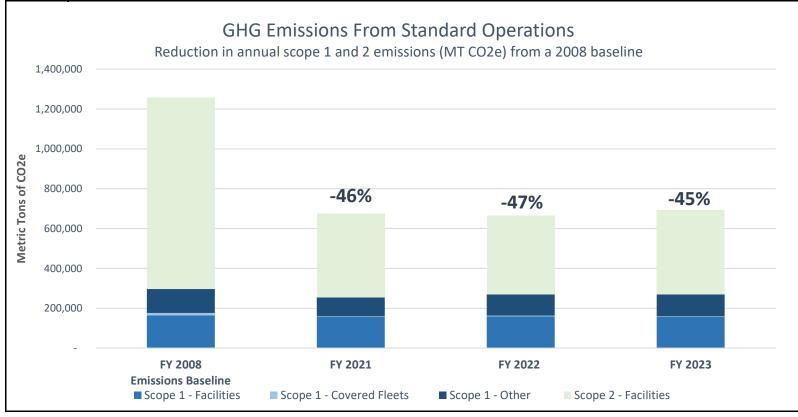
FY 2023 Sustainability Scorecard



## Net-Zero Emissions Operations by 2050, Including a 65% reduction by 2030

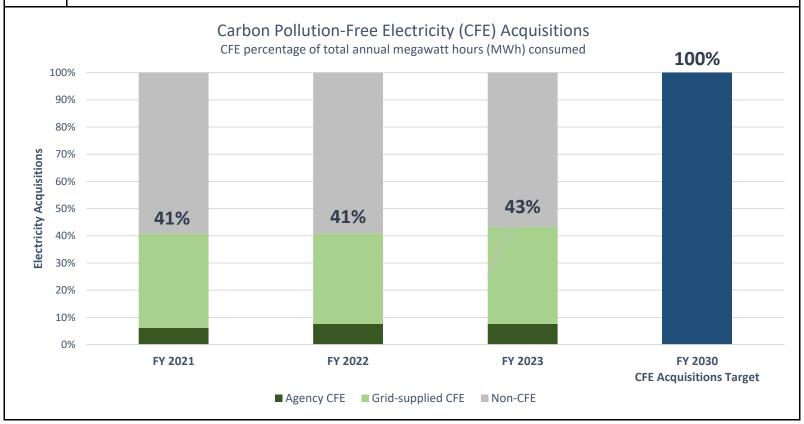


**Annual Progress from Prior Year** -1,204 +28,301 Scope 1 Emissions Scope 2 Emissions -0% +7% **FY 2023 Standard Operations Emissions Scope and Category** % of Total MTCO2e Scope 1 -3,436 0% **Covered Fleets** Scope 1 -109,419 16% Other Scope 1 -155,757 23% **Facilities** Scope 2 -423,153 61% **Facilities** 691,764 **Total** 

