



# Electric Company ESG/Sustainability Quantitative Information

**Parent Company:** UNS Energy Corporation (a Fortis, Inc. Company)  
**Operating Company(s):** Tucson Electric Power Company and UniSource Energy Services (UNS Electric Inc. and UNS Gas Inc.)  
**Business Type(s):** Vertically Integrated  
**State(s) of Operation:** Arizona  
**State(s) with RPS Programs:** Arizona  
**Regulatory Environment:** Regulated  
**Report Date:** November 2024

Ref. No.		Baseline	Last Year	Current Year	Future Year	Comments, Links, Additional Information, and Notes
		2005	2022	2023	2035	
<b>Portfolio</b>						
<b>1</b>	<b>Owned Nameplate Generation Capacity at end of year (MW)</b>	<b>2,064</b>	<b>3,328</b>	<b>3,408</b>	<b>5,636</b>	Owned generation capacity provided as nominal capacity, rather than nameplate capacity, for consistency with financial reporting, Fortis, Inc. reporting and the Tucson Electric Power and UNS Electric, Inc. Integrated Resource Plans.  Increased capacity due to capacity upgrades completed in 2023.  Future year solar capacity is a combination of owned and purchased capacity. Future year wind capacity is a combination of owned and purchased capacity.  Owned net generation was determined from operational reports as EIA Form 923 does not indicate net generation by ownership; includes generation for retail and wholesale customers.  Purchased net generation in accordance with SEC Reporting; includes generation for retail and wholesale customers.  Other purchases include market purchases from the grid.
1.1	Coal	1,528	903	903		
1.2	Natural Gas	527	2,107	2,187	2,683	
1.3	Nuclear					
1.4	Petroleum					
1.5	Total Renewable Energy Resources	9	318	318	2,953	
1.5.1	Biomass/Biogas	4				
1.5.2	Geothermal					
1.5.3	Hydroelectric					
1.5.4	Solar	5	68	68	1,918	
1.5.5	Wind		250	250	1,035	
1.6	Other					
<b>2.i</b>	<b>Owned Net Generation for the data year (MWh)</b>	<b>11,216,000</b>	<b>12,686,000</b>	<b>12,451,000</b>	<b>7,211,000</b>	
2.1.i	Coal	10,819,000	4,665,000	3,727,000		
2.2.i	Natural Gas	369,000	7,182,000	8,052,000	6,106,000	
2.3.i	Nuclear					
2.4.i	Petroleum					
2.5.i	Total Renewable Energy Resources	28,000	839,000	672,000	1,105,000	
2.5.1.i	Biomass/Biogas	28,000				
2.5.2.i	Geothermal					
2.5.3.i	Hydroelectric					
2.5.4.i	Solar	Not Available	112,000	120,000	73,000	
2.5.5.i	Wind		727,000	552,000	1,032,000	
2.6.i	Other					
<b>2.ii</b>	<b>Purchased Net Generation for the data year (MWh)</b>	<b>3,314,000</b>	<b>4,375,000</b>	<b>4,583,000</b>	<b>9,296,000</b>	
2.1.ii	Coal					
2.2.ii	Natural Gas		807,000	717,000		
2.3.ii	Nuclear					
2.4.ii	Petroleum					
2.5.ii	Total Renewable Energy Resources		1,574,000	1,534,000	7,100,000	
2.5.1.ii	Biomass/Biogas					
2.5.2.ii	Geothermal					
2.5.3.ii	Hydroelectric					
2.5.4.ii	Solar		1,103,000	1,039,000	4,741,000	
2.5.5.ii	Wind		471,000	495,000	2,359,000	
2.6.ii	Other	3,314,000	1,994,000	2,332,000	2,196,000	
<b>3</b>	<b>Capital Expenditures and Energy Efficiency (EE)</b>					
3.1	Total Annual Capital Expenditures (nominal dollars)	\$203,428,000	\$543,413,000	\$ 676,789,000		
3.2	Incremental Annual Electricity Savings from EE Measures (MWh)	122,353	190,387	194,842		
3.3	Incremental Annual Investment in Electric EE Programs (nominal dollars)	\$1,965,000	\$15,136,000	\$ 33,125,000		
<b>4</b>	<b>Retail Electric Customer Count (at end of year)</b>	<b>470,010</b>	<b>544,600</b>	<b>550,260</b>		
4.1	Commercial	45,210	52,860	53,110		
4.2	Industrial	680	580	580		
4.3	Residential	424,120	491,160	496,570		



