



## Project Highlight

# NASA Goddard Space Flight Center, Wallops Flight Facility, VA

AMERESCO 

NASA Goddard Space Flight Center Reduced Energy Consumption by 35%

### Technology Type:

Energy Efficiency | Energy Savings

Performance Contract | Geothermal Heat Pump

### Facility Size

930,062 square feet

### Capitol Project Investment

\$26,800,000

### Reduced Energy Consumption

35%

### Annual Energy Savings

\$1,600,000



### Summary

Ameresco was awarded an Energy Savings Performance Contract (ESPC) task order to design and implement multiple energy conservation measures (ECMs) for NASA at the Wallops Flight Facility on Wallops Island, Virginia.



## Solution

ECMs implemented at the flight facility include improvement of lighting systems, boiler decentralization, and upgrades to the building automated system (BAS)/direct digital control (DDC) system. Other improvements include the installation of an air-cooled chiller and geothermal heat pumps.

- Installed 500 tons of geothermal heat pumps
- Refitted 340 lighting fixtures with efficient maintenance free technology
- 300-ton and 75-ton air-cooled chillers installed

“**The energy savings performance contract with Ameresco brought major improvements to Wallops Flight Facility...This effort will single-handedly satisfy Wallops’ federal energy reduction requirements...**”

Phillip Smith,  
*Energy Manager,  
Wallops Flight Facility*



## Benefits

In collaboration with NASA, Ameresco implemented the energy savings project around critical mission requirements (shuttle and rocket launches), providing temporary heating and cooling to minimize disruptions to critical facilities during construction. The project produced comprehensive site-wide energy efficiency upgrades.

- New equipment specialized for corrosive environment
- Reduced energy consumption by 35%
- Saves the equivalent of 9,738 tons of CO<sub>2</sub> per year
- Renewable energy resource provided by geothermal pumps
- Reduced equipment maintenance requirements

Ameresco's team of energy experts can assist you in identifying the solution that fits your needs.

For more information about Ameresco and our full-range of energy efficiency and renewable energy solutions, please call **1-866-AMERESCO** or visit **ameresco.com**.

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