



# 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 2022

Ref. No.	Baseline				Comments, Links, Additional Information, and Notes	
	2005	Last Year 2020	Current Year 2021	Future Year 2035		
<b>Portfolio</b>						
<b>1</b>	<b>Owned Nameplate Generation Capacity at end of year (MW, measured in AC)</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 Integrated Resource Plan.	
1.1	Coal	1,528	1,073	1,073		
1.2	Natural Gas	485	1,817	1,817		
1.3	Nuclear					
1.4	Petroleum					
1.5	Total Renewable Energy Resources	9	44	294		
1.5.1	Biomass/Biogas	4				
1.5.2	Geothermal					
1.5.3	Hydroelectric					
1.5.4	Solar	5	44	44		
1.5.5	Wind			250		
1.5.6	Other			747		
1b	<b>Total Owned &amp; Purchased Renewable Generation and Battery Storage Capacity (MW, measured in AC)</b>					
			779			
<b>2.i</b>	<b>Owned Net Generation for the data year (MWh)</b>					Owned net generation was determined from operational reports consistent with financial reporting, as EIA Form 923 does not indicate net generation by ownership; includes generation for retail and wholesale customers.
2.1.i	Coal	11,215,000	13,490,000	13,277,000		
2.2.i	Natural Gas	10,819,000	5,820,000	5,341,000		
2.3.i	Nuclear	368,000	7,582,000	7,285,000		
2.4.i	Petroleum					
2.5.i	Total Renewable Energy Resources	28,000	88,000	651,000		
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	88,000	78,000		
2.5.5.i	Wind			3,408,000		
2.6.i	Other			2,629,000		
<b>2.ii</b>	<b>Purchased Net Generation for the data year (MWh)</b>				Purchased net generation provided in accordance with SEC Reporting; includes generation for retail and wholesale customers.	
2.1.ii	Coal	1,639,000	2,143,000	2,661,000		
2.2.ii	Natural Gas			679,000		
2.3.ii	Nuclear					
2.4.ii	Petroleum					
2.5.ii	Total Renewable Energy Resources		783,000	999,000		
2.5.1.ii	Biomass/Biogas					
2.5.2.ii	Geothermal					
2.5.3.ii	Hydroelectric					
2.5.4.ii	Solar		585,000	800,000		
2.5.5.ii	Wind		198,000	199,000		
2.6.ii	Other	1,639,000	1,360,000	983,000		
891,000						
<b>3</b>	<b>Capital Expenditures and Energy Efficiency (EE)</b>					
3.1	Total Annual Capital Expenditures (nominal dollars)	\$149,906,000	\$840,000,000	\$499,000,000		
3.2	Incremental Annual Electricity Savings from EE Measures (MWh)	101,395	112,569	135,263		
3.3	Incremental Annual Investment in Electric EE Programs (nominal dollars)	\$1,771,000	\$9,212,000	\$11,122,000		
<b>4</b>	<b>Retail Electric Customer Count (at end of year)</b>					
4.1	Commercial	384,900	433,500	438,400		
4.2	Industrial	33,600	41,000	41,300		
4.3	Residential	700	500	500		
350,600						



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Ref. No.		Baseline	Last Year	Current Year	Future Year	Comments, Links, Additional Information, and Notes
		2005	2020	2021	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)	11,026,000	9,016,000	8,342,000	2,152,000	
5.1.1.2	Total Owned Generation CO2 Emissions Intensity (MT/Net MWh)	0.983	0.668	0.628	0.193	
5.1.2	Carbon Dioxide Equivalent (CO2e)					
5.1.2.1	Total Owned Generation CO2e Emissions (MT)	11,114,000	9,065,000	8,387,000		
5.1.2.2	Total Owned Generation CO2e Emissions Intensity (MT/Net MWh)	0.991	0.672	0.632		
<b>5.2</b>	<b>Purchased Power</b>					
5.2.1	Carbon Dioxide (CO2)					
5.2.1.1	Total Purchased Generation CO2 Emissions (MT)	768,000	531,000	585,000	98,000	
5.2.1.2	Total Purchased Generation CO2 Emissions Intensity (MT/Net MWh)	0.469	0.248	0.220	0.064	
5.2.2	Carbon Dioxide Equivalent (CO2e)					
5.2.2.1	Total Purchased Generation CO2e Emissions (MT)	772,000	534,000	587,000		
5.2.2.2	Total Purchased Generation CO2e Emissions Intensity (MT/Net MWh)	0.471	0.249	0.221		
<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)	11,794,000	9,547,000	8,927,000	2,250,000	
5.3.1.2	Total Owned + Purchased Generation CO2 Emissions Intensity (MT/Net MWh)	0.918	0.611	0.560	0.177	
5.3.2	Carbon Dioxide Equivalent (CO2e)					
5.3.2.1	Total Owned + Purchased Generation CO2e Emissions (MT)	11,886,000	9,599,000	8,974,000		
5.3.2.2	Total Owned + Purchased Generation CO2e Emissions Intensity (MT/Net MWh)	0.925	0.614	0.563		
<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	1,000	17,000		
<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	6,000	5,300	300	
6.2.2	Total NOx Emissions Intensity (MT/Net MWh)	0.001427	0.000445	0.000399	0.00003	
<b>6.3</b>	<b>Sulfur Dioxide (SO2)</b>					
6.3.1	Total SO2 Emissions (MT)	16,000	4,500	3,800	14	
6.3.2	Total SO2 Emissions Intensity (MT/Net MWh)	0.001427	0.000334	0.000286	0.000001	
<b>6.4</b>	<b>Mercury (Hg)</b>					
6.4.1	Total Hg Emissions (kg)	Not Available	9.0	7.7		
6.4.2	Total Hg Emissions Intensity (kg/Net MWh)	Not Available	0.000001	0.000001		



