

Sustainability Accounting Standards Board (SASB) Metrics

Code	Topic	Metric	FY 2022
IF-EU-110a.1	Greenhouse Gas Emissions & Energy Resource Planning	(1) Gross global Scope 1 emissions (Metric Tons)	41,184,773
IF-EU-110a.1	Greenhouse Gas Emissions & Energy Resource Planning	(2) Percentage covered under emissions-limiting regulations	0%
IF-EU-110a.1	Greenhouse Gas Emissions & Energy Resource Planning	(3) Percentage covered under emissions-reporting regulations	100%
IF-EU-110a.2	Greenhouse Gas Emissions & Energy Resource Planning	Greenhouse gas (GHG) emissions associated with power deliveries (Metric Tons)	48,850,518
IF-EU-110a.3	Greenhouse Gas Emissions & Energy Resource Planning	Discussion of long-term and short-term strategy or plan to manage Scope 1 emissions, emissions reduction targets, and an analysis of performance against those targets	TVA has achieved a 54% reduction in mass carbon emissions since 2005 (system emissions include owned and purchased power). TVA sees a path to about 80% reduction by 2035 and aspires to achieve net-zero carbon emissions by 2050. Strategic Intent and Guiding Principles Federal Sustainability Report and Implementation Plan
IF-EU-110a.4	Greenhouse Gas Emissions & Energy Resource Planning	(1) Number of customers served in markets subject to renewable portfolio standards (RPS)	TVA serves about 9,000 customers in North Carolina, which covers 6% of the service area and is the only state in the service area with an RPS.
IF-EU-110a.4	Greenhouse Gas Emissions & Energy Resource Planning	(2) Percentage fulfillment of RPS target by market	100%
IF-EU-120a.1	Air Quality	Air emissions of the following pollutants: (1) NO _x (excluding N ₂ O) (Metric Tons)	15,269.79
IF-EU-120a.2	Air Quality	(2) SO _x (Metric Tons)	22,331.49
IF-EU-140a.1	Water Management	(1) Total water withdrawn (Thousand cubic meters)	12,033,731
IF-EU-140a.1	Water Management	(2) Total water consumed (Thousand cubic meters)	88,215.26
IF-EU-140a.1	Water Management	(3) Percentage of water drawn and consumed in regions with High or Extremely High Baseline Water Stress	0
IF-EU-140a.2	Water Management	Number of incidents of non-compliance associated with water quantity and/or quality permits, standards and regulations	11
IF-EU-140a.3	Water Management	Description of water management risks and discussion of strategies and practices to mitigate those risks	Climate Action Adaption and Resiliency Plan Water Use in the Tennessee Valley Study
IF-EU-150a.1	Coal Ash Management	(1) Amount of coal combustion residuals (CCR) generated (Metric Tons)	1,504,414
IF-EU-150a.1	Coal Ash Management	(2) Percentage recycled	82%
IF-EU-150a.2	Coal Ash Management	Total number of coal combustion residual (CCR) impoundments, broken down by hazard potential classification and structural integrity assessment	CCR Rule Compliance Data and Information
IF-EU-240a.1	Energy Affordability	Average retail electric rate for residential customers	12.11 cents/kWh



Code	Topic	Metric	FY 2022
IF-EU-240a.1	Energy Affordability	Average retail electric rate for commercial customers	11.84 cents/kWh
IF-EU-240a.1	Energy Affordability	Average retail electric rate for industrial customers	5.90 cents/kWh
IF-EU-240a.4	Energy Affordability	Discussion of impact of external factors on customer affordability of electricity, including the economic conditions of the service territory	Annual Report Connected Communities (tva.com) TVA Agency Equity Action Plan (EO 13985) 2022
IF-EU-320a.1	Workforce Health & Safety	(1) Total recordable incident rate (TRIR)	0.44
IF-EU-320a.1	Workforce Health & Safety	(2) Fatality rate	0.0096%
IF-EU-420a.3	End-Use Efficiency & Demand	Customer electricity savings from efficiency measures, by market (MWh)	37,708
IF-EU-540a.1	Nuclear Safety & Emergency Management	Total number of nuclear power units, broken down by U.S. Nuclear Regulatory Commission (NRC) Action Matrix Column	TVA operates seven nuclear power units at three sites; all units are in the Licensee Response Column of the NRC Action Matrix.
IF-EU-540a.2	Nuclear Safety & Emergency Management	Description of efforts to manage nuclear safety and emergency preparedness	As TVA operates its nuclear fleet safely and efficiently, it is investing in projects to continue to improve safety, increase power output and extend unit operating life. TVA's nuclear plants have multiple safety systems in place to keep the TVA workforce and the communities it serves safe. Safety systems include physical barriers that protect against radiation release and layers of redundant and diverse backup power systems to keep reactors sufficiently cooled – even in the most extreme or unlikely events. Additionally, the plants operate with oversight by the U.S. Nuclear Regulatory Commission, which has inspectors physically stationed at each site.
IF-EU-550a.1	Grid Resiliency	Number of incidents of non-compliance with physical and/or cybersecurity standards or regulations	Physical noncompliance incidents: 1 Cyber noncompliance incidents: 8