



GLOBAL REPORTING INITIATIVE (GRI) ALIGNMENT TO TVA METRICS

GRI Category Information			Year		
Category	Topic	Key Performance Metric Name	FY 2017	FY 2018	FY 2019
102	General Disclosures	Total number of Board of Director members	6	8	9
102	General Disclosures	Total number of Female Board of Director members	3	1	1
102	General Disclosures	Total number of Minority Board of Director members	2	1	1
102	General Disclosures	Total Number of Employees	10,092	10,023	10,009
102	General Disclosures	Military Share of Workforce (%)	17.47%	18.32%	18.10%
102	General Disclosures	Minority Share of Workforce (%)	11.17%	11.31%	11.80%
102	General Disclosures	Women Share of Workforce (%)	19.01%	20.12%	20.10%
102	General Disclosures	Winning Performance Payout (%)	103%	130%	116%
102	General Disclosures	Training for Career Advancement (hours/employee)	76.92	77.71	73.7
102	General Disclosures	Continuing Education Contributions (\$)	665,753	498,041	443,789
102	General Disclosures	Total Nuclear Generation (GWh)	58,742	64,194	63,433
102	General Disclosures	Total Natural Gas or Oil Fired Generation (GWh)	25,485	32,104	31,704
102	General Disclosures	Total Coal Generation (GWh)	39,019	31,471	27,934
102	General Disclosures	Total Hydro Generation (GWh)	10,967	13,736	16,058
102	General Disclosures	Total Purchased Renewable Generation (GWh)	7,127	7,245	7,840
102	General Disclosures	Federal Sustainability Report Disclosure	SR&IP and AEMR	SR&IP and AEMR	SR&IP and AEMR
102	General Disclosures	Investor Sustainability Report Disclosure	EI-ESG Industry Working Group	EI-ESG Industry Pilot	EI-ESG Industry Template
102	General Disclosures	Customer Carbon Accounting Disclosure	Annual Customer Carbon Accounting	Annual Customer Carbon Accounting	Annual Customer Carbon Accounting
201	Economic Performance	Operating Revenues (\$M)	10,739	11,233	11,318
201	Economic Performance	O & M Expense (\$M)	2,604	2,598	3,090
201	Economic Performance	Non-Fuel Delivered Cost of Power (cents/kWh)	3.10	3.18	3.46
201	Economic Performance	Retail Rate (cents/KWh)	9.17	9.16	9.28
201	Economic Performance	Incremental Annual Electricity Savings from EE (MWh)(CY)	225,753	228,202	32,377
201	Economic Performance	Incremental Annual Investment in Electric EE programs \$(CY)	76,192,000	36,213,000	21,406,000
201	Economic Performance	Operating Cash Flow (\$M)	2,728	3,938	3,720
201	Economic Performance	Net Income (\$M)	685	1,119	1,417
201	Economic Performance	Total Spend (\$M)	4,917	4,353	4,467
201	Economic Performance	Total Financing Obligations (\$B)*	26.0*	24.3*	22.8*
201	Economic Performance	Combined Cycle Seasonal Equivalent Forced Outage Rate (SEFOR)	3.20%	1.60%	7.50%
201	Economic Performance	Coal Seasonal Equivalent Forced Outage Rate (SEFOR)	14.50%	12.50%	12.70%
201	Economic Performance	Nuclear Unit Capability Factor	90.70%	91.30%	89.80%
201	Economic Performance	Load Not Served (System Minutes)	4.3	3.3	3.7
201	Economic Performance	Reliability Rating (Transmission System) (%)	99.999%	99.999%	99.999%
201	Economic Performance	Inventory Value—Materials and Supplies Inventory (\$M)	734	725	742
201	Economic Performance	External Nuclear Performance Indicators	90.7%	91.3%	89.8% (UCF)
201	Economic Performance	Total Annual Capital Expenditures (\$M)	\$2,153	\$1,759	\$1,700
201	Economic Performance	Coal Equivalent Availability Factor	64.5%	61.9%	65.2%
201	Economic Performance	Combined Cycle Equivalent Availability Factor	82.4%	80.1%	84.6%
201	Economic Performance	Economic Development - Capital Investment in the Valley (\$B)	8.3	11.3	8.9
203	Indirect Economic Impacts	Jobs Created or Retained (#)	70,076	65,423	66,572
203	Indirect Economic Impacts	Flood Management: Avoided Flood Damage (\$M)	\$260	\$260	\$1,600
203	Indirect Economic Impacts	Total Acres of Habitat Protected (# acres)	247,706	247,706	247,706
204	Procurement Practices	Supplier Diversity: Total Diverse Business Spend (\$M)	390	445	395

