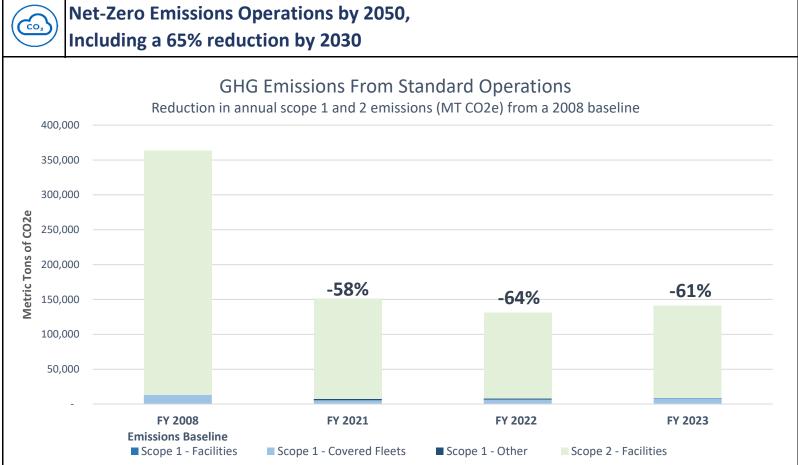
FY 2023 Sustainability Scorecard



For abbreviations and definitions—See OMB Scorecard Glossary

#### **Agency Progress Indicator** Agency progress as compared to all other Scorecard Agencies overall progress in FY23 towards the 2030 GHG reduction goal. Middle **Top 25% Bottom 25% Annual Progress from Prior Year** +1,186 +9,534 Scope 1 Emissions Scope 2 Emissions +15% +8% **FY 2023 Standard Operations Emissions Scope and Category** % of Total MTCO2e Scope 1 -8,206 6% **Covered Fleets** Scope 1 -1% 840 Other Scope 1 -21 0% **Facilities** Scope 2 -132,374 94% **Facilities**

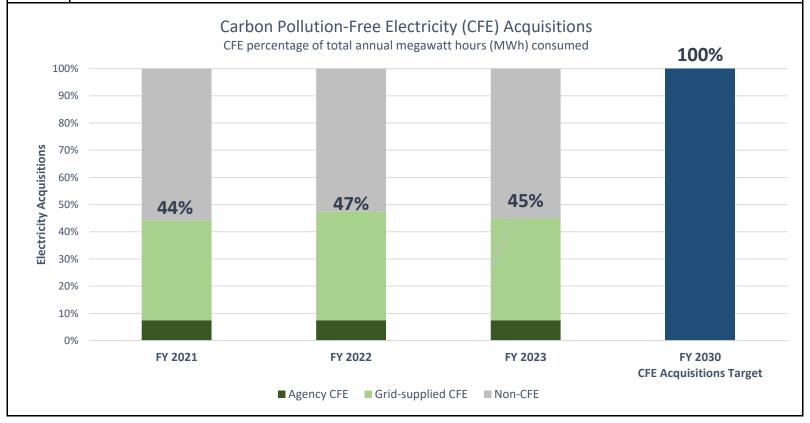
**Total** 

141,441

FY 2023 Sustainability Scorecard



# 100% Carbon Pollution-Free Electricity on a Net Annual Basis by 2030



#### **Agency Progress Indicator**

Agency progress as compared to all other Scorecard Agencies overall progress in FY23 towards the 2030 CFE acquisition goal.



