



NASA Energy and Water Management Program

Small Changes. Big Impact.

NASA's **vision** for energy and water management is simple: Accomplish our mission using the minimum amount of energy and water required.

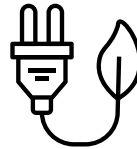
Our **13 Energy and Water Managers** and their **teams** are leading the Agency in fulfilling that vision. NASA's remarkable success depends on help from **thousands of you** within our workforce—equipment operators, maintenance staff, engineers, procurement specialists, not to mention every single person who takes the time to turn off the lights when no one's home.

In FY23, our utility bill was

\$140M

That's

\$16K per hour



Energy Efficiency

From FY95 through FY23

30.2%

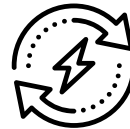
Total Energy Consumption Reduction

\$1.02B

Total Energy Cost Avoidance Since FY95 (in 2023 dollars)

\$52M

Average Annual Cost Avoidance Over the Past 10 Years (in 2023 dollars)



Renewable Energy

14,973 MWH

Renewable Electricity Generated On-Site in FY23

That's enough electricity to power about 1,400 single-family homes for one year, or almost 34 times the annual generation of the International Space Station solar arrays



Water Efficiency

From FY07 through FY23

37.1%

Total Water Consumption Reduction

Over 1 billion gallons saved, enough water to fill more than 1,600 Olympic-sized swimming pools, or provide deluge water for 2,300 SLS launches from KSC Launch Pad 39B

SUSTAINABLE



ENERGY WATER BUILDINGS WASTE TRANSPORTATION PROCUREMENT GHG

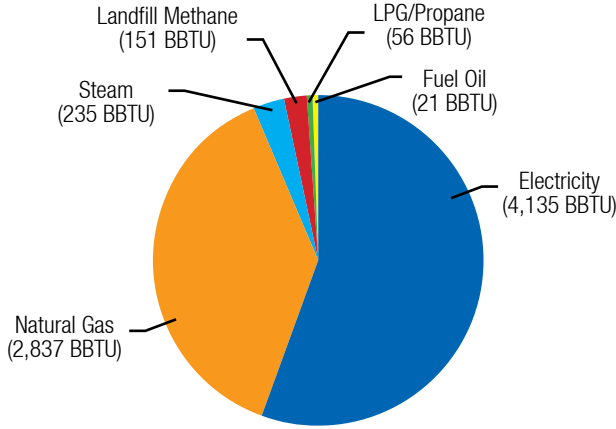


NASA's FY23 Utility Bill Breakdown

Energy Consumption

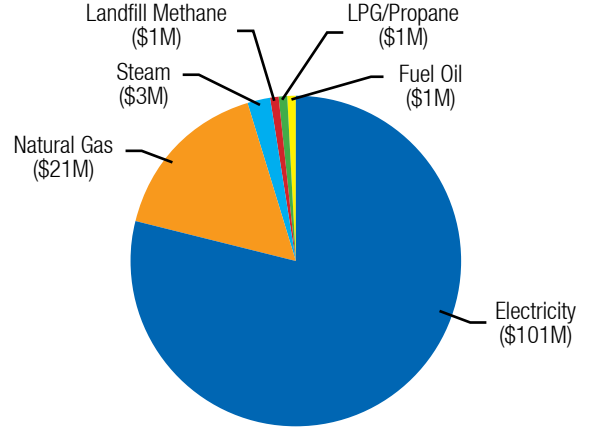
7,434

Billion BTU



Energy Cost

\$127M



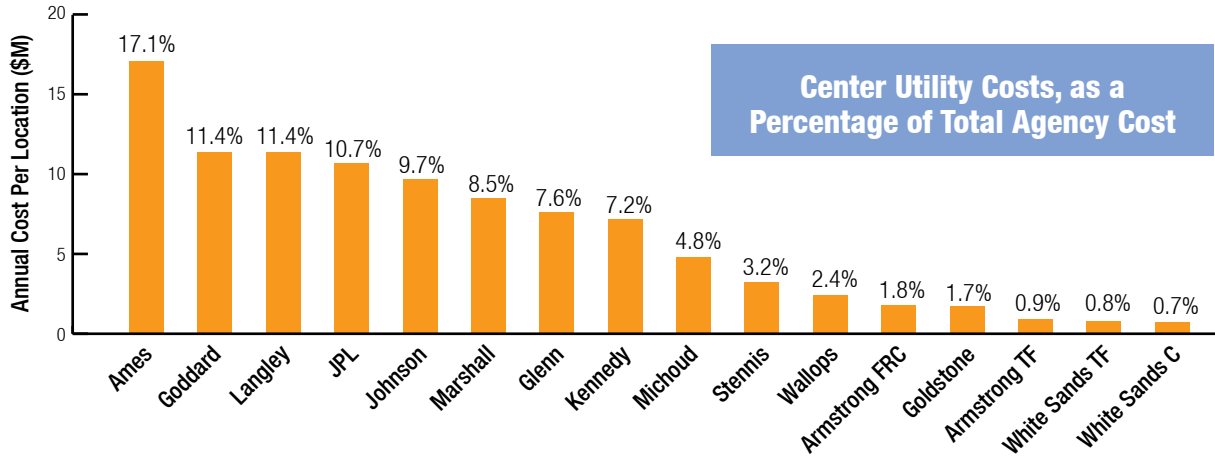
Water Consumption

1,804

Million Gallons

Water Cost

\$13M



Center Utility Costs, as a Percentage of Total Agency Cost

ENERGY & WATER MANAGEMENT FAST FACTS

Footprint

- Over 37 million square feet in more than 2,200 buildings
- 54 high performance sustainable buildings

Comparison to Other Civilian Agencies

- 8th largest for energy use
- 6th largest for water use

NASA Procedural Requirement (NPR) 8570.1, NASA Energy and Water Management Program, provides the framework for our Energy and Water Management Programs.

Where We Fit in NASA's Universe...



Discover

Expand human knowledge through new scientific discoveries.



Explore

Extend human presence to the Moon and on towards Mars for sustainable long-term exploration, development, and utilization.



Innovate

Catalyze economic growth and drive innovation to address national challenges.



Advance

Enhance capabilities and operations to catalyze current and future mission success.