

The Department of the Air Force Installation Energy Program is committed to developing and deploying policies and guidance to ensure the enterprise is prepared to deliver energy and water whenever and wherever it is needed.

Installation Energy Overview

To address the new realities of a changing climate, growing threats of physical and cyber-attacks on our utilities, and increasing interconnectedness and intricacies of our energy needs, the Department of the Air Force Installation Energy Program is aligning installation energy efforts with mission needs. By placing a greater focus on mission, energy resilience, and the growing importance of water availability, our Airmen and Guardians will be more prepared to protect the nation, its values, and its interests.

With *Mission Assurance through Energy Assurance* as the vision, the installation energy program is pursuing more resilient energy systems through these three goals:

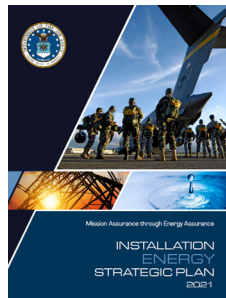
FY 2021 Air & Space Force Energy Facts

6.9% DAF electricity from
renewable sources

595,000 MWh of renewable
energy use

31.9% reduction in energy
intensity since FY 2003

26.8% reduction in total water
intensity since
FY 2007



1 Identify Enabling System Vulnerabilities

Taking a holistic approach both to determine where mission vulnerabilities exist and the scope of their impact on a mission.

2 Improve Resilience Planning

Develop a plan that accounts for enabling system vulnerabilities and connects the identified vulnerabilities directly to potential mission impacts.

3 Ensure Resilience Results

Make the important link between resilience planning, project implementation, and monitoring and verification.



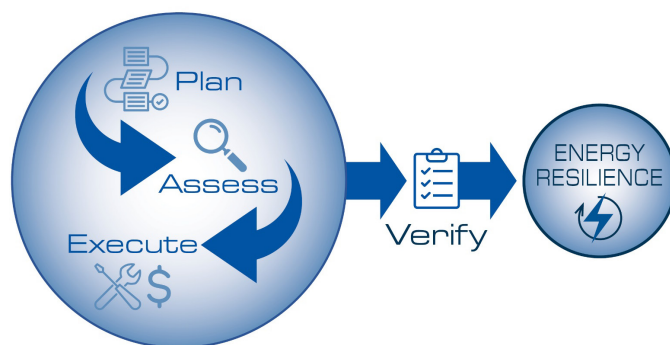
Energy Assurance Approach

More than ever before, Air and Space Force missions rely on assets distributed across multiple installations. This calls for a strategic shift away from an installation-centric view of mission assurance and going beyond just prioritizing energy projects based on equally weighted factors of resilience, cost-competitiveness, and cleaner energy generation.

This new approach captures the shifts toward a greater focus on resilience, mission, climate, and the growing importance of water, with the goal of integrating the results with the overarching mission assurance construct.

Incorporating a mission-centric view from planning and assessment through to execution and verification to improve the resilience of energy and water systems will greater enable capabilities across the enterprise (Figure 1).

Air and Space Force energy solutions will ensure mission assurance through energy assurance by executing projects that are resilience-focused, mission-centric, water-inclusive, and climate-responsive (Figure 2).



5 Rs of Resilience

Preventative Robustness Redundancy Resourcefulness
Performance Recovery Response

Figure 1. The Department of the Air Force approach to mission assurance through energy assurance. The “5 Rs” of resilience encompass the preventative measures that allow installations to avoid disruptions to mission capabilities and performance for effective restoration of those capabilities.



Figure 2. The four qualities of DAF energy projects for mission assurance through energy assurance.

The Department of the Air Force Installation Energy Program is committed to developing and deploying policies and guidance to ensure the enterprise is prepared to deliver energy and water whenever and wherever it is needed.

For more information:

 safie.hq.af.mil/InstallationEnergy

 AirForceEnergy  @AFEnergy