a> .
1.5.1	Biomass/Biogas	Nameplate capacity of generation resources that produce electricity through the combustion of biomass (an organic nonfossil material of biological origin constituting a renewable energy source).	MW	End of Year	U.S. Energy Information Administration, Online Glossary, <a href="https://www.eia.gov/tools/glossary/">https://www.eia.gov/tools/glossary/</a> .
1.5.2	Geothermal	Nameplate capacity of generation resources that produce electricity through the use of thermal energy released from hot water or steam extracted from geothermal reservoirs in the earth's crust.	MW	End of Year	U.S. Energy Information Administration, Online Glossary, <a href="https://www.eia.gov/tools/glossary/">https://www.eia.gov/tools/glossary/</a> .
1.5.3	Hydroelectric	Nameplate capacity of generation resources that produce electricity through the use of flowing water.	MW	End of Year	U.S. Energy Information Administration, Online Glossary, <a href="https://www.eia.gov/tools/glossary/">https://www.eia.gov/tools/glossary/</a> .
1.5.4	Solar	Nameplate capacity of generation resources that produce electricity through the use of the radiant energy of the sun, which can be converted into other forms of energy, such as heat or electricity.	MW	End of Year	U.S. Energy Information Administration, Online Glossary, <a href="https://www.eia.gov/tools/glossary/">https://www.eia.gov/tools/glossary/</a> .
1.5.5	Wind	Nameplate capacity of generation resources that produce electricity through the use of kinetic energy present in wind motion that can be converted to mechanical energy for driving pumps, mills, and electric power generators.	MW	End of Year	U.S. Energy Information Administration, Online Glossary, <a href="https://www.eia.gov/tools/glossary/">https://www.eia.gov/tools/glossary/</a> .
1.6	Other	Nameplate capacity of generation resources that are not defined above.	MW	End of Year	
2	Net Generation for the data year (MWh)	Net generation is defined as the summation of the amount of gross generation less the electrical energy consumed at the generating station(s) for station service or auxiliaries. Data can be provided in terms of total, owned, and/or purchased, depending on how the company prefers to disseminate data in this template. Provide net generation data that is consistent with other external reporting by your company. The alternative default is to provide owned generation data as reported to EIA on Form 923 Schedule 3 and align purchased power data with the Federal Energy Regulatory Commission (FERC) Form 1 Purchased Power Schedule, Reference Pages numbers 326-327. Note: Electricity required for pumping at pumped-storage plants is regarded as electricity for station service and is deducted from gross generation.	Megawatthour (MWh): One thousand kilowatt-hours or one million watt-hours.	Annual	U.S. Energy Information Administration, Online Glossary, <a href="https://www.eia.gov/tools/glossary/">https://www.eia.gov/tools/glossary/</a> . Form 923 instructions available at: <a href="http://www.eia.gov/survey/form/eia_923/instructions.pdf">www.eia.gov/survey/form/eia_923/instructions.pdf</a> .
2.1	Coal	Net electricity generated by the combustion of coal (a readily combustible black or brownish-black rock whose composition, including inherent moisture, consists of more than 50 percent by weight and more than 70 percent by volume of carbonaceous material. It is formed from plant remains that have been compacted, hardened, chemically altered, and metamorphosed by heat and pressure over geologic time).	MWh	Annual	U.S. Energy Information Administration, Online Glossary, <a href="https://www.eia.gov/tools/glossary/">https://www.eia.gov/tools/glossary/</a> .
2.2	Natural Gas	Net electricity generated by the combustion of natural gas (a gaseous mixture of hydrocarbon compounds, the primary one being methane).	MWh	Annual	U.S. Energy Information Administration, Online Glossary, <a href="https://www.eia.gov/tools/glossary/">https://www.eia.gov/tools/glossary/</a> .
2.3	Nuclear	Net electricity generated by the use of the thermal energy released from the fission of nuclear fuel in a reactor.	MWh	Annual	U.S. Energy Information Administration, Online Glossary, <a href="https://www.eia.gov/tools/glossary/">https://www.eia.gov/tools/glossary/</a> .
2.4	Petroleum	Net electricity generated by the combustion of petroleum (a broadly defined class of liquid hydrocarbon mixtures. Included are crude oil, lease condensate, unfinished oils, refined products obtained from the processing of crude oil, and natural gas plant liquids).	MWh	Annual	U.S. Energy Information Administration, Online Glossary, <a href="https://www.eia.gov/tools/glossary/">https://www.eia.gov/tools/glossary/</a> .
2.5	Total Renewable Energy Resources	Energy resources that are naturally replenishing but flow-limited. They are virtually inexhaustible in duration but limited in the amount of energy that is available per unit of time. Renewable energy resources include biomass, hydro, geothermal, solar, wind, ocean thermal, wave action, and tidal action.	MWh	Annual	U.S. Energy Information Administration, Online Glossary, <a href="https://www.eia.gov/tools/glossary/">https://www.eia.gov/tools/glossary/</a> .
2.5.1	Biomass/Biogas	Net electricity generated by the combustion of biomass (an organic nonfossil material of biological origin constituting a renewable energy source).	MWh	Annual	U.S. Energy Information Administration, Online Glossary, <a href="https://www.eia.gov/tools/glossary/">https://www.eia.gov/tools/glossary/</a> .

