



# 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 2020

Ref. No.		Baseline 2005	Last Year 2018	Current Year 2019	Next Year 2020	Future Year 2035	Comments, Links, Additional Information, and Notes	
<b>Portfolio</b>								
<b>1</b>	<b>Owned Nameplate Generation Capacity at end of year (MW)</b>	<b>2,064</b>	<b>3,387</b>	<b>3,481</b>	<b>3,486</b>	<b>4,508</b>	Owned generation capacity provided as nominal capacity, rather than nameplate capacity, for consistency with annual Fortis, Inc. reporting and the Tucson Electric Power and UNS Electric, Inc. Integrated Resource Plans.	
1.1	Coal	1,528	1,242	1,242	1,073			
1.2	Natural Gas	527	2,075	2,169	2,107	1,978		
1.3	Nuclear							
1.4	Petroleum							
1.5	Total Renewable Energy Resources	9	71	70	306	2,530		
1.5.1	Biomass/Biogas	4	4	4				
1.5.2	Geothermal							
1.5.3	Hydroelectric							
1.5.4	Solar	5	67	66	66	1,668		
1.5.5	Wind				247	862		
1.6	Other							
2.i	<b>Owned Net Generation for the data year (MWh)</b>	<b>11,216,461</b>	<b>14,908,936</b>	<b>15,805,287</b>	<b>12,294,700</b>	<b>13,163,659</b>		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.
2.1.i	Coal	10,818,707	7,241,435	7,069,865	6,915,560			
2.2.i	Natural Gas	369,461	7,534,825	8,622,327	5,264,876	6,237,081		
2.3.i	Nuclear							
2.4.i	Petroleum							
2.5.i	Total Renewable Energy Resources	28,293	132,676	113,094	114,265	6,926,579		
2.5.1.i	Biomass/Biogas	28,293	25,135	12,036				
2.5.2.i	Geothermal							
2.5.3.i	Hydroelectric							
2.5.4.i	Solar	Not Available	107,541	101,059	114,265	3,857,655		
2.5.5.i	Wind					3,068,924		
2.6.i	Other							
2.ii	<b>Purchased Net Generation for the data year (MWh)</b>	<b>3,313,729</b>	<b>3,524,161</b>	<b>3,551,831</b>	<b>2,220,718</b>	<b>2,230,075</b>	Purchased net generation in accordance with SEC Reporting; includes generation for retail and wholesale customers.	
2.1.ii	Coal							
2.2.ii	Natural Gas							
2.3.ii	Nuclear							
2.4.ii	Petroleum							
2.5.ii	Total Renewable Energy Resources		1,015,181	1,062,716	916,550	850,987		
2.5.1.ii	Biomass/Biogas							
2.5.2.ii	Geothermal							
2.5.3.ii	Hydroelectric							
2.5.4.ii	Solar		795,168	838,583	693,320	569,025		
2.5.5.ii	Wind		220,013	224,132	223,230	281,962		
2.6.ii	Other	3,313,729	2,508,980	2,489,115	1,304,168	1,379,088		
<b>3</b>	<b>Investing in the Future: Capital Expenditures, Energy Efficiency (EE), and Smart Meters</b>							
3.1	Total Annual Capital Expenditures (nominal dollars)	\$203,428,000	\$461,524,000	\$690,963,000				
3.2	Incremental Annual Electricity Savings from EE Measures (MWh)	122,353	119,834	135,284				
3.3	Incremental Annual Investment in Electric EE Programs (nominal dollars)	\$1,965,000	\$12,603,000	\$15,282,000				
3.4	Percent of Total Electric Customers with Smart Meters (at end of year)	Not Available	97.94%	99.71%				
<b>4</b>	<b>Retail Electric Customer Count (at end of year)</b>							
4.1	Commercial	470,016	522,328	525,411				
4.2	Industrial	45,214	52,150	51,768				
4.3	Residential	684	513	511				
		424,118	469,665	473,132				



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**State(s) of Operation:** *Arizona*  
**State(s) with RPS Programs:** *Arizona*  
**Regulatory Environment:** *Regulated*  
**Report Date:** *November 2020*