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**Business Type(s):** *Vertically Integrated*  
**State(s) of Operation:** *Arizona*  
**State(s) with RPS Programs:** *Arizona*  
**Regulatory Environment:** *Regulated*  
**Report Date:** *November 2024*

Ref. No.		Baseline	Last Year	Current Year	Future Year	Comments, Links, Additional Information, and Notes
		2005	2022	2023	2035	
<b>Emissions</b>						
<b>5</b>	<b>GHG Emissions: Carbon Dioxide (CO2) and Carbon Dioxide Equivalent (CO2e)</b>					
<b>5.1</b>	<b>Owned Generation</b>					
5.1.1	Carbon Dioxide (CO2)					Includes the emissions from sources <25 MW.
5.1.1.1	Total Owned Generation CO2 Emissions (MT)	11,028,000	7,630,000	7,110,000	2,499,000	
5.1.1.2	Total Owned Generation CO2 Emissions Intensity (MT/Net MWh)	0.983	0.601	0.571	0.347	
5.1.2	Carbon Dioxide Equivalent (CO2e)					
5.1.2.1	Total Owned Generation CO2e Emissions (MT)	11,116,000	7,670,000	7,144,000		
5.1.2.2	Total Owned Generation CO2e Emissions Intensity (MT/Net MWh)	0.991	0.605	0.574		
<b>5.2</b>	<b>Purchased Power</b>					
5.2.1	Carbon Dioxide (CO2)					
5.2.1.1	Total Purchased Generation CO2 Emissions (MT)	1,553,000	995,000	965,000	200,000	
5.2.1.2	Total Purchased Generation CO2 Emissions Intensity (MT/Net MWh)	0.469	0.227	0.211	0.022	
5.2.2	Carbon Dioxide Equivalent (CO2e)					
5.2.2.1	Total Purchased Generation CO2e Emissions (MT)	1,560,000	999,000	969,000		
5.2.2.2	Total Purchased Generation CO2e Emissions Intensity (MT/Net MWh)	0.471	0.228	0.211		
<b>5.3</b>	<b>Owned Generation + Purchased Power</b>					
5.3.1	Carbon Dioxide (CO2)					
5.3.1.1	Total Owned + Purchased Generation CO2 Emissions (MT)	12,581,000	8,625,000	8,075,000	2,700,000	
5.3.1.2	Total Owned + Purchased Generation CO2 Emissions Intensity (MT/Net MWh)	0.866	0.506	0.474	0.164	
5.3.2	Carbon Dioxide Equivalent (CO2e)					
5.3.2.1	Total Owned + Purchased Generation CO2e Emissions (MT)	12,677,000	8,669,000	8,112,000		
5.3.2.2	Total Owned + Purchased Generation CO2e Emissions Intensity (MT/Net MWh)	0.872	0.508	0.476		
<b>5.4</b>	<b>Non-Generation CO2e Emissions of Sulfur Hexafluoride (SF6)</b>					
5.4.1	Total CO2e emissions of SF6 (MT)	Not Available	11,000	3,000		
<b>6</b>	<b>Nitrogen Oxide (NOx), Sulfur Dioxide (SO2), Mercury (Hg)</b>					
6.1	Generation basis for calculation	Other				
<b>6.2</b>	<b>Nitrogen Oxide (NOx)</b>					
6.2.1	Total NOx Emissions (MT)	16,000	4,000	4,000	600	
6.2.2	Total NOx Emissions Intensity (MT/Net MWh)	0.001427	0.00032	0.00032	0.00008	
<b>6.3</b>	<b>Sulfur Dioxide (SO2)</b>					
6.3.1	Total SO2 Emissions (MT)	16,000	4,000	4,000		
6.3.2	Total SO2 Emissions Intensity (MT/Net MWh)	0.001427	0.00032	0.00032		
<b>6.4</b>	<b>Mercury (Hg)</b>					
6.4.1	Total Hg Emissions (kg)	Not Available	6	9		
6.4.2	Total Hg Emissions Intensity (kg/Net MWh)	Not Available	0.000005	0.000007		