Definitions for EEI ESG/Sustainability Metrics

Ref. No.	Metric Name	Definition	Units Reported in	Time Period (if applicable)	Reference to Source (if applicable)
2.5.2	Geothermal	Net electricity generated by the use of thermal energy released from hot water or steam extracted from geothermal reservoirs in the earth's crust.	MWh	Annual	U.S. Energy Information Administration, Online Glossary, <a href="https://www.eia.gov/tools/glossary/">https://www.eia.gov/tools/glossary/</a> .
2.5.3	Hydroelectric	Net electricity generated by the use of flowing water.	MWh	Annual	U.S. Energy Information Administration, Online Glossary, <a href="https://www.eia.gov/tools/glossary/">https://www.eia.gov/tools/glossary/</a> .
2.5.4	Solar	Net electricity generated by the use of the radiant energy of the sun, which can be converted into other forms of energy, such as heat or electricity.	MWh	Annual	U.S. Energy Information Administration, Online Glossary, <a href="https://www.eia.gov/tools/glossary/">https://www.eia.gov/tools/glossary/</a> .
2.5.5	Wind	Net electricity generated by the use of kinetic energy present in wind motion that can be converted to mechanical energy for driving pumps, mills, and electric power generators.	MWh	Annual	U.S. Energy Information Administration, Online Glossary, <a href="https://www.eia.gov/tools/glossary/">https://www.eia.gov/tools/glossary/</a> .
2.6	Other	Net electricity generated by other resources that are not defined above. If applicable, this metric should also include market purchases where the generation resource is unknown.	MWh	Annual	
3	Investing in the Future: Capital Expenditures, Energy Efficiency (EE), and Smart Meters				
3.1	Total Annual Capital Expenditures	Align annual capital expenditures with data reported in recent investor presentations or financial filings. Total capital expenditures should reflect all investments made at the company level (i.e., parent level or operating company) for which other data (e.g., number of customers, emissions, etc.) is reported. A capital expenditure is the use of funds or assumption of a liability in order to obtain physical assets that are to be used for productive purposes for at least one year. This type of expenditure is made in order to expand the productive or competitive posture of a business.	Nominal Dollars	Annual	Accounting Tools, Q&A, <a href="http://www.accountingtools.com/questions-and-answers/what-is-a-capital-expenditure.html">http://www.accountingtools.com/questions-and-answers/what-is-a-capital-expenditure.html</a>
3.2	Incremental Annual Electricity Savings from EE Measures (MWh)	Incremental Annual Electricity Savings for the reporting year as reported to EIA on Form 861. Incremental Annual Savings for the reporting year are those changes in energy use caused in the current reporting year by: (1) new participants in DSM programs that operated in the previous reporting year, and (2) participants in new DSM programs that operated for the first time in the current reporting year. A “New program” is a program for which the reporting year is the first year the program achieved savings, regardless of when program development and expenditures began.	MWh	End of Year	U.S. Energy Information Administration, Form EIA-861 Annual Electric Power Industry Report Instructions. Available at: <a href="http://www.eia.gov/survey/form/eia_861/instructions.pdf">www.eia.gov/survey/form/eia_861/instructions.pdf</a> .
3.3	Incremental Annual Investment in Electric EE Programs (nominal dollars)	Total annual investment in electric energy efficiency programs as reported to EIA on Form 861.	Nominal Dollars	End of Year	U.S. Energy Information Administration, Form EIA-861 Annual Electric Power Industry Report Instructions. Available at: <a href="http://www.eia.gov/survey/form/eia_861/instructions.pdf">www.eia.gov/survey/form/eia_861/instructions.pdf</a> .
4	Retail Electric Customer Count (at end of year)	Electric customer counts should be aligned with the data provided to EIA on Form 861 - Sales to Utility Customers.			U.S. Energy Information Administration, Form EIA-861 Annual Electric Power Industry Report Instructions. Available at: <a href="http://www.eia.gov/survey/form/eia_861/instructions.pdf">www.eia.gov/survey/form/eia_861/instructions.pdf</a> .
4.1	Commercial	An energy-consuming sector that consists of service-providing facilities and equipment of businesses; Federal, State, and local governments; and other private and public organizations, such as religious, social, or fraternal groups. The commercial sector includes institutional living quarters. It also includes sewage treatment facilities. Common uses of energy associated with this sector include space heating, water heating, air conditioning, lighting, refrigeration, cooking, and running a wide variety of other equipment. Note: This sector includes generators that produce electricity and/or useful thermal output primarily to support the activities of the above-mentioned commercial establishments.	Number of end-use retail customers receiving electricity (individual homes and businesses count as one).	End of Year	U.S. Energy Information Administration, Online Glossary, <a href="https://www.eia.gov/tools/glossary/">https://www.eia.gov/tools/glossary/</a> .
4.2	Industrial	An energy-consuming sector that consists of all facilities and equipment used for producing, processing, or assembling goods. The industrial sector encompasses the following types of activity manufacturing (NAICS codes 31-33); agriculture, forestry, fishing and hunting (NAICS code 11); mining, including oil and gas extraction (NAICS code 21); and construction (NAICS code 23). Overall energy use in this sector is largely for process heat and cooling and powering machinery, with lesser amounts used for facility heating, air conditioning, and lighting. Fossil fuels are also used as raw material inputs to manufactured products. Note: This sector includes generators that produce electricity and/or useful thermal output primarily to support the above-mentioned industrial activities. Various EIA programs differ in sectoral coverage.	Number of end-use retail customers receiving electricity (individual homes and businesses count as one).	End of Year	U.S. Energy Information Administration, Online Glossary, <a href="https://www.eia.gov/tools/glossary/">https://www.eia.gov/tools/glossary/</a> .
4.3	Residential	An energy-consuming sector that consists of living quarters for private households. Common uses of energy associated with this sector include space heating, water heating, air conditioning, lighting, refrigeration, cooking, and running a variety of other appliances. The residential sector excludes institutional living quarters. Note: Various EIA programs differ in sectoral coverage.	Number of end-use retail customers receiving electricity (individual homes and businesses count as one).	End of Year	U.S. Energy Information Administration, Online Glossary, <a href="https://www.eia.gov/tools/glossary/">https://www.eia.gov/tools/glossary/</a> .
Emissions					
5	GHG Emissions: Carbon Dioxide (CO2) and Carbon Dioxide Equivalent (CO2e)				
5.1	Owned Generation				
5.1.1	Carbon Dioxide (CO2)				
5.1.1.1	Total Owned Generation CO2 Emissions	Total direct CO2 emissions from company equity-owned fossil fuel combustion generation based on EPA's GHG Reporting Program (40 CFR, part 98, Subpart C – General Stationary Fuel Combustion and Subpart D – Electricity Production), using a continuous emission monitoring system (CEMS) or other relevant protocols.	Metric Tons	Annual	U.S. Environmental Protection Agency, Greenhouse Gas Reporting Program (40 CFR, part 98, Subparts C and D).
5.1.1.2	Total Owned Generation CO2 Emissions Intensity	Total direct CO2 emissions from 5.1.1.1, divided by total MWh of owned net generation reported in the Utility Portfolio section.	Metric Tons/Net MWh	Annual	