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Ref. No.		Baseline	Last Year	Current Year	Future Year	Comments, Links, Additional Information, and Notes
		2005	2020	2021	2035	
<b>Resources</b>						
<b>7</b>	<b>Human Resources</b>					
7.1	Total Number of Employees	1,287	1,575	1,719		
7.4	Total Number on Board of Directors/Trustees					
7.5	Percentage of Women on Board of Directors/Trustees	Refer to UNS Energy EEI Quantitative Information for Board Information				
7.6	Percentage of Minorities on Board of Directors/Trustees	Refer to UNS Energy EEI Quantitative Information for Board Information				
7.7	Employee Safety Metrics					
7.7.1	Recordable Incident Rate	Not Available	0.64	1.81		
7.7.2	Lost-time Case Rate	Not Available	0.19	0.48		
7.7.3	Days Away, Restricted, and Transfer (DART) Rate	Not Available	0.45	0.79		
7.7.4	Work-related Fatalities	Not Available	0	0		
<b>8</b>	<b>Fresh Water Resources used in Thermal Power Generation Activities</b>					
8.1	Water Withdrawals - Consumptive (Millions of Gallons)	Not Available	6,300	5,200		
8.2	Water Withdrawals - Non-Consumptive (Millions of Gallons)	Not Available	6,400	5,200		
8.3	Water Withdrawals - Consumptive Rate (Millions of Gallons/Net MWh)	Not Available	0.00047	0.00039		
8.4	Water Withdrawals - Non-Consumptive Rate (Millions of Gallons/Net MWh)	Not Available	0.00047	0.00039		
<b>9</b>	<b>Waste Products</b>					
9.1	Amount of Hazardous Waste Manifested for Disposal	Not Available	17.90	2.00		
9.2	Percent of Coal Combustion Products Beneficially Used	Not Available	3%	2%		

### Forward Looking Information

This report 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, 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, 2021, 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 and energy policies and any change in the structure of utility service in Arizona resulting from the Arizona Corporation Commission's (ACC) or state legislature's examination of the state's energy policies and applications by other companies to the ACC requesting a certificate of convenience and necessity to provide competitive electric generation service to customers in TEP service territories; 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 final outcome of TEP's 2019 Federal Energy Regulatory Commission (FERC) rate case; unfavorable rulings, penalties, or findings by the FERC; regional economic and market conditions that could affect customer growth and energy usage; changes in energy consumption by retail customers; weather variations affecting energy usage; 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; resolution of pending litigation matters; changes in accounting standards; changes in our critical accounting policies and estimates; the ongoing impact of mandated energy efficiency and distributed generation initiatives; changes to long-term contracts; the cost of fuel and power supplies; the ability to obtain coal from our suppliers; cyber-attacks, data breaches, or other challenges to our information security, including our operations and technology systems; the performance of TEP's generation facilities, including renewable generation resources; participation in the Energy Imbalance Market; the extent of the impact of the COVID-19 pandemic on our business and operations, and the economic and societal disruptions resulting from the COVID-19 pandemic and government actions taken in response thereto; and the 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.	<a href="https://www.tep.com/resource-planning/">https://www.tep.com/resource-planning/</a>
	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.).