Bottom 25% Middle Top 25%

#### **Annual Progress from Prior Year**

-14,155

MWh of CFE Acquisition

-8%

### **FY 2023 Agency Electricity Profile**

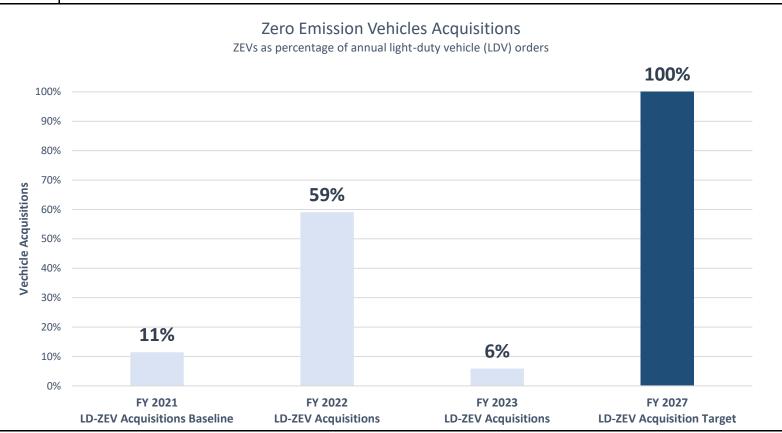
Category	<u>MWh</u>	% of Total
Agency CFE	26,500	8%
Grid-Supplied CFE	132,510	38%
Non-CFE	194,321	55%

Total 353,331

# Tennessee Valley Authority FY 2023 Sustainability Scorecard



### 100% Zero-Emission Vehicle Acquisitions by 2035

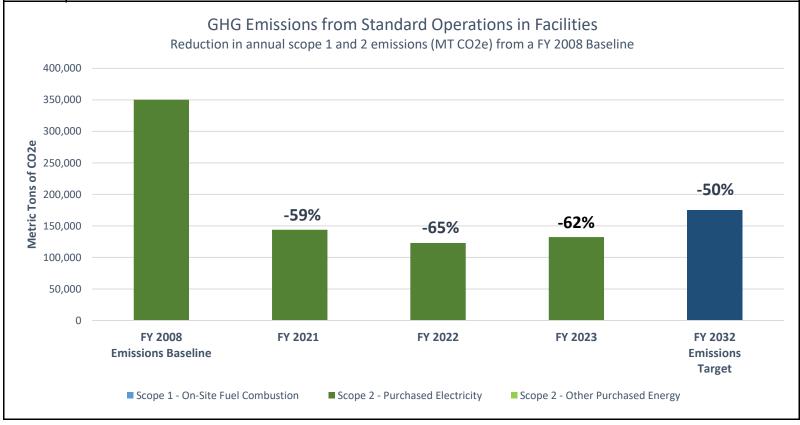


Annual Progress from Prior Year			
-87		+0	
LD-ZEV Acquisition	าร	Charging Ports	
-99%		+0%	
Covered Fleet Inventory			
Category Light Duty ZEV	<b>FY 22</b> 58	<u>FY 23</u> 112	
Light Duty ICE	1,486	1,338	
Total	1,544	1,450	
Charging Port Inventory			
<u>Category</u> AC Level 1	<b>FY 22</b> 23	<u>FY 23</u> 23	
AC Level 2	108	108	
DC Fast Charging	0	0	
Total	131	131	

FY 2023 Sustainability Scorecard



# Net-Zero Buildings by 2045, including a 50% reduction by 2032



#### **Agency Progress Indicator**

Agency progress as compared to all other Scorecard Agencies overall progress in FY23 towards the 2032 GHG reduction goal.



Bottom 25%	Middle	Top 25%
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### **Annual Progress from Prior Year**