Definitions for EEI ESG/Sustainability Metrics

Ref. No.	Metric Name	Definition	Units Reported in	Time Period (if applicable)	Reference to Source (if applicable)
5.1.2	Carbon Dioxide Equivalent (CO2e)				
5.1.2.1	Total Owned Generation CO2e Emissions	Total direct CO2e emissions (CO2, CH4, and N2O) from company equity-owned fossil fuel combustion generation in accordance with EPA's GHG Reporting Program (40 CFR, part 98, Subpart C – General Stationary Fuel Combustion and Subpart D – Electricity Production), using a continuous emission monitoring system (CEMS) or other approved methodology.	Metric Tons	Annual	U.S. Environmental Protection Agency, Greenhouse Gas Reporting Program (40 CFR, part 98, Subparts C and D).
5.1.2.2	Total Owned Generation CO2e Emissions Intensity	Total direct CO2e emissions from 5.1.2.1, divided by total MWh of owned net generation reported in the Utility Portfolio section.	Metric Tons/Net MWh	Annual	
5.2	Purchased Power				
5.2.1	Carbon Dioxide (CO2)				
5.2.1.1	Total Purchased Generation CO2 Emissions	Purchased power CO2 emissions should be calculated using the most relevant and accurate of the following methods: (1) For direct purchases, such as PPAs, use the direct emissions data as reported to EPA. (2) For market purchases where emissions attributes are unknown, use applicable regional or national emissions rate: <ul style="list-style-type: none"><li>- ISO/RTO-level emission factors</li><li>- Climate Registry emission factors</li><li>- E-Grid emission factors</li></ul>	Metric Tons	Annual	
5.2.1.2	Total Purchased Generation CO2 Emissions Intensity	Total purchased power CO2 emissions from 5.2.1.1, divided by total MWh of purchased net generation reported in the Utility Portfolio section.	Metric Tons/Net MWh	Annual	
5.2.2	Carbon Dioxide Equivalent (CO2e)				
5.2.2.1	Total Purchased Generation CO2e Emissions	Purchased power CO2e emissions should be calculated using the most relevant and accurate of the following methods: (1) For direct purchases, such as PPAs, use the direct emissions data as reported to EPA. (2) For market purchases where emissions attributes are unknown, use applicable regional or national emissions rate: <ul style="list-style-type: none"><li>- ISO/RTO-level emission factors</li><li>- Climate Registry emission factors</li><li>- E-Grid emission factors</li></ul>	Metric Tons	Annual	
5.2.2.2	Total Purchased Generation CO2e Emissions Intensity	Total purchased power CO2e emissions from 5.2.2.1, divided by total MWh of purchased net generation reported in the Utility Portfolio section.	Metric Tons/Net MWh	Annual	
5.3	Owned Generation + Purchased Power				
5.3.1	Carbon Dioxide (CO2)				
5.3.1.1	Total Owned + Purchased Generation CO2 Emissions	Sum of total CO2 emissions reported under 5.1.1.1 and 5.2.1.1.	Metric Tons	Annual	
5.3.1.2	Total Owned + Purchased Generation CO2 Emissions Intensity	Total emissions from 5.3.1.1, divided by total MWh of owned and purchased net generation reported in the Utility Portfolio section.	Metric Tons/Net MWh	Annual	
5.3.2	Carbon Dioxide Equivalent (CO2e)				
5.3.2.1	Total Owned + Purchased Generation CO2e Emissions	Sum of total CO2e emissions reported under 5.1.2.1 and 5.2.2.1.	Metric Tons	Annual	
5.3.2.2	Total Owned + Purchased Generation CO2e Emissions Intensity	Total emissions from 5.3.2.1, divided by total MWh of owned and purchased net generation reported in the Utility Portfolio section.	Metric Tons/Net MWh	Annual	
5.4	Non-Generation CO2e Emissions of Sulfur Hexafluoride (SF6)				
5.4.1	Total CO2e emissions of SF6	Total CO2e emissions of SF6 in accordance with EPA's GHG Reporting Program (40 CFR Part 98, Subpart DD).	Pounds (lbs)	Annual	U.S. Environmental Protection Agency, Greenhouse Gas Reporting Program (40 CFR, part 98, Subpart DD).
5.4.2	Leak rate of CO2e emissions of SF6	Leak rate of CO2e emissions of SF6 in accordance with EPA's GHG Reporting Program (40 CFR Part 98, Subpart DD)	Pounds/Net MWh	Annual	U.S. Environmental Protection Agency, Greenhouse Gas Reporting Program (40 CFR, part 98, Subpart W).
6	Nitrogen Oxide (NOx), Sulfur Dioxide (SO2), Mercury (Hg)				
6.1	Generation basis for calculation	Indicate the generation basis for calculating SO2, NOx, and Hg emissions and intensity. Fossil: Fossil Fuel Generation Only Total: Total System Generation Other: Other (please specify in comment section)			
6.2	Nitrogen Oxide (NOx)				
6.2.1	Total NOx Emissions	Total NOx emissions from company equity-owned fossil fuel combustion generation. In accordance with EPA's Acid Rain Reporting Program (40 CFR, part 75) or regulatory equivalent.	Metric Tons	Annual	U.S. Environmental Protection Agency, Acid Rain Reporting Program (40 CFR, part 75).
6.2.2	Total NOx Emissions Intensity	Total from above, divided by the MWh of generation basis as indicated in 6.1.	Metric Tons/Net MWh	Annual	

