



Electric Company ESG/Sustainability Quantitative Information

Parent Company: UNS Energy Corporation (a Fortis, Inc. Company)
Operating Company(s): Tucson Electric Power Company
Business Type(s): Vertically Integrated
State(s) of Operation: Arizona
State(s) with RPS Programs: Arizona
Regulatory Environment: Regulated
Report Date: June 2023

Ref. No.		Baseline	Last Year	Current Year	Future Year	Comments, Links, Additional Information, and Notes		
		2005	2021	2022	2035			
Portfolio								
1 Owned Nameplate Generation Capacity at end of year (MW)								
1.1 Coal	2,022	3,184	3,027	3,848				
1.2 Natural Gas	1,528	1,073	903					
1.3 Nuclear	485	1,817	1,817	1,587				
1.4 Petroleum								
1.5 Total Renewable Energy Resources	9	294	307	2,261				
1.5.1 Biomass/Biogas	4							
1.5.2 Geothermal								
1.5.3 Hydroelectric								
1.5.4 Solar	5	44	57	1,514				
1.5.5 Wind		250	250	747				
1.6 Other								
1b Total Owned & Purchased Renewable Generation and Battery Storage Capacity (MW)		779	792					
2.i Owned Net Generation for the data year (MWh)								
2.1.i Coal	11,215,000	13,277,000	11,944,000	11,140,000				
2.2.i Natural Gas	10,819,000	5,341,000	4,665,000					
2.3.i Nuclear	368,000	7,285,000	6,459,000	5,103,000				
2.4.i Petroleum								
2.5.i Total Renewable Energy Resources	28,000	651,000	820,000	6,037,000				
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	78,000	3,408,000				
2.5.5.i Wind			573,000	2,629,000				
2.6.i Other								
2.ii Purchased Net Generation for the data year (MWh)	1,639,000	2,661,000	3,452,000	1,540,000				
2.1.ii Coal		679,000	807,000					
2.2.ii Natural Gas								
2.3.ii Nuclear								
2.4.ii Petroleum								
2.5.ii Total Renewable Energy Resources		999,000	1,300,000	649,000				
2.5.1.ii Biomass/Biogas								
2.5.2.ii Geothermal								
2.5.3.ii Hydroelectric								
2.5.4.ii Solar		800,000	852,000	367,000				
2.5.5.ii Wind		199,000	448,000	282,000				
2.6.ii Other	1,639,000	983,000	1,345,000	891,000				
3 Capital Expenditures and Energy Efficiency (EE)								
3.1 Total Annual Capital Expenditures (nominal dollars)	\$149,906,000	\$499,000,000	\$458,000,000					
3.2 Incremental Annual Electricity Savings from EE Measures (MWh)	101,395	135,263	155,517					
3.3 Incremental Annual Investment in Electric EE Programs (nominal dollars)	\$1,771,000	\$11,122,000	\$12,411,000					
4 Retail Electric Customer Count (at end of year)								
4.1 Commercial	384,900	438,400	442,800					
4.2 Industrial	33,600	41,300	41,400					
4.3 Residential	700	500	600					
	350,600	396,600	400,800					



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State(s) with RPS Programs: *Arizona*
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Report Date: *June 2023*

Ref. No.		Baseline 2005	Last Year 2021	Current Year 2022	Future Year 2035	Comments, Links, Additional Information, and Notes		
Emissions								
5 GHG Emissions: Carbon Dioxide (CO₂) and Carbon Dioxide Equivalent (CO₂e)								
5.1 Owned Generation								
5.1.1 Carbon Dioxide (CO ₂)								
5.1.1.1 Total Owned Generation CO ₂ Emissions (MT)	11,026,000	8,342,000	7,341,000	2,152,000		Includes the emissions from sources <25 MW.		
5.1.1.2 Total Owned Generation CO ₂ Emissions Intensity (MT/Net MWh)	0.983	0.628	0.615	0.193				
5.1.2 Carbon Dioxide Equivalent (CO ₂ e)								
5.1.2.1 Total Owned Generation CO ₂ e Emissions (MT)	11,114,000	8,387,000	7,381,000					
5.1.2.2 Total Owned Generation CO ₂ e Emissions Intensity (MT/Net MWh)	0.991	0.632	0.618					
5.2 Purchased Power								
5.2.1 Carbon Dioxide (CO ₂)								
5.2.1.1 Total Purchased Generation CO ₂ Emissions (MT)	768,000	585,000	620,000	98,000				
5.2.1.2 Total Purchased Generation CO ₂ Emissions Intensity (MT/Net MWh)	0.469	0.220	0.180	0.064				
5.2.2 Carbon Dioxide Equivalent (CO ₂ e)								
5.2.2.1 Total Purchased Generation CO ₂ e Emissions (MT)	772,000	587,000	623,000					
5.2.2.2 Total Purchased Generation CO ₂ e Emissions Intensity (MT/Net MWh)	0.471	0.221	0.180					
5.3 Owned Generation + Purchased Power								
5.3.1 Carbon Dioxide (CO ₂)								
5.3.1.1 Total Owned + Purchased Generation CO ₂ Emissions (MT)	11,794,000	8,927,000	7,961,000	2,250,000				
5.3.1.2 Total Owned + Purchased Generation CO ₂ Emissions Intensity (MT/Net MWh)	0.918	0.560	0.517	0.177				
5.3.2 Carbon Dioxide Equivalent (CO ₂ e)								
5.3.2.1 Total Owned + Purchased Generation CO ₂ e Emissions (MT)	11,886,000	8,974,000	8,004,000					
5.3.2.2 Total Owned + Purchased Generation CO ₂ e Emissions Intensity (MT/Net MWh)	0.925	0.563	0.520					
5.4 Non-Generation CO₂e Emissions of Sulfur Hexafluoride (SF₆)								
5.4.1 Total CO ₂ e emissions of SF ₆ (MT)	Not Available	1,000	11,000					
6 Nitrogen Oxide (NO_x), Sulfur Dioxide (SO₂), Mercury (Hg)								
6.1 Generation basis for calculation		Other						
6.2 Nitrogen Oxide (NO_x)								
6.2.1 Total NO _x Emissions (MT)	16,000	5,300	4,100	300				
6.2.2 Total NO _x Emissions Intensity (MT/Net MWh)	0.001427	0.000399	0.000343	0.00003				
6.3 Sulfur Dioxide (SO₂)								
6.3.1 Total SO ₂ Emissions (MT)	16,000	3,800	3,700	14				
6.3.2 Total SO ₂ Emissions Intensity (MT/Net MWh)	0.001427	0.000286	0.000310	0.000001				
6.4 Mercury (Hg)								
6.4.1 Total Hg Emissions (kg)	Not Available	7.5	6.3					
6.4.2 Total Hg Emissions Intensity (kg/Net MWh)	Not Available	0.000001	0.000001					



