

Global Reporting Initiative (GRI) Metrics

Category	Topic	Key Performance Metric Name	FY 2020	FY 2021	FY 2022
2-9	General Disclosures	Total number of Board of Director Members	5	7	5
2-9	General Disclosures	Total number of Female Board of Director Members	0	1	1
2-9	General Disclosures	Total number of Minority Board of Director Members	0	0	0
2-7	General Disclosures	Total Number of Employees	9,989	10,192	10,390
2-7	General Disclosures	Winning Performance Payout (%)	137%	142%	119%
2-1	General Disclosures	Total Owned Summer Net Capability at the end of year (MW) ⁶	32,750	32,433	32,012
2-1	General Disclosures	Owned Coal Summer Net Capability at the end of year (MW)	6,915	6,580	6,580
2-1	General Disclosures	Owned Natural Gas Summer Net Capability at the end of year (MW) ⁶	12,509	12,183	11,777
2-1	General Disclosures	Owned Nuclear Summer Net Capability at the end of year (MW)	7,922	8,275	8,232
2-1	General Disclosures	Owned Petroleum (Diesel) Summer Net Capability at the end of year (MW)	9	9	9
2-1	General Disclosures	Owned Total Renewable Energy Resources Summer Net Capability at the end of year (MW)	5,395	5,386	5,409
2-1	General Disclosures	Owned Biomass/Biogas Summer Net Capability at the end of year (MW)	0	0	0
2-1	General Disclosures	Owned Geothermal Summer Net Capability at the end of year (MW)	0	0	0
2-1	General Disclosures	Owned Hydroelectric Summer Net Capability at the end of year (MW)	5,394	5,385	5,408
2-1	General Disclosures	Owned Solar Summer Net Capability at the end of year (MW)	1	1	1
2-1	General Disclosures	Owned Wind Summer Net Capability at the end of year (MW)	0	0	0
2-1	General Disclosures	Owned Other Summer Net Capability at the end of year (MW)	0	0	5
2-1	General Disclosures	Total Owned Net Generation (GWh)	134,386	139,300	135,667
2-1	General Disclosures	Nuclear Generation (GWh)	64,531	66,265	64,475
2-1	General Disclosures	Natural Gas and/or Oil-Fired Generation (GWh)	33,479	33,290	36,259
2-1	General Disclosures	Coal-Fired Generation (GWh)	19,732	23,391	20,999
2-1	General Disclosures	Hydroelectric Generation (GWh)	16,644	16,354	13,934
2-1	General Disclosures	Petroleum Generation (GWh)	0	0	0
2-1	General Disclosures	Total Owned Renewable Energy Resources Generation (GWh)	16,644	16,354	13,934
2-1	General Disclosures	Total Purchased Power Generation (GWh)	19,435	20,478	29,789
2-1	General Disclosures	Purchased Power Renewable Generation (GWh)	7,683	7,269	8,684
2-1	General Disclosures	Federal Sustainability Report Disclosure	SR&IP and AEMR	SR&IP and AEMR	SR&IP and AEMR