Definitions for EEI ESG/Sustainability Metrics

Ref. No.	Metric Name	Definition	Units Reported in	Time Period (if applicable)	Reference to Source (if applicable)
6.3	Sulfur Dioxide (SO2)				
6.3.1	Total SO2 Emissions	Total SO2 emissions from company equity-owned fossil fuel combustion generation. In accordance with EPA's Acid Rain Reporting Program (40 CFR, part 75) or regulatory equivalent.	Metric Tons	Annual	U.S. Environmental Protection Agency, Acid Rain Reporting Program (40 CFR, part 75).
6.3.2	Total SO2 Emissions Intensity	Total from above, divided by the MWh of generation basis as indicated in 6.1.	Metric Tons/Net MWh	Annual	
6.4	Mercury (Hg)				
6.4.1	Total Hg Emissions	Total Mercury emissions from company equity-owned fossil fuel combustion generation. Preferred methods of measurement are performance-based, direct measurement as outlined in the EPA Mercury and Air Toxics Standard (MATS). In the absence of performance-based measures, report value aligned with Toxics Release Inventory (TRI) or regulatory equivalent for international operations.	Kilograms	Annual	EPRI, Metrics to Benchmark Electric Power Company Sustainability Performance, 2018 Technical Report.
6.4.2	Total Hg Emissions Intensity	Total from above, divided by the MWh of generation basis as indicated in 6.1.	Kilograms/Net MWh	Annual	
Resources					
7	Human Resources				
7.1	Total Number of Employees	Average number of employees over the year. To calculate the annual average number of employees: (1) Calculate the total number of employees your establishment paid for all periods. Add the number of employees your establishment paid in every pay period during the data year. Count all employees that you paid at any time during the year and include full-time, part-time, temporary, seasonal, salaried, and hourly workers. Note that pay periods could be monthly, weekly, bi-weekly, and so on. (2) Divide the total number of employees (from step 1) by the number of pay periods your establishment had in during the data year. Be sure to count any pay periods when you had no (zero) employees. (3) Round the answer you computed in step 2 to the next highest whole number.	Number of Employees	Annual	U.S. Department of Labor, Bureau of Labor Statistics, Steps to estimate annual average number of employees, <a href="http://www.bls.gov/respondents/iif/annualavghours.htm">www.bls.gov/respondents/iif/annualavghours.htm</a> . EPRI, Metrics to Benchmark Electric Power Company Sustainability Performance, 2018 Technical Report.
7.2	Percentage of Women in Total Workforce	Percentage of women (defined as employees who identify as female) in workforce.	Percent of Employees	Annual	<a href="http://www.archives.gov/eeo/terminology.html">www.archives.gov/eeo/terminology.html</a> . EPRI, Metrics to Benchmark Electric Power Company Sustainability Performance, 2018
7.3	Percentage of Minorities in Total Workforce	Percentage of minorities in workforce. Minority employees are defined as “the smaller part of a group. A group within a country or state that differs in race, religion or national origin from the dominant group. Minority is used to mean four particular groups who share a race, color or national origin.” These groups are: “(1) American Indian or Alaskan Native. A person having origins in any of the original peoples of North America, and who maintain their culture through a tribe or community; (2) Asian or Pacific Islander. A person having origins in any of the original people of the Far East, Southeast Asia, India, or the Pacific Islands. These areas include, for example, China, India, Korea, the Philippine Islands, and Samoa; (3) Black (except Hispanic). A person having origins in any of the black racial groups of Africa; (4) Hispanic. A person of Mexican, Puerto Rican, Cuban, Central or South American, or other Spanish culture or origin, regardless of race.”	Percent of Employees	Annual	U.S. Equal Employment Opportunity Commission, EEO Terminology, <a href="http://www.archives.gov/eeo/terminology.html">www.archives.gov/eeo/terminology.html</a> . EPRI, Metrics to Benchmark Electric Power Company Sustainability Performance, 2018 Technical Report.
7.4	Total Number of Board of Directors/Trustees	Average number of employees on the Board of Directors/Trustees over the year.	Number of Employees	Annual	
7.5	Percentage of Women on Board of Directors/Trustees	Percentage of women (defined as employees who identify as female) on Board of Directors/Trustees.	Percent of Employees	Annual	U.S. Equal Employment Opportunity Commission, EEO Terminology, <a href="http://www.archives.gov/eeo/terminology.html">www.archives.gov/eeo/terminology.html</a> . EPRI, Metrics to Benchmark Electric Power Company Sustainability Performance, 2018 Technical Report.
7.6	Percentage of Minorities on Board of Directors/Trustees	Percentage of minorities on Board of Directors/Trustees. Minority employees are defined as “the smaller part of a group. A group within a country or state that differs in race, religion or national origin from the dominant group. Minority is used to mean four particular groups who share a race, color or national origin.” These groups are: “(1) American Indian or Alaskan Native. A person having origins in any of the original peoples of North America, and who maintain their culture through a tribe or community; (2) Asian or Pacific Islander. A person having origins in any of the original people of the Far East, Southeast Asia, India, or the Pacific Islands. These areas include, for example, China, India, Korea, the Philippine Islands, and Samoa; (3) Black (except Hispanic). A person having origins in any of the black racial groups of Africa; (4) Hispanic. A person of Mexican, Puerto Rican, Cuban, Central or South American, or other Spanish culture or origin, regardless of race.”	Percent of Employees	Annual	U.S. Equal Employment Opportunity Commission, EEO Terminology, <a href="http://www.archives.gov/eeo/terminology.html">www.archives.gov/eeo/terminology.html</a> . EPRI, Metrics to Benchmark Electric Power Company Sustainability Performance, 2018 Technical Report.
7.7	Employee Safety Metrics				
7.7.1	Recordable Incident Rate	Number of injuries or illnesses x 200,000 / Number of employee labor hours worked. Injury or illness is recordable if it results in any of the following: death, days away from work, restricted work or transfer to another job, medical treatment beyond first aid, or loss of consciousness. You must also consider a case to meet the general recording criteria if it involves a significant injury or illness diagnosed by a physician or other licensed health care professional, even if it does not result in death, days away from work, restricted work or job transfer, medical treatment beyond first aid, or loss of consciousness. Record the injuries and illnesses of all employees on your payroll, whether they are labor, executive, hourly, salary, part-time, seasonal, or migrant workers. You also must record the recordable injuries and illnesses that occur to employees who are not on your payroll if you supervise these employees on a day-to-day basis. If your business is organized as a sole proprietorship or partnership, the owner or partners are not considered employees for recordkeeping purposes. For temporary employees, you must record these injuries and illnesses if you supervise these employees on a day-to-day basis. If the contractor's employee is under the day-to-day supervision of the contractor, the contractor is responsible for recording the injury or illness. If you supervise the contractor employee's work on a day-to-day basis, you must record the injury or illness.	Percent	Annual	U.S. Department of Labor, Occupational Health and Safety Administration, OSHA Recordable Incidents. EPRI, Metrics to Benchmark Electric Power Company Sustainability Performance, 2018 Technical Report.

