

Tennessee Valley Authority
FY 2021 OMB SCORECARD FOR FEDERAL SUSTAINABILITY

<u>GOAL ASSESSMENT</u>	<u>METRICS</u>	<u>PERFORMANCE</u>		<u>OTHER PROGRESS INDICATORS</u>			
		<u>RATING*</u>			<u>FY 2008</u>	<u>FY 2020</u>	<u>FY 2021</u>
GREENHOUSE GAS EMISSIONS FROM STANDARD OPERATIONS	Change in scope 1&2 emissions from FY 2008:	-58.4%	<u>Scope</u>	<u>Sector (MTCO2e)</u>			
	Change in scope 1&2 emissions from prior year:	-15.1%	1 & 2	Total	363,544	178,029	151,192
	Change in scope 1 facility energy emissions from FY 2008:	-83.5%	1	Facility	379	53	62
	Change in scope 2 facility energy emissions from FY 2008:	-58.9%	2	Facility	349,974	170,661	143,766
	Change in scope 1 fleet energy emissions from FY 2008:	-57.8%	1	Fleet	12,754	6,234	5,376
	Change in scope 1 other emissions from FY 2008:	355.3%	1	Other	436	1,081	1,987
			1	Direct GHG intensity of all facilities (kg/GSF):			0.00
FACILITY ENERGY EFFICIENCY	Change in energy intensity (Btu/GSF) compared to FY 2003:	-74.8%	<u>Category</u>	<u>FY 2003</u>	<u>FY 2020</u>	<u>FY 2021</u>	
	Change in energy intensity (Btu/GSF) from prior year:	-22.3%	Energy intensity (Btu/GSF):	65,536	21,254	16,525	
			Energy use (Net billion Btu):	642	164	125	
			Gross Square Feet (thousand):	9,795	7,726	7,573	
EFFICIENCY MEASURES/ INVESTMENT	Covered facilities evaluated for efficiency opportunities (in terms of covered facility energy use):	100.0%	Implementation cost of ECMs identified within last 4 years (\$M):			\$14.8	
			CTS-reported investment in covered facilities in FY 2021 (\$M):			\$0.2	
	Performance contracting investment percentage in FY 2021	0.0%	Total direct investment in FY 2021 (\$M):			\$1.8	
	Performance contracting investment percentage last 4 years	0.0%	ESPC and UESC investment in FY 2021 (\$M):			\$0.0	
RENEWABLE ENERGY USE	Renewable electricity used (as a percentage of total electricity use):	20.2%	Renewable electricity + non-electric renewable energy used (as a percentage of total electricity use):			20.3%	
WATER EFFICIENCY	Change in potable water intensity compared to FY 2007:	-40.6%	<u>Category</u>	<u>FY 2007</u>	<u>FY 2020</u>	<u>FY 2021</u>	
	Change in potable water intensity from prior year:	14.2%	Facility Water Intensity (Gal per GSF)	26.5	13.8	15.7	
HIGH PERFORMANCE SUSTAINABLE BUILDINGS	Percent of eligible buildings meeting sustainability criteria:	14.1%	Buildings meeting sustainability criteria:			28	
	Percentage point difference from prior year:	0.0	Total count of eligible buildings:			199	
	Percent of GSF (eligible) meeting sustainability criteria:	22.3%	GSF meeting sustainability criteria (thousand):			1,712	
	Percentage point difference from prior year:	0.0	Total eligible GSF (thousand):			7,680	
TRANSPORTATION/ FLEET MANAGEMENT	Change in petroleum fuel use in covered fleet compared to FY 2005:	-49.2%	Alternative fuel use as a percentage of total covered fleet fuel use:			17.1%	
			Covered AFVs (w/bonus credits) as a percent of acquisitions:			121.4%	
	Change in petroleum fuel use in covered fleet compared to prior year:	-15.0%	Light-duty zero-emission vehicles as a percent of acquisitions:			15.63%	
			Total number of installed EV charging ports to date:			106	
SUSTAINABLE ACQUISITION	Percentage point difference of sustainable contract actions from prior year:	4.3	Number of applicable contract actions w/ sustainable clauses, FY21:			6,399	
			Number of applicable contract actions w/ sustainable clauses, FY20:			5,596	
	Percentage point difference of value of contracts with sustainable requirements from prior year:	7.4	Value of applicable contract actions w/ sustainable clauses, FY21:			\$29.5M	
			Value of applicable contract actions w/ sustainable clauses, FY20:			\$12.7M	

*Due to the COVID-19 pandemic, the data as reported may appear anomalous and represent exogenous factors beyond the agency's control. The impact on agency performance has not been fully evaluated at this time.