-41 +9,534

Scope 1 Emissions Scope 2 Emissions

-67% +8%

### **FY 2023 Buildings Standard Emissions**

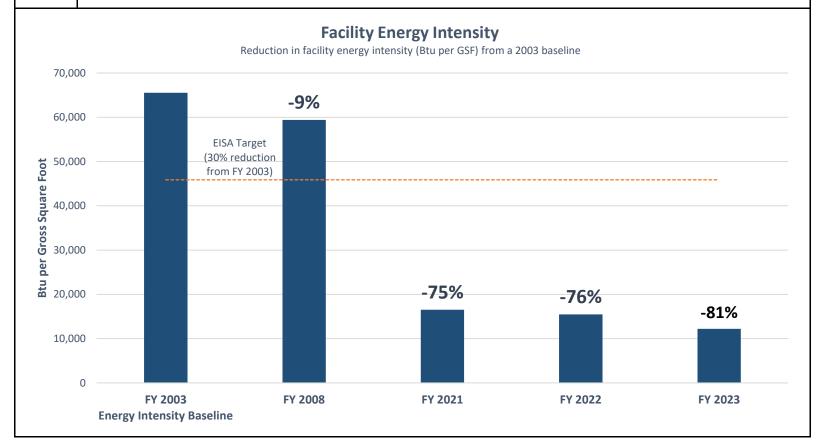
GHG	MTCO2e	% of Total
Scope 1 - On-Site Fuel Combustion	21	0%
Scope 2 - Purchased Electricity	132,374	100%
Scope 2 - Other Purchased Energy	0	0%

Total 132,395

# Tennessee Valley Authority FY 2023 Sustainability Scorecard

# 4

### Federal Facility Energy Use



For abbreviations and definitions—See OMB Scorecard Glossary

### **Agency Progress Indicator**

Agency status meeting or exceeding the statutory goal of a 30% reduction in Btu/GSF from a 2003 Baseline



Not Met Exceeded

### **Annual Progress from Prior Year**

-3,256

Btu per GSF

-21.0%

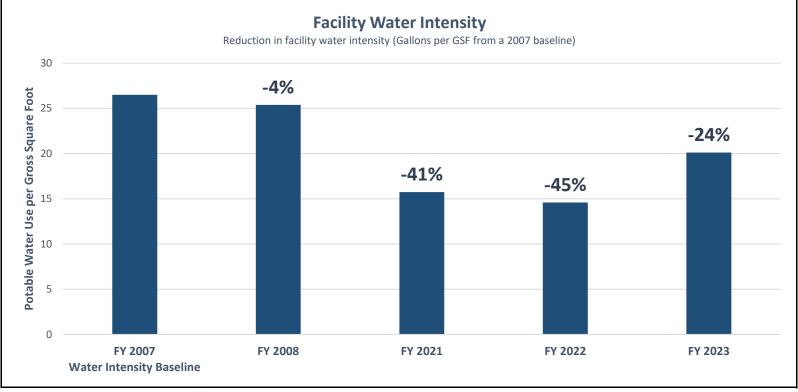
# **Energy Intensity Details**

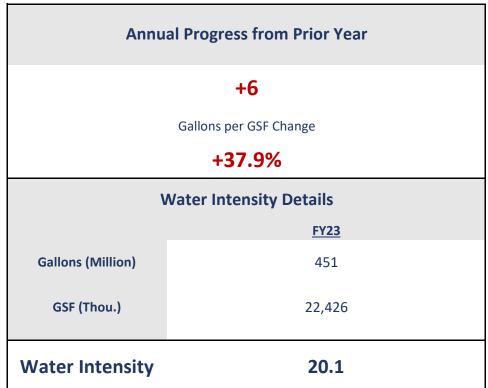
	•	
End Use	Site-Delivered BBtu	% of Total
Electricity	359	389%
On-Site Fuel Combustion	0	0%
Purchased Thermal	1	2%
On-Site Renewables and Other Adjustments	-269	-291%
<b>End-Use Sector Total</b>	92	
Gross Square Feet (Thou.)	7,54	2
<b>Energy Intensity</b>	12,2	20