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Resources								
7 Human Resources								
7.1 Total Number of Employees		1,287	1,719	1,675				
7.4 Total Number on Board of Directors/Trustees						Refer to UNS Energy EEI Quantitative Information for Board Information		
7.5 Percentage of Women on Board of Directors/Trustees								
7.6 Percentage of Minorities on Board of Directors/Trustees								
7.7 Employee Safety Metrics								
7.7.1 Recordable Incident Rate		<i>Not Available</i>	1.81	1.06				
7.7.2 Lost-time Case Rate		<i>Not Available</i>	0.48	0.44				
7.7.3 Days Away, Restricted, and Transfer (DART) Rate		<i>Not Available</i>	0.79	0.99				
7.7.4 Work-related Fatalities		<i>Not Available</i>	0	0				
8 Fresh Water Resources used in Thermal Power Generation Activities								
8.1 Water Withdrawals - Consumptive (Millions of Gallons)		<i>Not Available</i>	5,200	4,700				
8.2 Water Withdrawals - Non-Consumptive (Millions of Gallons)		<i>Not Available</i>	5,200	4,600				
8.3 Water Withdrawals - Consumptive Rate (Millions of Gallons/Net MWh)		<i>Not Available</i>	0.00039	0.00039				
8.4 Water Withdrawals - Non-Consumptive Rate (Millions of Gallons/Net MWh)		<i>Not Available</i>	0.00039	0.00039				
9 Waste Products								
9.1 Amount of Hazardous Waste Manifested for Disposal		<i>Not Available</i>	2.00	2.28				
9.2 Percent of Coal Combustion Products Beneficially Used		<i>Not Available</i>	2%	1%				

Forward Looking Information

This report contains forward-looking statements as defined by the Private Securities Litigation Reform Act of 1995. Tucson Electric Power Company ("TEP", "we", "us" or "our") is 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, 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, 2022, 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; the outcome of TEP's 2022 general rate case; unfavorable rulings, penalties, or findings by the Federal Energy Regulatory Commission; regional economic and market conditions that could affect customer growth and electricity usage; the continuation of 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 and the performance of our operations; 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; the potential inability to make additions to our existing high voltage transmission system; unexpected increases in operations and maintenance expense, including inflationary effects; 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; 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 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 2020 IRP.

Goal Applicability	Baseline Year	Target Year	Greenhouse Gas Reduction Goal Description (Short)	Source (URL)
Tucson Electric Power (Operating Company)	2005	2035	Reduce Scope 1 carbon dioxide emissions from fossil fuel generation by 80% compared to 2005 levels by 2035.	https://www.tep.com/resource-planning/
	NA	2035	Expansion of clean energy resources that will provide 70% renewable power by 2035.	

Notes

1. Additional information on the emissions goals listed above, including how they will be achieved, can be found in the Qualitative section.
2. Information on the type of emissions (e.g., carbon, methane, CO₂e, etc.) and which scope(s) of emissions apply — based on the WRI GHG Reporting Protocol, TCR Reporting Protocol(s), or other acceptable reporting procedures — should be included in the goal description. Emissions reported in the Quantitative section are not based on a Scope 1, 2 or 3 methodology.
3. Goal Applicability refers to the entity to which the goal applies (e.g., parent company, operating company, electric or gas utility, etc.).