204	Procurement Practices	Supplier Diversity: Diverse Business Utilization (%)	12.00%	15.10%	13.70%
204	Procurement Practices	Supplier Diversity: Total Small Business Spend (\$M)	1,000	822	766
204	Procurement Practices	Supplier Diversity: Small Business Utilization (%)	29.00%	27.80%	26.60%
204	Procurement Practices	Supplier Diversity: Total Valley Business Spend (\$B)	2.7	2.2	2.0
204	Procurement Practices	Valley Spend Utilization (%)	80%	74.30%	68.80%
301	Materials	Waste: Coal Combustion Products Beneficially Used (%) (CY)	41%	38%	45%*****
302	Energy	Performance Contracting - Investment Value (\$M)	\$3.98	\$5.40	\$4.91
302	Energy	Sustainable Buildings Progress (% reduction from baseline: GSF)	4.80%	5.10%	22.00%
302	Energy	Building Energy Intensity Progress (% reduction from FY2003: Btu/GSF) (EO 13834)	36.90%	62.60%	64.30%
302	Energy	Building Renewable Energy Use (% renewable sources) (EO 13834)	13.10%	18.00%	18.30%
303	Water and Effluents	Building Potable Water Intensity Progress (% reduction from FY2007: Gal/GSF) (EO 13834)	28.20%	31.60%	36.90%
303	Water and Effluents	Water Supply: Freshwater Consumption Rate (All Generation) (Billions of Liters/Net MWh)(CY)	0.0000006	0.0000007	0.0000006
303	Water and Effluents	Water: Total Water Withdrawal-non consumptive (Billions of Liters/Net MWh) (CY))	0.0001001	0.0000978	0.0001116
305	Emissions	Clean Energy (Power from carbon-free sources delivered) (%)	50%	52%	54%
305	Emissions	Scope 1 and 2 GHG Emissions (% reduction from FY2008)	36.10%	41.00%	41.60%
305	Emissions	Scope 3 GHG Emissions (% reduction)	29.50%	29.60%	31.97%
305	Emissions	CLIMATE: TVA CO2 Tons from Owned Generation (metric tons) reported in CY	51,082,818	47,521,550	43,090,822
305	Emissions	CLIMATE: TVA Emissions (Owned CO2 Tons/GWh)	416	360	307
305	Emissions	CLIMATE: CO2 Emissions rate - System TVA Scope 2 CO2 Emissions Rate (Owned and Purchased lbs/MWh) reported in CY	850.91	825.09	741.66
305	Emissions	CLIMATE: TVA CO2e Scope 1 Emissions (metric tons) (CY)	56,473,166	47,720,320	43,696,845
305	Emissions	CLIMATE: TVA CO2e Scope 2 Emissions (metric tons) (CY)	227,277	208,159	200,153
305	Emissions	CLIMATE: TVA CO2e Scope 3 Emissions (metric tons) (CY)***	2,617,751	72,095.60	73,994.45
305	Emissions	Air: TVA SO2 Emissions (metric tons) (CY)	42,741	26,744	26,972
305	Emissions	Air: TVA NOx Emissions (metric tons) (CY)	27,443	21,451	19,430
305	Emissions	Air: TVA Mercury Emissions (kg) (CY)	79.4	67.7	50.1
306	Effluents and Waste	Non-hazardous Municipal Solid Waste Diversion (% diverted / recycled)**	7.00%	5.42%	4.53%
306	Effluents and Waste	Waste: Low-level radioactive waste disposal rate (ft3/MWh)	0.00172640	0.00252050	0.0033666
306	Effluents and Waste	Waste: Amount of Hazardous Waste Disposed (MT) (CY)	117.43	52.44	93.67
307	Environmental Compliance	Compliance: Notice of Violations (NOV)	3	1	4
403	Occupational Health and Safety	Safe Workplace (RIR)	0.39	0.34	0.44
403	Occupational Health and Safety	Lost Time Case Rate (OSHA)	0.08	0.12	0.00
403	Occupational Health and Safety	Days Away, Restricted, and Transfer (DART) rate (OSHA)	0.2	0.25	0.00
403	Occupational Health and Safety	Serious Injury Incident Rate (SIIR)	0.03	0.05	0.06
403	Occupational Health and Safety	Work-related Fatalities	0	0	0
413	Local Communities	Environmental & Community Engagement (# Group activities)	617	598	805
413	Local Communities	Environmental & Community Engagement (# Children participating)	9,207	11,650	10,325
413	Local Communities	Stakeholder Survey (%)****	81.8%	81.4%	80.0%
413	Local Communities	Customer Loyalty (VOC Survey Results)****	70.30%	72%	71.3
413	Local Communities	Media Tone (Positive and Neutral)****	90.00%	90.30%	89.3%
414	Supplier Social Assessment	Sustainable Acquisition Progress – Obligations in Dollars containing Statutory Environmental Requirements (% of contract dollars with environmental clauses)	95.00%	68.50%	93.70%

** Does not include construction and demolition waste.

*** These are partial scope 3 CO2e rates.

**** Three-year average, not annual value.

***** The data was updated from 41% to 45% due to a calculation error discovered 8/2020.