Definitions for EEI ESG/Sustainability Metrics

Ref. No.	Metric Name	Definition	Units Reported in	Time Period (if applicable)	Reference to Source (if applicable)
7.7.2	Lost-time Case Rate	Calculated as: Number of lost-time cases x 200,000 / Number of employee labor hours worked. Only report for employees of the company as defined for the “recordable incident rate for employees” metric. A lost-time incident is one that resulted in an employee's inability to work the next full work day.	Percent	Annual	U.S. Department of Labor, Occupational Health and Safety Administration, OSHA Recordable Incidents. EPRI, Metrics to Benchmark Electric Power Company Sustainability Performance,2018 Technical Report.
7.7.3	Days Away, Restricted, and Transfer (DART) Rate	Calculated as: Total number of DART incidents x 200,000 / Number of employee labor hours worked. A DART incident is one in which there were one or more lost days or one or more restricted days, or one that resulted in an employee transferring to a different job within the company.	Percent	Annual	U.S. Department of Labor, Occupational Health and Safety Administration, OSHA Recordable Incidents. EPRI, Metrics to Benchmark Sustainability Performance for the Electric Power Industry, 2018 Technical Report.
7.7.4	Work-related Fatalities	Total employee fatalities. Record for all employees on your payroll, whether they are labor, executive, hourly, salary, part-time, seasonal, or migrant workers. Include fatalities to those that occur to employees who are not on your payroll if you supervise these employees on a day-to-day basis. For temporary employees, report fatalities if you supervise these employees on a day-to-day basis.	Number of Employees	Annual	U.S. Department of Labor, Occupational Health and Safety Administration, OSHA Recordable Incidents. EPRI, Metrics to Benchmark Electric Power Company Sustainability Performance, 2018 Technical Report.
8	Fresh Water Resources used in Thermal Power Generation Activities				
8.1	Water Withdrawals - Consumptive (Millions of Gallons)	Amount of freshwater consumed for use in thermal generation. “Freshwater” includes water sourced from fresh surface water, groundwater, rain water, and fresh municipal water. Do NOT include recycled, reclaimed, or gray water. Water consumption is defined as water that is not returned to the original water source after being withdrawn, including evaporation to the atmosphere.	Millions of Gallons	Annual	Partially sourced from EPRI, Metrics to Benchmark Electric Power Company Sustainability Performance, 2018 Technical Report.
8.2	Water Withdrawals - Non-Consumptive (Millions of Gallons)	Amount of fresh water withdrawn, but not consumed, for use in thermal generation.“Freshwater” includes water sourced from fresh surface water, groundwater, rain water, and fresh municipal water. Do NOT include recycled, reclaimed, or gray water. Information on organizational water withdrawal may be drawn from water meters, water bills, calculations derived from other available water data or (if neither water meters nor bills or reference data exist) the organization’s own estimates.	Millions of Gallons	Annual	Partially sourced from EPRI, Metrics to Benchmark Electric Power Company Sustainability Performance,2018 Technical Report.
8.3	Water Withdrawals - Consumptive Rate (Millions of Gallons/ Net MWh)	Rate of freshwater consumed for use in thermal generation. “Freshwater” includes water sourced from fresh surface water, groundwater, rain water, and fresh municipal water. Do NOT include recycled, reclaimed, or gray water. Water consumption is defined as water that is not returned to the original water source after being withdrawn, including evaporation to the atmosphere. Divide millions of gallons by equity-owned total net generation from all equity-owned net electric generation as reported under Metric 2, Net Generation for the data year (MWh).	Millions of Gallons/Net MWh	Annual	Partially sourced from EPRI, Metrics to Benchmark Electric Power Company Sustainability Performance, 2018 Technical Report.
8.4	Water Withdrawals - Non-Consumptive Rate (Millions of Gallons/Net MWh)	Rate of fresh water withdrawn, but not consumed, for use in thermal generation.“Freshwater” includes water sourced from fresh surface water, groundwater, rain water, and fresh municipal water. Do NOT include recycled, reclaimed, or gray water. Information on organizational water withdrawal may be drawn from water meters, water bills, calculations derived from other available water data or (if neither water meters nor bills or reference data exist) the organization’s own estimates. Divide millions of gallons by equity-owned total net generation from all equity-owned net electric generation as reported under Metric 2, Net Generation for the data year (MWh).	Millions of Gallons/Net MWh	Annual	Partially sourced from EPRI, Metrics to Benchmark Electric Power Company Sustainability Performance,2018 Technical Report.
9	Waste Products				
9.1	Amount of Hazardous Waste Manifested for Disposal	Metric tons of hazardous waste, as defined by the Resource Conservation and Recovery Act (RCRA), manifested for disposal at a Treatment Storage and Disposal (TSD) facility. Methods of disposal include disposing to landfill, surface impoundment, waste pile, and land treatment units. Hazardous wastes include either listed wastes (F, K, P and U lists) or characteristic wastes (wastes which exhibit at least one of the following characteristics - ignitability, corrosivity, reactivity, toxicity). Include hazardous waste from all company operations including generation, transmissions, distribution, and other operations.	Metric Tons	Annual	Partially sourced from EPRI, Metrics to Benchmark Electric Power Company Sustainability Performance, 2018 Technical Report.
9.2	Percent of Coal Combustion Products Beneficially Used	Percent of coal combustion products (CCPs) - fly ash, bottom ash, boiler slag, flue gas desulfurization materials, scrubber bi-product - diverted from disposal into beneficial uses, including being sold. Include any CCP that is generated during the data year and stored for beneficial use in a future year. Only include CCP generated at company equity-owned facilities. If no weight data are available, estimate the weight using available information on waste density and volume collected, mass balances, or similar information.	Percent	Annual	Partially sourced from EPRI, Metrics to Benchmark Electric Power Company Sustainability Performance, 2018 Technical Report.





# Gas Company ESG/Sustainability Quantitative Information

**Parent Company:** Ameren Corporation (AEE)  
**Operating Company(s):** Consolidated Ameren Results  
**Business Type(s):** Rate-regulated electric and natural gas utilities  
**State(s) of Operation:** Missouri and Illinois (Ameren Illinois owns no generation)  
**Regulatory Environment:** Regulated  
**Report Date:** May 2023

		Baseline						
Ref. No.	Refer to the "Definitions" column for more information on each metric.	2005	2018	2019	2020	2021	2022	Definitions
Natural Gas Distribution								
1	METHANE EMISSIONS AND MITIGATION FROM DISTRIBUTION MAINS							<u>All methane leak sources per 98.232 (i) (1-6) are included for Distribution. Combustion sources are excluded. CO2 is excluded.</u>
1.1	Number of Gas Distribution Customers	935,605	943,773	944,508	947,395	949,421	949,175	
1.2	Distribution Mains in Service							
1.2.1	Plastic (miles)	8,805	10,367	10,721	10,871	11,040	11,226	
1.2.2	Cathodically Protected Steel - Bare & Coated (miles)	10,481	10,050	9,947	9,866	9,782	9,696	
1.2.3	Unprotected Steel - Bare & Coated (miles)	15	2	2	0.37	0	0	These metrics should include all local distribution companies (LDCs) held by the Parent Company that are above the LDC Facility reporting threshold for EPA's 40 C.F.R. 98, Subpart W reporting rule.
1.2.4	Cast Iron / Wrought Iron - without upgrades (miles)	50	0	0	0	0	0	
1.3	Plan/Commitment to Replace / Upgrade Remaining Miles of Distribution Mains (# years to complete)							
1.3.1	Unprotected Steel (Bare & Coated) (# years to complete)	15	1	0	1	0	0	
1.3.2	Cast Iron / Wrought Iron (# years to complete)	3	0	0	0	0	0	
2	Distribution CO2e Fugitive Emissions							These metrics should provide the number of years remaining to take out of service, replace or upgrade cathodically unprotected steel mains, and cast iron/wrought iron mains, consistent with applicable state utility commission authorizations.
2.1	CO2e Fugitive Methane Emissions from Gas Distribution Operations (metric tons)	N/A	111,917	88,500	88,614	90,429	95,257	
2.2	CH4 Fugitive Methane Emissions from Gas Distribution Operations (metric tons)	N/A	4,477	3,540	3,545	3,617	3,810	
2.2.1	CH4 Fugitive Methane Emissions from Gas Distribution Operations (MMSCF/year)	N/A	233	184	185	188	198	
2.3	Annual Natural Gas Throughput from Gas Distribution Operations in thousands of standard cubic feet (Mscf/year)	N/A	200,383,982	201,081,346	189,997,161	188,347,266	198,067,902	
2.3.1	Annual Methane Gas Throughput from Gas Distribution Operations in millions of standard cubic feet (MMscf/year)	N/A	190,365	191,027	180,497	178,930	188,165	Fugitive methane emissions (not CO2 combustion emissions) stated as CO2e, as reported to EPA under 40 CFR 98, Subpart W, sections 98.236(q)(3)(ix)(D), 98.236(r)(1)(v), and 98.236(r)(2)(v)(B) - i.e., this is Subpart W methane emissions as input in row 2.2.1 below and converted to CO2e here. This metric should include fugitive methane emissions above the reporting threshold for all natural gas local distribution companies (LDCs) held by the Parent Company that are above the LDC Facility reporting threshold for EPA's 40 C.F.R. 98, Subpart W reporting rule. Calculated value based on mt CH4 input in the 2.2.1 (below).
2.4	Fugitive Methane Emissions Rate (MMscf of Methane Emissions per MMscf of Methane Throughput)	N/A	0.1%	0.1%	0.1%	0.1%	0.1%	
Natural Gas Transmission and Storage								
Per the subpart w definitions Ameren does not have any interstate transmission pipelines								
Natural Gas Gathering and Boosting								
Ameren has no Gathering and Boosting activities								