Ref. No.		Baseline 2005	Last Year 2018	Current Year 2019	Next Year 2020	Future Year 2035	Comments, Links, Additional Information, and Notes	
<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)							
5.1.1.1	Total Owned Generation CO2 Emissions (MT)	11,028,143	10,144,907	11,203,882	8,831,855	2,651,137		
5.1.1.2	Total Owned Generation CO2 Emissions Intensity (MT/Net MWh)	0.983	0.680	0.709	0.718	0.201		
5.1.2	Carbon Dioxide Equivalent (CO2e)							
5.1.2.1	Total Owned Generation CO2e Emissions (MT)	11,116,386	10,205,993	11,284,473				
5.1.2.2	Total Owned Generation CO2e Emissions Intensity (MT/Net MWh)	0.991	0.685	0.714				
<b>5.2</b>	<b>Purchased Power</b>							
5.2.1	Carbon Dioxide (CO2)							
5.2.1.1	Total Purchased Generation CO2 Emissions (MT)	1,552,864	986,476	946,845				
5.2.1.2	Total Purchased Generation CO2 Emissions Intensity (MT/Net MWh)	0.469	0.280	0.267				
5.2.2	Carbon Dioxide Equivalent (CO2e)							
5.2.2.1	Total Purchased Generation CO2e Emissions (MT)	1,560,329	992,489	952,591				
5.2.2.2	Total Purchased Generation CO2e Emissions Intensity (MT/Net MWh)	0.471	0.282	0.268				
<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)	12,581,007	11,131,383	12,150,726				
5.3.1.2	Total Owned + Purchased Generation CO2 Emissions Intensity (MT/Net MWh)	0.866	0.604	0.628				
5.3.2	Carbon Dioxide Equivalent (CO2e)							
5.3.2.1	Total Owned + Purchased Generation CO2e Emissions (MT)	12,676,715	11,198,482	12,237,064				
5.3.2.2	Total Owned + Purchased Generation CO2e Emissions Intensity (MT/Net MWh)	0.872	0.608	0.632				
<b>5.4</b>	<b>Non-Generation CO2e Emissions</b>							
5.4.1	Fugitive CO2e emissions of sulfur hexafluoride (MT)	Not Available	32,734	66,387			Emissions in 2019 are higher due to equipment retirements and a manufacturer's error on nameplate capacity for equipment. Excluding the manufacturer's error on nameplate capacity, 2019 SF6 fugitive emissions would be ~43,000 MT.	
5.4.2	Fugitive CO2e emissions from natural gas distribution (MT)	Not Available	14,787	14,881				
<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>	16,362	7,900	8,103	5,912	516		
6.2.1	Total NOx Emissions (MT)	0.001459	0.00053	0.00051	0.00048	0.000039		
6.2.2	Total NOx Emissions Intensity (MT/Net MWh)							
<b>6.3</b>	<b>Sulfur Dioxide (SO2)</b>	15,614	6,837	5,788	5,955	18		
6.3.1	Total SO2 Emissions (MT)	0.001392	0.000459	0.000366	0.000484	0.0000014		
6.3.2	Total SO2 Emissions Intensity (MT/Net MWh)							
<b>6.4</b>	<b>Mercury (Hg)</b>	Not Available	30	17	16			
6.4.1	Total Hg Emissions (kg)	Not Available	0.000002	0.000001	0.000001			
6.4.2	Total Hg Emissions Intensity (kg/Net MWh)							



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<b>Resources</b>						
<b>7</b>	<b>Human Resources</b>					
7.1	1,947	2,049	2,103			
7.2	11	10	10			
7.3	2	3	3			
7.4	3	3	3			
7.5	<b>Employee Safety Metrics</b>					
7.5.1	Not Available	1.48	1.77			
7.5.2	Not Available	0.36	0.79			
7.5.3	Not Available	0.72	0.89			
7.5.4	Not Available	0	0			
<b>8</b>	<b>Fresh Water Resources</b>					
8.1	Not Available	0.00000180	0.00000174			
8.2	Not Available	0.00000181	0.00000176			
<b>9</b>	<b>Waste Products</b>					
9.1	Not Available	6.18	1.97			
9.2	Not Available	6%	6%			
<b>Additional Metrics (Optional)</b>						
<i>Insert additional rows in this section as necessary.</i>						