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2-1	General Disclosures	Investor Sustainability Report Disclosure	EEl-ESG Industry Template	EEl-ESG Industry Template	EEl-ESG Industry Template
2-1	General Disclosures	Customer Carbon Accounting Disclosure	Annual Customer Carbon Accounting	Annual Customer Carbon Accounting	Annual Customer Carbon Accounting
201	Economic Performance	Operating Revenues (\$M)	10,249	10,503	12,540
201	Economic Performance	O & M Expense (\$M)	2,720	2,890	2,986
201	Economic Performance	Non-Fuel Delivered Cost of Power (cents/kWh)	3.2	3.22	3.18
201	Economic Performance	Retail Rate (cents/kWh)	9.14	9.18	10.25
201	Economic Performance	Incremental Annual Electricity Savings from EE (MWh) (CY)	101,138	19,777	37,708
201	Economic Performance	Incremental Annual Investment in EE programs (\$) (CY)	15,660,000	25,386,000	33,296,000
201	Economic Performance	Operating Cash Flow (\$M)	3,636	3,256	2,948
201	Economic Performance	Net Income (\$M)	1,352	1,512	1,108
201	Economic Performance	Total Spend (\$M)	4,441	5,144	5,580
201	Economic Performance	Total Financing Obligations (\$B) ¹	21.4	20.5	20.3
201	Economic Performance	Nuclear Unit Capability Factor (%)	90.00%	90.5%	N/A
2-1	Economic Performance	Annualized Nuclear Online Reliability Loss Factor (%)	NEW in 2022	NEW in 2022	1.13%
201	Economic Performance	Load Not Served (System Minutes)	2.7	3.2	4.5
201	Economic Performance	Reliability Rating (Transmission System) (%)	99.999%	99.999%	99.999%
201	Economic Performance	Inventory Value – Materials and Supplies Inventory (\$M)	770	775	808
201	Economic Performance	External Nuclear Performance Indicators Measures	85.1%	91.1%	94.0%
201	Economic Performance	Total Annual Capital Expenditures (\$M) ⁷	1,643	1,963	2,361
201	Economic Performance	Coal Equivalent Availability Factor (EAF)	79.40%	71.60%	74.90%
201	Economic Performance	Combined Cycle Equivalent Availability Factor (EAF)	84.00%	85.30%	83.30%
201	Economic Performance	Economic Development - Capital Investment in the Valley (\$B)	8.6	8.8	10.2
202	Market Presence	Commercial Retail Electric Customer Count (average of CY) ⁵	17	17	16
202	Market Presence	Industrial Retail Electric Customer Count (average of CY) ⁵	43	43	45
202	Market Presence	Residential Retail Electric Customer Count (average of CY) ⁵	0	0	0
203	Indirect Economic Impacts	Jobs Created (#)	19,400	22,599	26,512
203	Indirect Economic Impacts	Jobs Retained (#)	48,031	58,350	40,027
203	Indirect Economic Impacts	Flood Management: Estimated Avoided Flood Damage (\$M)	1,000	170	3
204	Procurement Practices	Supplier Diversity: Total Diverse Business Spend (\$M)	388.5	365	518