## Gas Company ESG/Sustainability Quantitative Information

**Parent Company:** Ameren Corporation (AEE)  
**Operating Company(s):** Union Electric Company (d/b/a Ameren Missouri)  
**Business Type(s):** Rate-regulated electric and natural gas utilities  
**State(s) of Operation:** Missouri, with several generation facilities in Illinois  
**Regulatory Environment:** Regulated  
**Report Date:** May 2023

		Baseline						
Ref. No.	Refer to the "Definitions" column for more information on each metric.	2005	2018	2019	2020	2021	2022	Definitions
Natural Gas Distribution								
1	METHANE EMISSIONS AND MITIGATION FROM DISTRIBUTION MAINS							All methane leak sources per 98.232 (i) (1-6) are included for Distribution. Combustion sources are excluded. CO2 is excluded.
1.1	Number of Gas Distribution Customers	128,460	131,499	132,368	133,586	134,560	135,420	
1.2	Distribution Mains in Service							These metrics should include all local distribution companies (LDCs) held by the Parent Company that are above the LDC Facility reporting threshold for EPA's 40 C.F.R. 98, Subpart W reporting rule.
1.2.1	Plastic (miles)	2,000	2,361	2,577	2,598	2,629	2,668	
1.2.2	Cathodically Protected Steel - Bare & Coated (miles)	896	881	824	814	805	797	
1.2.3	Unprotected Steel - Bare & Coated (miles)	5	0	0	0	0	0	
1.2.4	Cast Iron / Wrought Iron - without upgrades (miles)	35	0	0	0	0	0	These metrics should provide the number of years remaining to take out of service, replace or upgrade cathodically unprotected steel mains, and cast iron/wrought iron mains, consistent with applicable state utility commission authorizations.
1.3	Plan/Commitment to Replace / Upgrade Remaining Miles of Distribution Mains (# years to complete)							
1.3.1	Unprotected Steel (Bare & Coated) (# years to complete)	1	0	0	0	0	0	Optional: # yrs by pipe type.
1.3.2	Cast Iron / Wrought Iron (# years to complete)	2	0	0	0	0	0	Optional: # yrs by pipe type.
2	Distribution CO2e Fugitive Emissions							
2.1	CO2e Fugitive Methane Emissions from Gas Distribution Operations (metric tons)	N/A	13,698	14,650	14,742	14,873	15,044	Fugitive methane emissions (not CO2 combustion emissions) stated as CO2e, as reported to EPA under 40 CFR 98, Subpart W, sections 98.236(q)(3)(ix)(D), 98.236(r)(1)(v), and 98.236(r)(2)(v)(B) - i.e., this is Subpart W methane emissions as input in row 2.2.1 below and converted to CO2e here. This metric should include fugitive methane emissions above the reporting threshold for all natural gas local distribution companies (LDCs) held by the Parent Company that are above the LDC Facility reporting threshold for EPA's 40 C.F.R. 98, Subpart W reporting rule. Calculated value based on mt CH4 input in the 2.2.1 (below).
2.2	CH4 Fugitive Methane Emissions from Gas Distribution Operations (metric tons)	N/A	548	586	590	595	602	INPUT VALUE (total mt CH4) as explained in definition above. Subpart W input is CH4 (mt).
2.2.1	CH4 Fugitive Methane Emissions from Gas Distribution Operations (MMSCF/year)	N/A	29	31	31	31	31	
2.3	Annual Natural Gas Throughput from Gas Distribution Operations in thousands of standard cubic feet (Mscf/year)	N/A	20,940,443	21,168,289	19,667,302	19,991,030	21,454,909	This metric provides gas throughput from distribution (quantity of natural gas delivered to end users) reported under Subpart W, 40 C.F.R. 98.236(aa)(9)(iv), as reported on the Subpart W e-GRRT integrated reporting form in the "Facility Overview" worksheet Excel form, Quantity of natural gas delivered to end users (column 4).
2.3.1	Annual Methane Gas Throughput from Gas Distribution Operations in millions of standard cubic feet (MMscf/year)	N/A	19,893	20,110	18,684	18,991	20,382	
2.4	Fugitive Methane Emissions Rate (MMscf of Methane Emissions per MMscf of Methane Throughput)	N/A	0.1%	0.2%	0.2%	0.2 %	0.2 %	$\frac{E_C}{TP_C} = \frac{\text{tonnes CH}_4}{\text{MMscf gas}} \times \frac{10^6 \text{ g CH}_4}{\text{tonne CH}_4} \times \frac{\text{g mole CH}_4}{16 \text{ g CH}_4} \times \frac{\text{gmol Nat Gas}}{0.95 \text{ gmol CH}_4} \times \frac{\text{scf gas}}{1.198 \text{ gmol gas}} \times \frac{\text{MMscf gas emissions}}{10^6 \text{ scf gas}} = \frac{\text{MMscf gas emissions}}{\text{MMscf gas throughput}} = \%$
Natural Gas Transmission and Storage								
Per the subpart w definitions Ameren does not have any interstate transmission pipelines								
Natural Gas Gathering and Boosting								
Ameren has no Gathering and Boosting activities								



## Gas Company ESG/Sustainability Quantitative Information

Parent Company: **Ameren Corporation (AEE)**  
 Operating Company(s): **Ameren Illinois Company**  
 Business Type(s): *Rate-regulated electric and natural gas utilities*  
 State(s) of Operation: *Illinois*  
 Regulatory Environment: *Regulated*  
 Report Date: *May 2023*

