

## Appendix B – SASB Disclosure Initiatives

Code	Topic	Metric	FY 2021
IF-EU-110a.1	Greenhouse Gas Emissions & Energy Resource Planning	(1) Gross global Scope 1 emissions (Metric Tons)	40,614,364
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)	45,630,413
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 57% reduction in mass carbon emissions since 2005 (system emissions include owned and purchased power). We have a path to achieve an approximate 80% reduction by 2035 and we aspire to achieve net-zero carbon emissions by 2050. For more information please visit <a href="http://tva.com/carbon">tva.com/carbon</a> .
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 9000 customers in North Carolina, which is the only state in our 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 <sub>x</sub> (Metric Tons)	15,210
IF-EU-120a.2	Air Quality	(2) SO <sub>x</sub> (Metric Tons)	25,226
IF-EU-120a.5	Air Quality	(5) Mercury (Hg) (Metric Tons)	0.02626
IF-EU-140a.1	Water Management	(1) Total water withdrawn (Thousand cubic meters)	14,702,614
IF-EU-140a.1	Water Management	(2) Total water consumed (Thousand cubic meters)	112,537
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	Water Management Discussion can be found in our <a href="#">Climate Adaptation Plan</a> and <a href="#">Sustainability Report</a> .



Code	Topic	Metric	FY 2021
IF-EU-150a.1	Coal Ash Management	(1) Amount of coal combustion residuals (CCR) generated (Metric Tons)	1,857,560 (tons)
IF-EU-150a.1	Coal Ash Management	(2) Percentage recycled	59%
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	<a href="#">CCR Compliance Information</a> <a href="#">CCR Fact Sheet</a>
IF-EU-240a.1	Energy Affordability	Average retail electric rate for residential customers	11.12 cents/kWh
IF-EU-240a.1	Energy Affordability	Average retail electric rate for commercial customers	10.74 cents/kWh
IF-EU-240a.1	Energy Affordability	Average retail electric rate for industrial customers	4.91 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	<a href="#">fy21-tva-annual-report9f6def97-db46-4981-ad0c-1b2d76724b44.pdf</a> <a href="#">Connected Communities (tva.com)</a> <a href="#">TVA, MLGW &amp; Partners Celebrate 500th Home Uplift Milestone</a> <a href="#">Uplifting Lives (tva.com)</a> <a href="#">TVA Agency Equity Action Plan (EO 13985) 2022 (azureedge.net)</a>
IF-EU-320a.1	Workforce Health & Safety	(1) Total recordable incident rate (TRIR)	0.24
IF-EU-320a.1	Workforce Health & Safety	(2) Fatality rate	0
IF-EU-420a.3	End-Use Efficiency & Demand	Customer electricity savings from efficiency measures, by market (MWh)	19,777
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 7 nuclear power units at 3 sites; all 7 units are in the Licensee Response Column of the NRC Action Matrix.



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<b>IF-EU-540a.2</b>	Nuclear Safety & Emergency Management	Description of efforts to manage nuclear safety and emergency preparedness	TVA's nuclear plants have multiple safety systems in place to keep our workforce and the communities we serve safe. Safety systems include physical barriers that protect against radiation release and layer upon layer of redundant and diverse back-up power systems to keep reactors sufficiently cooled—even in extreme or unlikely events. Our plants operate with oversight by the U.S. NRC, which has inspectors physically stationed at each site. After the event at Fukushima in Japan, the NRC required all nuclear plants to install additional backup safety equipment, known as FLEX, to protect plants from even more extreme events, including “stacked” events during which one disaster follows another. TVA also utilizes industry resources, like the national response centers in Memphis, Tennessee, and Phoenix, Arizona, which were opened in 2014 and can deliver additional safety equipment and resources to any U.S. nuclear power plant within 24 hours. TVA Nuclear regularly reviews nuclear successes and setbacks across the globe, and we use that knowledge to update our equipment, procedures and training to the highest standards.
<b>IF-EU-550a.1</b>	Grid Resiliency	Number of incidents of non-compliance with physical and/or cybersecurity standards or regulations	10