FY 2023 Sustainability Scorecard



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

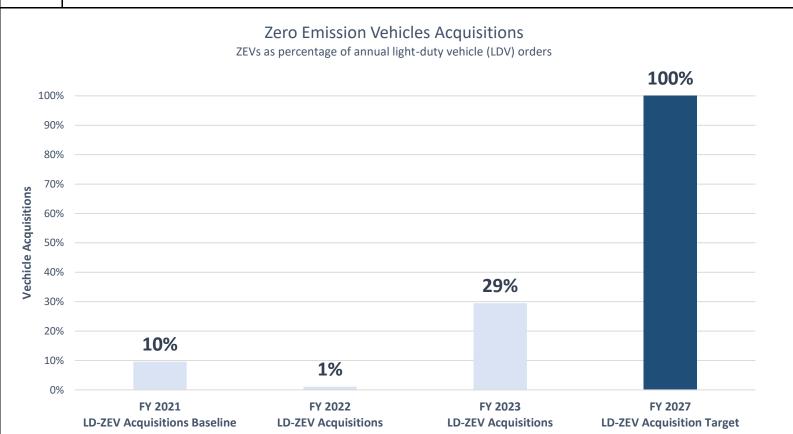




# National Aeronautics and Space Administration FY 2023 Sustainability Scorecard



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

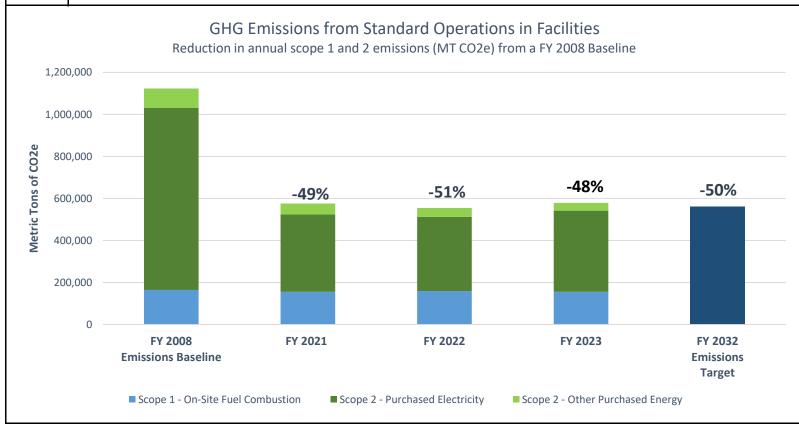


Annu	al Progress from Pr	ior Year
+22		-42
LD-ZEV Acquisition	ons	Charging Ports
+2,200%		-10%
Covered Fleet Inventory		
Category Light Duty ZEV	<b>FY 22</b> 68	<u>FY 23</u> 90
Light Duty ICE	1,445	1,219
Total	1,513	1,309
Charging Port Inventory		
Category AC Level 1	<b>FY 22</b> 285	<u>FY 23</u> 285
AC Level 2	154	112
DC Fast Charging	2	2
Total	441	399

FY 2023 Sustainability Scorecard



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

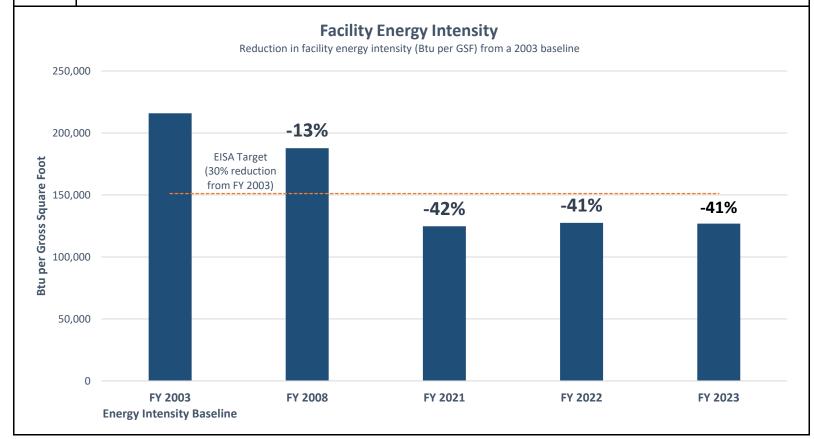


Annual Progress from Prior Year		
-3,608	+28,301	
Scope 1 Emissio	ons Scope 2 Emissions	
-2%	+7%	
FY 2023 Buildings Standard Emissions		
<u>GHG</u>	MTCO2e % of Total	
Scope 1 - On-Site Fuel Combustion	155,757	27%
Scope 2 - Purchased Electricity	385,865	67%
Scope 2 - Other Purchased Energy	37,288	6%
Total	578,910	