		Baseline							
Ref. No.	Refer to the "Definitions" column for more information on each metric.	2005	2018	2019	2020	2021	2022	Definitions	
Natural Gas Distribution									
1	METHANE EMISSIONS AND MITIGATION FROM DISTRIBUTION MAINS							All methane leak sources per 98.232 (j) (1-6) are included for Distribution. Combustion sources are excluded. CO2 is excluded.	
1.1	Number of Gas Distribution Customers	807,145	812,274	812,140	813,809	814,861	813,755		
1.2	Distribution Mains in Service								These metrics should include all local distribution companies (LDCs) held by the Parent Company that are above the LDC Facility reporting threshold for EPA's 40 C.F.R. 98, Subpart W reporting rule.
1.2.1	Plastic (miles)	6,805	8,006	8,144	8,273	8,411	8,558		
1.2.2	Cathodically Protected Steel - Bare & Coated (miles)	9,585	9,169	9,123	9,052	8,977	8,899		
1.2.3	Unprotected Steel - Bare & Coated (miles)	10	2	2	0.37	0	0		
1.2.4	Cast Iron / Wrought Iron - without upgrades (miles)	15	0	0	0	0	0		
1.3	Plan/Commitment to Replace / Upgrade Remaining Miles of Distribution Mains (# years to complete)							These metrics should provide the number of years remaining to take out of service, replace or upgrade cathodically unprotected steel mains, and cast iron/wrought iron mains, consistent with applicable state utility commission authorizations.	
1.3.1	Unprotected Steel (Bare & Coated) (# years to complete)	14	1	0	1	0	0		Optional: # yrs by pipe type.
1.3.2	Cast Iron / Wrought Iron (# years to complete)	1	0	0	0	0	0		Optional: # yrs by pipe type.
2	Distribution CO2e Fugitive Emissions								
2.1	CO2e Fugitive Methane Emissions from Gas Distribution Operations (metric tons)	N/A	98,219	73,850	73,873	75,557	80,213	Fugitive methane emissions (not CO2 combustion emissions) stated as CO2e, as reported to EPA under 40 CFR 98, Subpart W, sections 98.236(q)(3)(ix)(D), 98.236(r)(1)(v), and 98.236(r)(2)(v)(B) - i.e., this is Subpart W methane emissions as input in row 2.2.1 below and converted to CO2e here. This metric should include fugitive methane emissions above the reporting threshold for all natural gas local distribution companies (LDCs) held by the Parent Company that are above the LDC Facility reporting threshold for EPA's 40 C.F.R. 98, Subpart W reporting rule. Calculated value based on mt CH4 input in the 2.2.1 (below).	
2.2	CH4 Fugitive Methane Emissions from Gas Distribution Operations (metric tons)	N/A	3,929	2,954	2,955	3,022	3,209	INPUT VALUE (total mt CH4) as explained in definition above. Subpart W input is CH4 (mt).	
2.2.1	CH4 Fugitive Methane Emissions from Gas Distribution Operations (MMSCF/year)	N/A	205	154	154	157	167		
2.3	Annual Natural Gas Throughput from Gas Distribution Operations in thousands of standard cubic feet (Mscf/year)	N/A	179,443,539	179,913,057	170,329,859	168,356,236	176,612,993	This metric provides gas throughput from distribution (quantity of natural gas delivered to end users) reported under Subpart W, 40 C.F.R. 98.236(aa)(9)(iv), as reported on the Subpart W e-GRRT integrated reporting form in the "Facility Overview" worksheet Excel form, Quantity of natural gas delivered to end users (column 4).	
2.3.1	Annual Methane Gas Throughput from Gas Distribution Operations in millions of standard cubic feet (MMscf/year)	N/A	170,471	170,917	161,813	159,938	167,782		
2.4	Fugitive Methane Emissions Rate (MMscf of Methane Emissions per MMscf of Methane Throughput)	N/A	0.1%	0.1%	0.1%	0.1%	0.1 %		
$\frac{E_C}{TP_C} = \frac{\text{tonnes CH}_4}{\text{MMscf gas}} \times \frac{10^6 \text{ g CH}_4}{\text{tonne CH}_4} \times \frac{\text{g mole CH}_4}{16 \text{ g CH}_4} \times \frac{\text{g mol Nat Gas}}{0.95 \text{ g mol CH}_4} \times \frac{\text{scf gas}}{1.198 \text{ g mol gas}} \times \frac{\text{MMscf gas emissions}}{10^6 \text{ scf gas}} = \frac{\text{MMscf gas emissions}}{\text{MMscf gas throughput}} = \%$									
Natural Gas Transmission and Storage									
Per the subpart w definitions Ameren does not have any interstate transmission pipelines									
Natural Gas Gathering and Boosting									
Ameren has no Gathering and Boosting activities									

## FORWARD-LOOKING STATEMENTS

Statements in this report not based on historical facts are considered “forward-looking” and, accordingly, involve risks and uncertainties that could cause actual results to differ materially from those discussed. Although such forward-looking statements have been made in good faith and are based on reasonable assumptions, there is no assurance that the expected results will be achieved. These statements include (without limitation) statements as to future expectations, beliefs, plans, projections, strategies, targets, estimates, objectives, events, conditions, and financial performance. In connection with the “safe harbor” provisions of the Private Securities Litigation Reform Act of 1995, we are providing this cautionary statement to identify important factors that could cause actual results to differ materially from those anticipated. The following factors, in addition to those discussed within Risk Factors in our Annual Report on Form 10-K for the year ended December 31, 2022, and elsewhere in this report and in our other filings with the Securities and Exchange Commission, could cause actual results to differ materially from management expectations suggested in such forward-looking statements:

- regulatory, judicial, or legislative actions, and any changes in regulatory policies and ratemaking determinations, that may change regulatory recovery mechanisms, such as those that may result from the impact of a final ruling to be issued by the United States District Court for the Eastern District of Missouri regarding its September 2019 remedy order for the Rush Island Energy Center, the Missouri Public Service Commission (“MoPSC”) staff review of the planned Rush Island Energy Center retirement, Ameren Missouri’s electric regulatory rate review filed in August 2022 with the MoPSC, Ameren Missouri’s proposed customer energy-efficiency plan under the Missouri Energy Efficiency Investment Act (“MEEIA”) filed with the MoPSC in March 2023, Ameren Illinois’ multi-year rate plan (“MYRP”) electric distribution service regulatory rate review filed in January 2023 with the Illinois Commerce Commission (“ICC”), Ameren Illinois’ natural gas regulatory rate review filed in January 2023 with the ICC, Ameren Illinois’ electric distribution service revenue requirement reconciliation adjustment request filed with the ICC in April 2023, and the August 2022 United States Court of Appeals for the District of Columbia Circuit ruling that vacated the Federal Energy Regulatory Commission’s (“FERC”) Midcontinent Independent System Operator, Inc. (“MISO”) return on equity (“ROE”)-determining orders and remanded the proceedings to the FERC;
- our ability to control costs and make substantial investments in our businesses, including our ability to recover costs and investments, and to earn our allowed ROEs, within frameworks established by our regulators, while maintaining affordability of our services for our customers;
- the effect of Ameren Illinois’ use of the performance-based formula ratemaking framework for its electric distribution service under the Illinois Energy Infrastructure Modernization Act (“IEIMA”), which established and allows for a reconciliation of electric distribution service rates through 2023, its participation in electric energy-efficiency programs, and the related impact of the direct relationship between Ameren Illinois’ ROE and the 30-year United States Treasury bond yields;
- the effect and duration of Ameren Illinois’ election to utilize MYRPs for electric distribution service ratemaking effective for rates beginning in 2024, including the effect of the reconciliation cap on the electric distribution revenue requirement;
- the effect on Ameren Missouri of any customer rate caps or limitations on increasing the electric service revenue requirement pursuant to Ameren Missouri’s election to use the plant-in-service accounting regulatory mechanism (“PISA”);
- Ameren Missouri’s ability to construct and/or acquire wind, solar, and other renewable energy generation facilities and battery storage, as well as natural gas-fired combined cycle energy centers, retire fossil fuel-fired energy centers, and implement new or existing customer energy-efficiency programs, including any such construction, acquisition, retirement, or implementation in connection with its Smart Energy Plan, integrated resource plan, or emissions reduction goals, and to recover its cost of investment, a related return, and, in the case of customer energy-efficiency programs, any lost margins in a timely manner, each of which is affected by the ability to obtain all necessary regulatory and project approvals, including certificates of convenience and necessity (“CCNs”) from the MoPSC or any other required approvals for the addition of renewable resources;
- Ameren Missouri’s ability to use or transfer federal production and investment tax credits related to renewable energy projects; the cost of wind, solar, and other renewable generation and storage technologies; and our ability to obtain timely interconnection agreements with the MISO or other regional transmission organizations at an acceptable cost for each facility;



