

The United States Air Force Installation Energy Program is committed to developing and deploying policies and guidance to ensure the Air Force has energy secure power projection platforms through which to meet its missions.

FY 2019 Air Force Energy Facts

\$6.5B spent on energy

6.5% Air Force electricity from renewable sources

269 MW of on-base distributed energy capacity

13.9% increase in renewable usage since FY 2018

2.7% reduction in energy intensity since FY 2015

21.6% reduction in potable water intensity since FY 2007

Installation Energy Overview

With the increased prevalence of large-scale natural disasters and the recognized threat of physical and cyber-attacks on our utilities, coordinating energy and water resilience has never been more important. By aligning and focusing resources, the Air Force Installation Energy Program is ensuring mission-critical infrastructure assets receive the necessary secure, reliable power when and where they need it.

The Air Force enhances mission assurance through energy assurance, and overcomes the challenges posed by vulnerabilities to its energy security by pursuing the three goals of our Energy Program:



1 Improve Resilience
Ensuring we have the ability to continue operations, recover from energy interruptions, and sustain the mission



2 Optimize Demand
Integrating energy efficient technologies and fuel optimization measures to stabilize and reduce energy demand



3 Assure Supply
Diversifying the types of energy used and securing the quantities necessary to perform missions



Current Installation Energy Efforts

Air Force energy solutions and projects are transforming the ways in which the Air Force uses energy at installations. To ensure a reliable, ready, and resilient energy supply, the Air Force Installation Energy Program integrates energy considerations across the enterprise to:

1. Provide base resilience to complete our mission
2. Secure energy supply chain to meet changing needs
3. Support civil authorities

Driving Towards Resilience

The Air Force's energy resilience is driven by an enterprise approach focused on mission. The Air Force utilizes five key resilience attributes to prioritize energy projects and ensure targeted enabling system investments are effective in supporting mission needs. By making the best use of its investments, the Air Force achieves an edge towards ensuring operational supremacy.



The Air Force looks first-and-foremost at energy projects designed to improve mission resilience, while recognizing cost-effectiveness and cleaner energy as valuable subcomponents.

The 5Rs of Resilience

Robustness

Can the energy and water systems withstand a variety of scenarios?

Redundancy

Are there multiple alternative systems and sources to avoid single points of failure?

Resourcefulness

Is energy efficiently managed and delivered?

Response

Is the installation prepared to respond to an emergency or disruption?

Recovery

How quickly can the installation restore normal conditions?

The Air Force is taking a resilience-focused approach to future energy and water projects concentrated on providing strategic agility for missions and installations.

For more information:

 safe.hq.af.mil/InstallationEnergy

 AirForceEnergy  @AFEnergy