FY 2023 Sustainability Scorecard



### **Federal Facility Water Use**

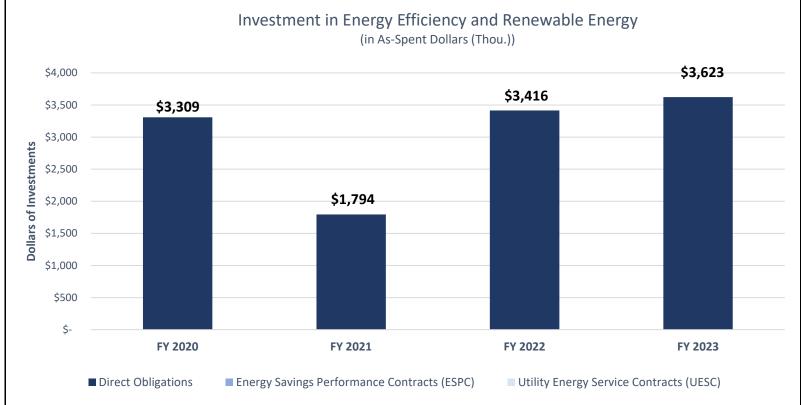




FY 2023 Sustainability Scorecard



### **Federal Facility Efficiency Investments**



For abbreviations and definitions—See OMB Scorecard Glossary

### **Agency Progress Indicator** Agency progress on completion of facility evaluations as compared to all other Scorecard Agencies in FY23 **Bottom 25%** Middle **Top 25% Annual Progress** Percent of total investments completed by 0% ESPC or UESCs over the last 4 years Percent of covered facilities evaluated for efficiency 100% opportunities **Agency Facility Investments in ECMs** % of investment **Type of Investment** Thou. \$ **Direct Obligations** \$3,623 100% \$0 **ESPC** 0% \$0 0% **UESC** Total (M\$) \$3.6

# **OMB Scorecard Glossary**

Abbreviations		
Btu = British thermal units	EVSE = electric vehicle supply equipment	LDV = Light Duty Vehicle
CFE = Carbon Pollution Free Electricity	(e.g. Charging Ports)	MTCO2e = Metric Tons of Carbon Dioxide
<b>ECM</b> = efficiency/conservation measure	GHG = greenhouse gas	Equivalent
ESPC = Energy Savings Performance	<b>GSF</b> = Gross square foot (or feet)	N/A = data not available
Contracts	ICE = Internal Combustion Engine	<b>UESC</b> = Utility Energy Service Contracts
	<b>KWh</b> = Kilowatt hours	<b>ZEV</b> = Zero Emissions Vehicles

Progress Indicators		
Bottom 25%	Middle	Top 25%
Lower Quartile or 25th percentile relative to other Scorecard Agencies	Middle Quartiles or >25 <sup>th</sup> , but <75th, percentile relative to other Scorecard Agencies	Upper Quartile or 75th percentile relative to other Scorecard Agencies

Terminology					
ТОРІС	TOPIC DATA SOURCE and TERMINOLOGY DEFINITIONS				
	Source: Agency greenhouse gas emission are calculated from the agency submitted Annual Energy Management Data Reports. Details and background data can be found on FEMP's Comprehensive Annual Energy Data and Sustainability Performance data site.  • Standard Operations: Any emissions from operations not designated, under section 602 of E.O. 14057, as exempted and reported as non-standard operations. Non-Standard Operations are vehicles, vessels, aircraft and other equipment used by Federal Government agencies in combat support, combat service support, tactical or relief operations, training for such operations, law enforcement, emergency response, or spaceflight (including associated ground-support equipment). Non-Standard operations also includes generation of				
NET-ZERO EMISSIONS OPERATIONS	<ul> <li>Scope 1 (Covered Fleets): Emissions from standard operations from the agency's fleet of passenger fleet vehicles.</li> <li>Scope 1 (Other): Emissions from fluorinated gases and other fugitive emissions, on-site wastewater treatment, on-site landfills and municipal solid waste facilities, manufacturing and industrial processes, and from non-passenger fleet vehicles, aircraft, ships, and mobility equipment reported as standard operations.</li> </ul>				
	<ul> <li>Scope 1 (Facilities): Emission from standard operations of on-site fuel consumption at federal facilities, including natural gas, fuel oil, LPG/propane, coal and any other fossil fuel.</li> <li>Scope 2 (Facilities): Emissions from standard operations of any purchased electricity, purchased biomass energy, purchased steam and hot water, purchased chilled water, purchased energy from combined heat/power plants, and renewable energy purchases.</li> <li>See <u>E.O. 14057 Implementing Instructions</u> for Federal Agencies for more details on definitions.</li> </ul>				
CARBON POLLUTION-FREE ELECTRICITY	Source: Agency electric energy consumption is submitted to DOE-FEMP through Annual Energy Management Data Report. Details and background data can be found on FEMP's Comprehensive Annual Energy Data and Sustainability Performance data site.  • Agency CFE: Includes electricity generated at a Federal facility, electricity purchased from a qualifying CFE generation source with the associated energy attribute certificates (EACs) and Purchased or unbundled EAC.  • Grid-supplied CFE: CFE delivered as part of default electricity service or the electricity grid mix from a utility or electric service provider.  • Non-CFE: Electricity from non-carbon pollution free electricity sources.  See E.O. 14057 Implementing Instructions for Federal Agencies for more details on definitions.				