Sources: Agency submitted data from Annual Energy Data Report, EISA 432 Compliance Tracking System, Federal Real Property Profile, Federal Automotive Statistical Tool, SAM.GOV

Btu = British thermal units
 GSF = Gross square foot (or feet)
 ESPC = Energy Savings Performance Contracts
 UESC = Utility Energy Savings Contracts

ECM = efficiency/conservation measure
 AFV = alternative fuel vehicle
 GHG = greenhouse gas
 na = not available

Greenhouse Gas Emissions: Agencies' GHG emission reductions compared to FY 2008 base year by scope and end-use sector will be tracked and reported as an indicator on the Scorecard along with direct GHG emissions intensity from energy use in all facilities.

Facility Energy Efficiency: Agencies are assessed on meeting or exceeding the statutory goal of a 30% reduction in Btu/GSF from a 2003 baseline and demonstrating a reduction from the prior year.

<i>Agency achieved $\geq 30\%$ reduction compared to 2003 AND achieved a reduction in energy intensity from the prior year.</i>	<i>Agency achieved $\geq 30\%$ reduction compared to 2003 OR achieved a reduction in energy intensity from the prior year.</i>	<i>Agency did not achieve a 30% reduction in energy intensity compared to 2003 AND did not achieve a reduction in energy intensity from the prior year.</i>
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Identification of Efficiency Measures/Investment: Agencies are assessed on covered facility evaluations. OMB will also track percentage of efficiency investment executed through performance contracts, potential investment in identified ECMs and reported project investment in covered facilities.

<i>$\geq 90\%$ of facility evaluations completed/updated within last 4 years AND agency awarded performance contracts in the fiscal year.</i>	<i>$\geq 75\%$ facility evaluations completed/updated within last 4 years OR agency awarded performance contracts in the fiscal year.</i>	<i>$< 75\%$ of facility evaluations completed/updated within last 4 years & agency did not award any performance contracts in the fiscal year.</i>
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Renewable Energy: Agencies are assessed on meeting or exceeding 7.5% renewable electricity use annually. OMB will also track non-electric RE use.

<i>Renewable electricity comprised $\geq 7.5\%$ of total electricity use.</i>	<i>Renewable electricity combined with non-electric renewable energy sources (thermal + mechanical) comprised $\geq 7.5\%$ of total electricity use.</i>	<i>Renewable electricity combined with non-electric renewable energy sources (thermal + mechanical) comprised $< 7.5\%$ of total electricity use.</i>
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Water Efficiency: Agencies are assessed on continued reductions in potable water use intensity and a 20% reduction from its 2007 baseline.

<i>Agency achieved $\geq 20\%$ reduction in potable water use intensity compared to 2007 AND reduced its potable water use intensity from the prior year.</i>	<i>Agency achieved $\geq 20\%$ reduction compared to 2007 OR achieved a reduction in potable water intensity from the prior year.</i>	<i>Agency did not achieve a 20% reduction compared to 2007 AND did not reduce potable water use intensity from the prior year.</i>
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High-Performance Sustainable Buildings: Agencies are assessed on the number and square footage of owned federal buildings that are sustainable buildings and are tracked in the Federal Real Property Profile (FRPP).

<i>At least 15% of agency owned buildings or GSF meet sustainable building criteria and the agency increased percentage of sustainable buildings or GSF from the prior year.</i>	<i>At least 15% of agency owned buildings or GSF meet sustainable building criteria OR the agency increased percentage of sustainable buildings or GSF from the prior year.</i>	<i>Less than 15% of agency's inventory meets sustainable building criteria AND the agency decreased percentage of sustainable buildings or GSF from the prior year.</i>
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Fleet Management: Agencies are assessed on meeting or exceeding a 20% reduction in petroleum use compared to 2005 and demonstrating a reduction from the prior year. OMB will also track alternative fuel use percentage, fleet acquisitions, and installed EV charging ports.

<i>Agency achieved $\geq 20\%$ reduction in petroleum use compared to 2005 AND achieved a reduction in petroleum use from prior year.</i>	<i>Agency achieved $\geq 20\%$ reduction in petroleum use compared to 2005 OR achieved a reduction in petroleum use from prior year.</i>	<i>Agency did not achieve a 20% reduction in petroleum use compared to 2005 AND did not achieve a reduction in petroleum use from prior year.</i>
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Sustainable Acquisition: Agencies are assessed on the change from prior year performance of the percentage of contract actions and dollar value of sustainable acquisitions as reported in the FPDS, which include the mandatory clauses for the purchase of biobased, energy-efficient, recycled content and other sustainable attributes.

<i>Agency increased percentage of sustainable acquisitions of total actions (both number of actions & dollar value) from prior year percentage levels.</i>	<i>Agency increased percentage of sustainable acquisitions of total actions (either number of actions or dollar value) from prior year percentage levels.</i>	<i>Agency's percentage of sustainable acquisitions from total actions (number of actions & dollar value) remained the same or decreased from prior year.</i>
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