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204	Procurement Practices	Supplier Diversity: Diverse Business Utilization (%)	14.20%	10.80%	13.90%
204	Procurement Practices	Supplier Diversity: Total Small Business Spend (\$M)	844	856	1,100
204	Procurement Practices	Supplier Diversity: Small Business Utilization (%)	32.30%	25.20%	30.30%
204	Procurement Practices	Supplier Diversity: Total Valley Business Spend (\$B)	1.8	1.8	2.0
204	Procurement Practices	Valley Spend Utilization (%)	65.20%	52.80%	55.30%
301	Materials	Waste: Coal Combustion Products Beneficially Used (%) (CY)	87%	59%	82%
302	Energy	Performance Contracting - Investment Value (\$M)	3.3	2.5	3.4
302	Energy	Sustainable Buildings Progress (% reduction from baseline: GSF)	22.00%	22.30%	22.30%
302	Energy	Building Energy Intensity Progress (% reduction from FY 2003: Btu/GSF) (EO 13834)	67.60%	74.80%	76.40%
302	Energy	Building Renewable Energy Use (% renewable sources) (EO 13834)	18.70%	20.20%	20.70%
303	Water and Effluents	Building Potable Water Intensity Progress (% reduction from FY 2007: Gal/GSF) (EO 13834)	48.00%	40.60%	45.00%
303	Water and Effluents	Water Supply: Freshwater Consumption Rate (All Generation) (Billions of Liters/Net MWh) (CY)	0.0000008	0.0000008	0.0000007
303	Water and Effluents	Water: Total Water Withdrawal-non consumptive (Billions of Liters/Net MWh) (CY)	0.0000823	0.0000823	0.000231
304	Biodiversity	Total Acres of Habitat Protected (# acres)	247,104	247,098	247,257
305	Emissions	Clean Energy (Power from Carbon-Free Sources delivered) (%)	57%	56%	52%
305	Emissions	Scope 1 and 2 GHG Emissions (% reduction from FY 2008) (EO 14057)	51.00%	58.40%	64.1%
305	Emissions	Scope 3 GHG Emissions (% reduction) (EO 14057)	54.80%	58.90%	43.80%
305	Emissions	CLIMATE: TVA CO ₂ Tons from Owned Generation (metric tons) reported in CY	34,237,908	38,437,510	38,966,496
305	Emissions	CLIMATE: TVA Emissions (Owned CO ₂ Tons/ GWh)	288	303	317
305	Emissions	CLIMATE: TVA Emissions (Owned CO ₂ Metric Tons/ Net MWh) (CY/FY)	0.255	0.276	0.287
305	Emissions	CLIMATE: Purchased Generation CO ₂ Emissions (metric tons)	6,521,407	7,192,903	9,883,774
305	Emissions	CLIMATE: CO ₂ Emissions rate - System TVA Scope 2 CO ₂ Emissions Rate (Owned and Purchased lbs/MWh reported in CY)	561.92	637.67	658.06
305	Emissions	CLIMATE: Owned and Purchased Generation CO ₂ Emissions (metric tons) (CY)	40,759,315	45,630,413	48,850,518
305	Emissions	CLIMATE: Owned and Purchased Generation Emissions (Owned and Purchased CO ₂ Metric Tons/Net MWh) (CY/FY)	0.265	0.286	0.338
305	Emissions	CLIMATE: TVA CO ₂ e Scope 1 Emissions (metric tons) (CY)	34,762,588	40,374,877	41,184,773
305	Emissions	CLIMATE: TVA CO ₂ e Scope 2 Emissions (metric tons) (CY)	170,039	142,802	122,840

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305	Emissions	CLIMATE: TVA CO ₂ e Scope 3 Emissions (metric tons) (CY) ³	66,967	68,467	57,573
305	Emissions	Air: TVA SO ₂ Emissions from TVA Owned Generation (metric tons) (CY)	17,082	25,226	22,331
305	Emissions	Air: TVA NO _x Emissions from TVA Owned Generation (metric tons) (CY)	12,577	15,210	15,270
305	Emissions	Non-Generation Fugitive CO ₂ e Emissions: Sulfur Hexafluoride (metric tons) (CY)	35,541	74,619	62,133
305	Emissions	Air: TVA Mercury Emissions from TVA Owned Generation (kg) (CY)	17.50	22.26	39.17
306	Effluents and Waste	Non-hazardous Municipal Solid Waste Diversion (% diverted or recycled) ²	3.90	2.98	0.8
306	Effluents and Waste	Waste: Low-level radioactive waste disposal rate (ft3/MWh) (CY)	0.00197	0.002533	0.002798
306	Effluents and Waste	Waste: Amount of Hazardous Waste Disposed (metric tons) (CY)	93.13	50.10	32.00
307	Environmental Compliance	Compliance: Notice of Violations (NOV)	6	1	4
403	Occupational Health and Safety	Safe Workplace (RIR)	0.34*	0.26	0.44
403	Occupational Health and Safety	Lost Time Case Rate (OSHA)	0.10	0.04	0.07
403	Occupational Health and Safety	Days Away, Restricted, and Transfer (DART) rate (OSHA)	0.17	0.11	0.17
403	Occupational Health and Safety	Serious Injury Incident Rate (SIIR)	0.03	0.03	0.02
403	Occupational Health and Safety	Work-related Fatalities	0	0	1
404	Training and Education	Training for Career Advancement (hours/employee)	64.02	68.65	70.16
404	Training and Education	Continuing Education Contributions (\$)	567,715	436,764	465,684
405	Diversity and Equal Opportunity	Military Share of Workforce (%)	18.10%	17.90%	17.54%
405	Diversity and Equal Opportunity	People of Color Share of Workforce (%)	11.00%	11.24%	11.81%
405	Diversity and Equal Opportunity	Women Share of Workforce (%)	20.10%	20.37%	20.78%
411	Rights of Indigenous Peoples	Tribal Engagement	36	57	38
413	Local Communities	Environmental & Community Engagement (# Group activities)	307	264	449
413	Local Communities	Environmental & Community Engagement (# Children participating)	2,615	26,777	3,800
413	Local Communities	Annual Tax Equivalent Payments (without FCA) (\$M) ⁵	552	500	512
413	Local Communities	Back-to-Business Credit Program (\$)	9,887,500	3,219,298	N/A
413	Local Communities	Community Care Fund (\$)	2,563,651	1,771,177	4,450,875
413	Local Communities	Employee Hours Volunteered (Hours)	4,400	2,637.5	1,800.8
413	Local Communities	Stakeholder Survey (%) ⁴	78.2%	78.3%	79.4%