# **OMB Scorecard Glossary**

Terminology and Progress Indicators		
TOPIC	DATA SOURCE and TERMINOLOGY DEFINITIONS	
ZERO-EMISSION VEHICLE ACQUISITIONS	Source: Agency fleet inventory and EVSE installation data was reported in the Federal Automotive Statistical Tool (FAST). Acquisition (vehicle order) data was provided by GSA.  • Light Duty: A vehicle weighing 8,500 pounds gross vehicle weight rating or less, certified for use on all public roads and highways. (Sec. VII of M-22-06)  • Vehicle Acquisition: The placement of an order for a vehicle, recognizing fulfillment and timing of delivery is not within an agency's control.  • Vehicle Inventory: Vehicles in agency operation as of September 30 of the fiscal year as reported in FAST.  • Charging Port: Electric vehicle supply equipment connector in agency operation as of September 30 of the fiscal year as reported in FAST.  A charging station may have multiple ports.  See E.O. 14057 Implementing Instructions for Federal Agencies for more details on definitions.	
NET-ZERO EMISSIONS BUILDINGS	Source: Agency facility greenhouse gas emission are calculated from the agency submitted Annual Energy Management Data Reports. Details and background data can be found on FEMP's Comprehensive Annual Energy Data and Sustainability Performance data site.  • Scope 2 - Other Purchased Energy: Emissions from standard operations from any purchased biomass energy, purchased steam and hot water, purchased chilled water, purchased energy from combined heat/power plants, and renewable energy purchases.  See E.O. 14057 Implementing Instructions for Federal Agencies for more details on definitions.	
FACILITY ENERGY EFFICIENCY	Source: Agency facility energy use is submitted to DOE-FEMP through Annual Energy and Water Use Reports. Details and background data can be found on FEMP's Comprehensive Annual Energy Data and Sustainability Performance data site.  • Purchased Thermal Energy: Include energy from purchased steam and hot water and purchased chilled water.  • Purchased Renewables and Adjustments: Includes renewable energy purchases but not on-site RE, subtracts source-energy-saving project credit, weather normalization credit, and project savings in Excluded buildings credit).	
FACILITY WATER EFFICIENCY FACILITY EFFICIENCY MEASURES/ INVESTMENT	Source: Agency facility water use is submitted to DOE-FEMP through Annual Energy Data Reports. Details and background data can be found on FEMP's Comprehensive Annual Energy Data and Sustainability Performance data site.  Source: Agency facility efficiency investments are submitted to DOE-FEMP through Annual Energy Data Reports. Details and background data can be found on FEMP's Comprehensive Annual Energy Data and Sustainability Performance data site.	