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Ref. No.	Baseline 2005	Last Year 2022	Current Year 2023	Future Year 2035	Comments, Links, Additional Information, and Notes
<b>Resources</b>					
<b>7</b>	<b>Human Resources</b>				
7.1	1,947	2,014	2,061		
7.4	11	12	11		
7.5	18%	50%	55%		
7.6	27%	17%	9%		
7.7	<b>Employee Safety Metrics</b>				
7.7.1	Not Available	1.30	1.73		
7.7.2	Not Available	0.52	0.36		
7.7.3	Not Available	1.15	1.12		
7.7.4	Not Available	0	0		
<b>8</b>	<b>Fresh Water Resources used in Thermal Power Generation Activities</b>				
8.1	Not Available	4,800	4,900		
8.2	Not Available	27	3		
8.3	Not Available	0.00038	0.00039		
8.4	Not Available	0.00000	0.00000		
<b>9</b>	<b>Waste Products</b>				
9.1	Not Available	2.25	19		
9.2	Not Available	1%	2%		

## Forward Looking Information

This report relating to UNS Energy Corporation and its subsidiaries Tucson Electric Power Company (“TEP”), UniSource Energy Services and UNS Electric, Inc. (collectively “we”, “us” or “our”), contains forward-looking statements as defined by the Private Securities Litigation Reform Act of 1995. We are including the following cautionary statements to make applicable and take advantage of the safe harbor provisions of the Private Securities Litigation Reform Act of 1995 for any forward-looking statements made by us in this report. Forward-looking statements include statements concerning plans, objectives, goals, strategies, future events, future economic conditions, future operational or financial performance and underlying assumptions, and other statements that are not statements of historical facts. Forward-looking statements may be identified by the use of words such as anticipates, believes, estimates, expects, intends, aspires, may, plans, predicts, potential, projects, would, and similar expressions. We disclaim any obligation to update any forward-looking statements to reflect new information, future events or circumstances, except as may otherwise be required by the federal securities laws.

Forward-looking statements involve risks and uncertainties which could cause actual results or outcomes to differ materially from those expressed herein. We express our estimates, expectations, beliefs, and projections in good faith and believe them to have a reasonable basis. However, we make no assurances that the estimates, expectations, beliefs, or projections set forth in this report will be achieved or accomplished. We have identified the following important factors that could cause actual results to differ materially from those discussed in our forward-looking statements. These may be in addition to other factors and matters discussed under Risk Factors in TEP’s Annual Report on Form 10-K for the year ended December 31, 2023, and in TEP’s other filings with the Securities and Exchange Commission and elsewhere in this report. These factors include: voter initiatives and state and federal regulatory and legislative decisions and actions, including changes in tax policies, inclusive of the Inflation Reduction Act of 2022 and evolving interpretive guidance related thereto, and energy policies and the adoption of new regulations regarding electric service disconnections and any change in the structure of utility service in Arizona resulting from the Arizona Corporation Commission’s or state legislature’s examination of the state’s energy policies; changes in, and compliance with, environmental laws and regulatory decisions and policies that could increase operating and capital costs, reduce generation facility output, or accelerate generation facility retirements; unfavorable rulings, penalties, or findings by the Federal Energy Regulatory Commission; regional economic and market conditions that could affect customer growth and electricity usage; potential changes in the benefits of participation in the Energy Imbalance Market; changes in electricity consumption by retail customers; risks related to climate change, including shifts in weather seasonality and extreme weather events affecting electricity usage of our customers, operational performance, and operating and capital costs to ensure system reliability; our forecasts of peak demand and whether existing generation capacity and purchase power agreements are sufficient to meet the expected demand plus reserve margin requirements; the cost of debt and equity capital and access to capital markets and bank markets, which may affect our ability to raise additional capital and use the proceeds from any capital raised as originally intended; the performance of the stock market and a changing interest rate environment, which affect the value of our pension and other postretirement benefit plan assets and our related contribution requirements and expenses; our ability to manage timelines and budgets related to capital projects, including engineering, procurement and construction agreements to develop standalone battery energy storage facilities, and/or to obtain the anticipated performance or other benefits of such capital projects; the potential inability to make additions to our existing high voltage transmission system; unexpected increases in operations and maintenance expense, including inflationary effects, heightened geopolitical instability, and/or global supply chain challenges; resolution of pending litigation matters; changes in accounting standards; changes in our critical accounting estimates; the ongoing impact of mandated energy efficiency and distributed generation initiatives; our ability to effectively implement plans to meet our goals related to reducing carbon emissions by 2035 and 2050, and the potential impact on our financial condition; changes to long-term contracts; the cost of fuel and power supplies; fluctuations or increases in commodity prices; the ability to obtain coal or natural gas from our suppliers; the timing and cost of generation facility decommissioning and mine reclamation activities; cyber-attacks, data breaches, or other cyberspace attacks to our information security and our operations and technology infrastructure, including attacks that may arise from heightened geopolitical instability; physical attacks to our electric generation, transmission and distribution assets; the performance of TEP’s and UNS Electric’s generation facilities, including renewable generation resources; the extent of the impact of a global health crisis on our business and operations, and the economic and societal disruptions resulting therefrom and from the government actions taken in response thereto; and the ongoing implementation of TEP’s and UNS Electric’s respective 2023 IRPs.

