



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 2019*

Ref. No.		Baseline 2005	2017	Reporting Year 2018	Future Year 2032	Comments, Links, Additional Information, and Notes	
Portfolio							
1	Owned Nameplate Generation Capacity at end of year (MW)	2,064	3,008	3,387	3,201	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	1,412	1,242	793	(1) In August 2015, TEP exhausted its existing coal supply at Sundt Station Unit 4 and plans to continue operating Sundt Station Unit 4 with natural gas as a primary fuel source. The the nominal generating capacity assumes the unit is fueled by coal.	
1.2	Natural Gas	527	1,525	2,075	2,145		
1.3	Nuclear						
1.4	Petroleum						
1.5	Total Renewable Energy Resources	9	71	71	263		
1.5.1	Biomass/Biogas	4	4	4			
1.5.2	Geothermal						
1.5.3	Hydroelectric						
1.5.4	Solar	5	67	67	263		
1.5.5	Wind						
1.6	Other						
2.i	Owned Net Generation for the data year (MWh)	11,216,461	11,541,767	14,908,936	12,588,093		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	7,565,120	7,241,435	5,650,315		
2.2.i	Natural Gas	369,461	3,843,714	7,534,825	6,294,808		
2.3.i	Nuclear						
2.4.i	Petroleum						
2.5.i	Total Renewable Energy Resources	28,293	132,933	132,676	642,970		
2.5.1.i	Biomass/Biogas	28,293	24,474	25,135			
2.5.2.i	Geothermal						
2.5.3.i	Hydroelectric						
2.5.4.i	Solar	Not Available	108,459	107,541	642,970		
2.5.5.i	Wind						
2.6.i	Other						
2.ii	Purchased Net Generation for the data year (MWh)	3,313,729	4,576,570	3,524,161	3,868,683	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		935,717	1,015,181	2,357,059		
2.5.1.ii	Biomass/Biogas						
2.5.2.ii	Geothermal						
2.5.3.ii	Hydroelectric						
2.5.4.ii	Solar		724,464	795,168	1,312,477		
2.5.5.ii	Wind		211,253	220,013	1,044,582		
2.6.ii	Other	3,313,729	3,640,853	2,508,980	1,511,624	Other purchases include market purchases from the grid which cannot be identified by type.	
3	Investing in the Future: Capital Expenditures, Energy Efficiency (EE), and Smart Meters						
3.1	Total Annual Capital Expenditures (nominal dollars)	\$ 203,428,000	\$ 412,025,000	\$ 461,524,000			
3.2	Incremental Annual Electricity Savings from EE Measures (MWh)	122,353	144,150	119,834			
3.3	Incremental Annual Investment in Electric EE Programs (nominal dollars)	\$ 1,965,000	\$ 18,430,000	\$ 12,603,000			
3.4	Percent of Total Electric Customers with Smart Meters (at end of year)	Not Available	98.17%	97.94%			
4	Retail Electric Customer Count (at end of year)	470,016	518,488	522,328			
4.1	Commercial	45,214	51,970	52,150			
4.2	Industrial	684	529	513			
4.3	Residential	424,118	465,989	469,665			



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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)	11,028,143	9,307,386	10,144,907	8,112,183
5.1.1.2	Total Owned Generation CO2 Emissions Intensity (MT/Net MWh)	0.983	0.806	0.680	0.644
5.1.2	Carbon Dioxide Equivalent (CO2e)				
5.1.2.1	Total Owned Generation CO2e Emissions (MT)	11,116,386	9,369,033	10,205,993	
5.1.2.2	Total Owned Generation CO2e Emissions Intensity (MT/Net MWh)	0.991	0.812	0.685	
5.2	Purchased Power				
5.2.1	Carbon Dioxide (CO2)				
5.2.1.1	Total Purchased Generation CO2 Emissions (MT)	1,552,864	1,431,502	986,476	
5.2.1.2	Total Purchased Generation CO2 Emissions Intensity (MT/Net MWh)	0.469	0.313	0.280	
5.2.2	Carbon Dioxide Equivalent (CO2e)				
5.2.2.1	Total Purchased Generation CO2e Emissions (MT)	1,560,329	1,440,229	992,489	
5.2.2.2	Total Purchased Generation CO2e Emissions Intensity (MT/Net MWh)	0.471	0.315	0.282	
5.3	Owned Generation + Purchased Power				
5.3.1	Carbon Dioxide (CO2)				
5.3.1.1	Total Owned + Purchased Generation CO2 Emissions (MT)	12,581,007	10,738,888	11,131,383	
5.3.1.2	Total Owned + Purchased Generation CO2 Emissions Intensity (MT/Net MWh)	0.866	0.666	0.604	
5.3.2	Carbon Dioxide Equivalent (CO2e)				
5.3.2.1	Total Owned + Purchased Generation CO2e Emissions (MT)	12,676,715	10,809,262	11,198,482	
5.3.2.2	Total Owned + Purchased Generation CO2e Emissions Intensity (MT/Net MWh)	0.872	0.671	0.608	
5.4	Non-Generation CO2e Emissions				
5.4.1	Fugitive CO2e emissions of sulfur hexafluoride (MT)	Not Available	11,238	32,734	
5.4.2	Fugitive CO2e emissions from natural gas distribution (MT)	Not Available	14,710	14,787	
6	Nitrogen Oxide (NOx), Sulfur Dioxide (SO2), Mercury (Hg)				
6.1	Generation basis for calculation	Other			
6.2	Nitrogen Oxide (NOx)				
6.2.1	Total NOx Emissions (MT)	16,362	8,617	7,900	5,683
6.2.2	Total NOx Emissions Intensity (MT/Net MWh)	0.001459	0.000747	0.000530	0.000451
6.3	Sulfur Dioxide (SO2)				
6.3.1	Total SO2 Emissions (MT)	15,614	4,682	6,837	4,550
6.3.2	Total SO2 Emissions Intensity (MT/Net MWh)	0.001392	0.000406	0.000459	0.000361
6.4	Mercury (Hg)				
6.4.1	Total Hg Emissions (kg)	Not Available	29.95	29.5	19.5
6.4.2	Total Hg Emissions Intensity (kg/Net MWh)	Not Available	0.000001	0.000002	0.000002

Resources

7	Human Resources				
7.1	Total Number of Employees	1,947	2,024	2,049	
7.2	Total Number on Board of Directors/Trustees	11	9	10	
7.3	Total Women on Board of Directors/Trustees	2	2	3	
7.4	Total Minorities on Board of Directors/Trustees	3	2	3	
7.5	Employee Safety Metrics				
7.5.1	Recordable Incident Rate	Not Available	1.18	1.48	
7.5.2	Lost-time Case Rate	Not Available	0.74	0.36	
7.5.3	Days Away, Restricted, and Transfer (DART) Rate	Not Available	0.89	0.72	
7.5.4	Work-related Fatalities	Not Available	0	0	



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8	Fresh Water Resources					
8.1	Water Withdrawals - Consumptive (Billions of Liters/Net MWh)	Not Available	0.00000185	0 00000180		
8.2	Water Withdrawals - Non-Consumptive (Billions of Liters/Net MWh)	Not Available	Not Available	0 00000181		
9	Waste Products					
9.1	Amount of Hazardous Waste Manifested for Disposal	Not Available	3.21	6.18		
9.2	Percent of Coal Combustion Products Beneficially Used	Not Available	5%	6%		