



# 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 FY22, our utility bill was*

**\$132M**

*That's*

**\$15K per hour**



## Energy Efficiency

*From FY95 through FY22*

**29.5%**

Total Energy Consumption Reduction

**\$965M**

Total Energy Cost Avoidance Since FY95 (in 2022 dollars)

**\$52M**

Average Annual Cost Avoidance Over the Past 10 Years (in 2022 dollars)



## Renewable Energy

**16,649 MWH**

Renewable Electricity Generated On-Site in FY22

That's enough electricity to power more than 1,500 single-family homes for one year, or almost 37 times the annual generation of the International Space Station solar arrays



## Water Efficiency

*From FY07 through FY22*

**36.4%**

Total Water Consumption Reduction

Over 1 billion gallons saved, enough water to fill more than 1,500 Olympic-sized swimming pools, or provide deluge water for 2,300 SLS launches from KSC Launch Pad 39B

SUSTAINABLE



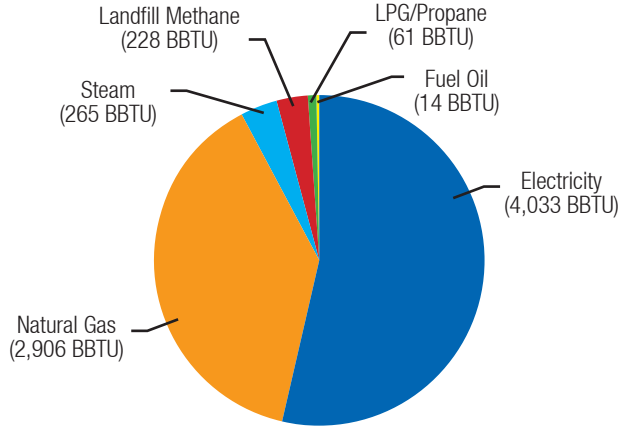


# NASA's FY22 Utility Bill Breakdown

## Energy Consumption

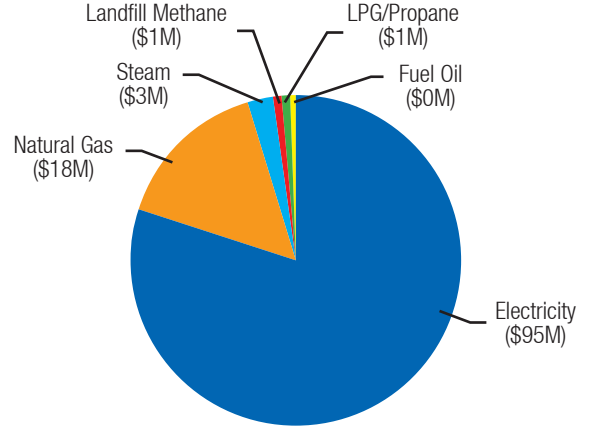
# 7,506

Billion BTU



## Energy Cost

# \$119M



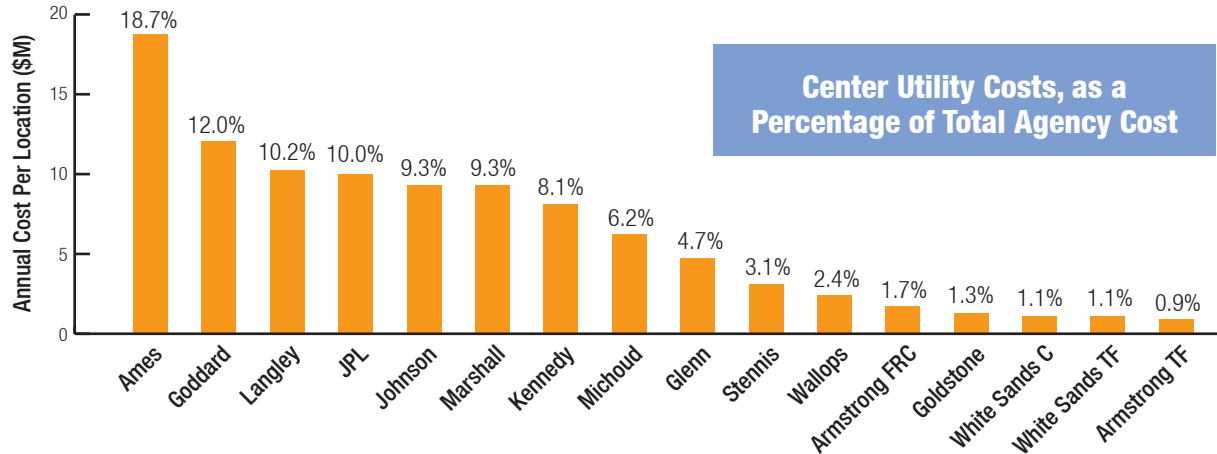
## Water Consumption

# 1,823

Million Gallons

## Water Cost

# \$12M



Center Utility Costs, as a Percentage of Total Agency Cost

## ENERGY & WATER MANAGEMENT FAST FACTS

### Footprint

- Over 38 million square feet in more than 2,400 buildings
- 52 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.