## National Aeronautics and Space Administration 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**

-608

Btu per GSF

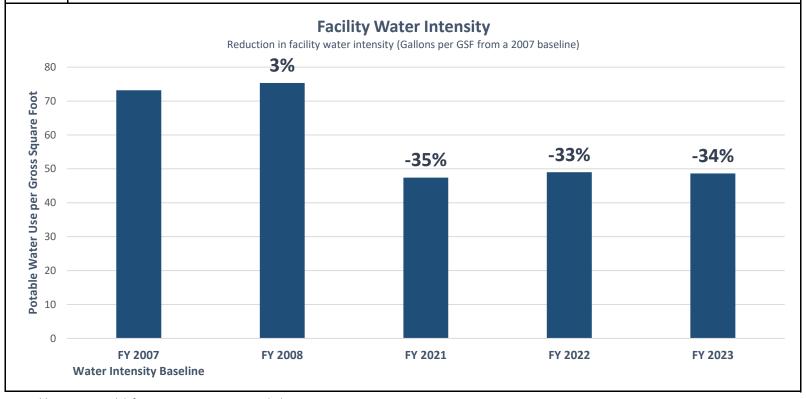
-0.5%

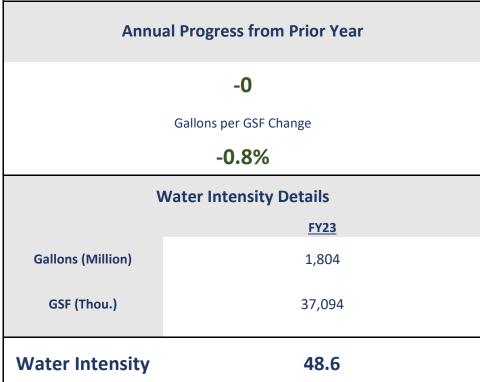
Energy Intensity Details		
End Use	Site-Delivered BBtu	% of Total
Electricity	2,384	60%
On-Site Fuel Combustion	2,284	58%
<b>Purchased Thermal</b>	124	3%
On-Site Renewables and Other Adjustments	-822	-21%
<b>End-Use Sector Total</b>	3,970	
<b>Gross Square Feet (Thou.)</b>	31,2	93
<b>Energy Intensity</b>	126,8	869

FY 2023 Sustainability Scorecard



#### **Federal Facility Water Use**

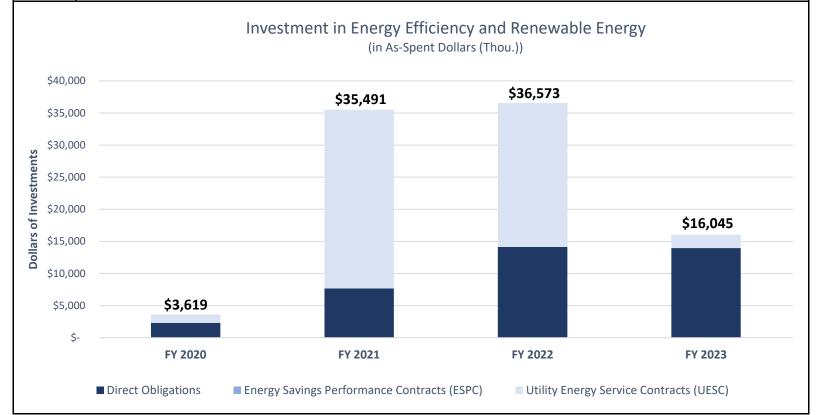




FY 2023 Sustainability Scorecard



#### **Federal Facility Efficiency Investments**



Agency Progress Indicator

Agency progress on completion of facility evaluations as compared to all other Scorecard Agencies in FY23

Annual Progress

Percent of total investments completed by ESPC or UESCs over the last 4 years

58%

Percent of covered facilities evaluated for efficiency opportunities 100%

Agency Facility Investments in ECMs

Type of Investment

Direct Obligations

\$13,957

ESPC

\$0

0%

UESC

\$2,088

13%

Total (M\$) \$16.0

### **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	
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 electric power produced and sold commercially to other parties.
NET-ZERO EMISSIONS	• Scope 1 (Covered Fleets): Emissions from standard operations from the agency's fleet of passenger fleet vehicles.
OPERATIONS	• 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.
	• 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.
	• 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.
	See <u>E.O. 14057 Implementing Instructions</u> for Federal Agencies for more details on definitions.
	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.
CARBON POLLUTION-FREE	• 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.
ELECTRICITY	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.