Goal Applicability	Baseline Year	Target Year	Greenhouse Gas Reduction Goal Description (Short)	Source (URL)
Tucson Electric Power (Operating Company)		2050	TEP will work toward an aspirational goal of net zero direct greenhouse gas emissions by 2050.	<a href="https://www.tep.com/resource-planning/">https://www.tep.com/resource-planning/</a>



# Gas Company ESG/Sustainability Quantitative Information

**Parent Company:** UNS Energy Corporation (a Fortis, Inc. Company)  
**Operating Company(s):** UNS Gas, Inc.  
**Business Type(s):** Local Distribution Company  
**State(s) of Operation:** Arizona  
**Regulatory Environment:** Regulated  
**Report Date:** November 2024

Ref. No.		Last Year 2022	Current Year 2023
<b>Natural Gas Distribution</b>			
<b>1</b>	<b>METHANE EMISSIONS AND MITIGATION FROM DISTRIBUTION MAINS</b>		
1.1	Number of Gas Distribution Customers	167,000	168,000
1.2	Distribution Mains in Service	3,139	3,147
1.2.1	Plastic (miles)	1,748	1,757
1.2.2	Cathodically Protected Steel - Bare & Coated (miles)	1,391	1,390
1.2.3	Unprotected Steel - Bare & Coated (miles)	0	0
1.2.4	Cast Iron / Wrought Iron - without upgrades (miles)	0	0
1.3	Plan/Commitment to Replace / Upgrade Remaining Miles of Distribution Mains (# years to complete)	NA	NA
1.3.1	Unprotected Steel (Bare & Coated) (# years to complete )	NA	NA
1.3.2	Cast Iron / Wrought Iron (# years to complete )	NA	NA
<b>2</b>	<b>Distribution CO2e Fugitive Emissions</b>		
2.1	CO2e Fugitive Methane Emissions from Gas Distribution Operations (metric tons)	15,098	15,299
2.2	CH4 Fugitive Methane Emissions from Gas Distribution Operations (metric tons)	603.91	611.96
2.2.1	CH4 Fugitive Methane Emissions from Gas Distribution Operations (MMSCF/year)	31.45	31.87
2.3	Annual Natural Gas Throughput from Gas Distribution Operations in thousands of standard cubic feet (Mscf/year)	39,001,530	45,501,588
2.3.1	Annual Methane Gas Throughput from Gas Distribution Operations in millions of standard cubic feet (MMscf/year)	37,051	43,227
2.4	Fugitive Methane Emissions Rate (Percent MMscf of Methane Emissions per MMscf of Methane Throughput )	0.08%	0.07%
<b>Human Resources</b>			
1.1	Total Number of Employees	<div style="border: 1px solid black; padding: 10px; width: 100%; height: 100%;">           Refer to EEI Quantitative Information for Human Resources Information         </div>	
1.2	Percentage of Women in Total Workforce		
1.3	Percentage of Minorities in Total Workforce		
2.1	Total Number on Board of Directors/Trustees		
2.2	Percentage of Women on Board of Directors/Trustees		
2.3	Percentage of Minorities on Board of Directors/Trustees		
<b>3</b>	<b>Employee Safety Metrics</b>		
3.1	Recordable Incident Rate		
3.2	Lost-time Case Rate		
3.3	Days Away, Restricted, and Transfer (DART) Rate		
3.4	Work-related Fatalities		