- the success of competitive bids related to requests for proposals associated with the MISO's long-range transmission planning;
- the inability of our counterparties to meet their obligations with respect to contracts, credit agreements, and financial instruments, including as they relate to the construction and acquisition of electric and natural gas utility infrastructure and the ability of counterparties to complete projects, which is dependent upon the availability of necessary materials and equipment, including those obligations that are affected by supply chain disruptions;
- advancements in energy technologies, including carbon capture, utilization, and sequestration, hydrogen fuel for electric production and energy storage, next generation nuclear, and large-scale long-cycle battery energy storage, and the impact of federal and state energy and economic policies with respect to those technologies;
- the effects of changes in federal, state, or local laws and other governmental actions, including monetary, fiscal, foreign trade, and energy policies;
- the effects of changes in federal, state, or local tax laws or rates, including the effects of the IRA and the 15% minimum tax on adjusted financial statement income, as well as additional regulations, interpretations, amendments, or technical corrections to or in connection with the Inflation Reduction Act of 2022 ("IRA"), and challenges, if any, to the tax positions taken by the Ameren Companies, as well as resulting effects on customer rates and the recoverability of the minimum tax imposed under the IRA;
- the effects on energy prices and demand for our services resulting from technological advances, including advances in customer energy efficiency, electric vehicles, electrification of various industries, energy storage, and private generation sources, which generate electricity at the site of consumption and are becoming more cost-competitive;
- the cost and availability of fuel, such as low-sulfur coal, natural gas, and enriched uranium used to produce electricity; the cost and availability of natural gas for distribution and purchased power, including capacity, zero emission credits, renewable energy credits, and emission allowances; and the level and volatility of future market prices for such commodities and credits;
- disruptions in the delivery of fuel, failure of our fuel suppliers to provide adequate quantities or quality of fuel, or lack of adequate inventories of fuel, including nuclear fuel assemblies from the one NRC-licensed supplier of Ameren Missouri's Callaway Energy Center assemblies;
- the cost and availability of transmission capacity for the energy generated by Ameren Missouri's energy centers or required to satisfy our energy sales;
- the effectiveness of our risk management strategies and our use of financial and derivative instruments;
- the ability to obtain sufficient insurance, or, in the absence of insurance, the ability to timely recover uninsured losses from our customers;
- the impact of cyberattacks and data security risks on us or our suppliers, which could, among other things, result in the loss of operational control of energy centers and electric and natural gas transmission and distribution systems and/or the loss of data, such as customer, employee, financial, and operating system information;
- acts of sabotage, which have increased in frequency and severity within the utility industry, war, terrorism, or other intentionally disruptive acts;
- business, economic, and capital market conditions, including the impact of such conditions on interest rates, inflation, and investments;
- the impact of inflation or a recession on our customers and the related impact on our results of operations, financial position, and liquidity;
- disruptions of the capital and credit markets, deterioration in credit metrics of the Ameren Companies, or other events that may have an adverse effect on the cost or availability of capital, including short-term credit and liquidity, and our ability to access the capital and credit markets on reasonable terms when needed;
- the actions of credit rating agencies and the effects of such actions;
- the impact of weather conditions and other natural phenomena on us and our customers, including the impact of system outages and the level of wind and solar resources;
- the construction, installation, performance, and cost recovery of generation, transmission, and distribution assets;
- the ability to maintain system reliability during the transition to clean energy generation by Ameren Missouri and the electric utility industry, including within the MISO, as well as Ameren Missouri's ability to meet generation capacity obligations;
- the effects of failures of electric generation, electric and natural gas transmission or distribution, or natural gas storage facilities systems and equipment, which could result in unanticipated liabilities or unplanned outages;

- the operation of Ameren Missouri's Callaway Energy Center, including planned and unplanned outages, as well as the ability to recover costs associated with such outages and the impact of such outages on off-system sales and purchased power, among other things;
- Ameren Missouri's ability to recover the remaining investment and decommissioning costs associated with the retirement of an energy center, as well as the ability to earn a return on that remaining investment and those decommissioning costs;
- the impact of current environmental laws and new, more stringent, or changing requirements, including those related to NSR, CO<sub>2</sub>, NO<sub>x</sub>, and other emissions and discharges, Illinois emission standards, cooling water intake structures, CCR, energy efficiency, and wildlife protection, that could limit or terminate the operation of certain of Ameren Missouri's energy centers, increase our operating costs or investment requirements, result in an impairment of our assets, cause us to sell our assets, reduce our customers' demand for electricity or natural gas, or otherwise have a negative financial effect;
- the impact of complying with renewable energy standards in Missouri and Illinois and with the zero emission standard in Illinois;
- the effectiveness of Ameren Missouri's customer energy-efficiency programs and the related revenues and performance incentives earned under its MEEIA programs;
- Ameren Illinois' ability to achieve the performance standards applicable to its electric distribution business and electric customer energy-efficiency goals and the resulting impact on its allowed ROE;
- labor disputes, work force reductions, changes in future wage and employee benefits costs, including those resulting from changes in discount rates, mortality tables, returns on benefit plan assets, and other assumptions;
- the impact of negative opinions of us or our utility services that our customers, investors, legislators, regulators, creditors, or other stakeholders may have or develop, which could result from a variety of factors, including failures in system reliability, failure to implement our investment plans or to protect sensitive customer information, increases in rates, negative media coverage, or concerns about ESG practices;
- the impact of adopting new accounting guidance;
- the effects of strategic initiatives, including mergers, acquisitions, and divestitures;
- legal and administrative proceedings;
- pandemics or other health events, including the COVID-19 pandemic, and their impacts on our results of operations, financial position, and liquidity; and
- the impacts of the Russian invasion of Ukraine, related sanctions imposed by the U.S. and other governments, and any broadening of the conflict, including potential impacts on the cost and availability of fuel, natural gas, enriched uranium, and other commodities, materials, and services, the inability of our counterparties to perform their obligations, disruptions in the capital and credit markets, and other impacts on business, economic, and geopolitical conditions, including inflation.

New factors emerge from time to time, and it is not possible for us to predict all of such factors, nor can we assess the impact of each such factor on the business or the extent to which any factor, or combination of factors, may cause actual results to differ materially from those contained or implied in any forward-looking statement. Given these uncertainties, undue reliance should not be placed on these forward-looking statements. Except to the extent required by the federal securities laws, we undertake no obligation to update or revise publicly any forward-looking statements to reflect new information or future events.