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413	Local Communities	Customer Loyalty (VOC Survey Results) ⁴	70.7%	70.3%	71.3%
413	Local Communities	Media Tone (Positive and Neutral) ⁴	85.3%	85.7%	83.3%
414	Supplier Social Assessment	Sustainable Acquisition Progress – Obligations in Dollars containing Statutory Environmental Requirements (% of contract dollars with environmental clauses)	89.3%	96.7%	97.5%

¹ Revised due to reclassifications

² Does not include construction and demolition waste

³ These are partial Scope 3 CO₂e rates

⁴ Three-year average, not annual rate

⁵ Customer count is based on meters in accordance with the definition on Form EIA-861 Annual Electric Power Industry Report.

⁶ Caledonia Combined Cycle Plant is currently a leased facility operated by TVA.

⁷ Construction Expenditures based on Statement of Cash Flows

⁸ Revised from previous reporting to address errors.

New and Retained Job Definitions

“New jobs” in the TVA fiscal year are newly created, paid positions at a facility of a TVA customer. “Positions” are calculated by adding (1) the number of full-time, on-site employees and/or independent contractors at the facility, (2) the total number of full-time work-from-home employees and independent contractors who reside in the TVA service territory and who spend 100% of their work time on facility-related matters, and (3) the total hours worked on facility-related matters by (a) full-time and part-time on-site employees at the facility and full-time and part-time work-from-home employees who reside in the TVA service territory and (b) who spend less than 100% of their work time on facility-related matters, divided by the number of work hours of such employees based on a 40 hour work week. A “TVA customer” means an entity that purchases power from TVA or a distributor of TVA power. New jobs reported by TVA may include positions created during the current TVA fiscal year and certified projections of anticipated positions to be created within a five-year time frame. New job numbers reported by TVA are certified and provided to TVA by TVA customers.

“Retained jobs” are paid positions at a facility of a TVA customer that were created prior to the current TVA fiscal year and that continue to be filled in the current TVA fiscal year. “Positions” are calculated by adding (1) the number of full-time, on-site employees and/or independent contractors at the facility, (2) the total number of full-time work-from-home employees and independent contractors who reside in the TVA service territory and who spend 100% of their work time on facility-related matters, and (3) the total hours worked on facility-related matters by (a) full-time and part-time on-site employees at the facility and full-time and part-time work-from-home employees who reside in the TVA service territory and (b) who spend less than 100% of their work time on facility-related matters, divided by the number of work hours of such employees based on a 40 hour work week. A “TVA customer” means an entity that purchases power from TVA or a distributor of TVA power. Retained job numbers reported by TVA are certified and provided to TVA by TVA customers. All statistics reported are based on best available data.