

# Air Force Enterprise Operational and Process Energy Dashboard Validation and Technology Transfer (Task N.0826)

## Statement of Need

The United States Air Force (USAF) must reduce energy consumption and increase the portion of their renewable energy to meet a variety of Federal, DoD, and internal energy goals. In order to meet these goals, the USAF established a comprehensive energy program and an Energy Plan led by the Office of the Deputy Assistant Secretary of the Air Force for Energy (SAF/IEN). The USAF Energy Plan is used to communicate enterprise goals, objectives, and metrics across all USAF functional domains and external audiences. In 2010, SAF/IEN developed an interactive, web-based reporting tool, the Air Force Enterprise Energy Management Framework Dashboard (AFEEFD) to provide centralized access to metrics and energy resources that support the Energy Plan. The AFEEFD leverages the flexibility and accessibility of Microsoft SharePoint®, which resides on the Air Force Network Integration Center Enterprise Information Services site, and is accessible by all authenticated USAF users.

This task leveraged previous work performed under the NDCEE Task Orders 0742 and 0809 in order to expand the AFEEFD to include metrics, capabilities, tools, and templates that support operational energy, process energy, and energy security.

## Technical Approach

The NDCEE assessed the performance of the dashboard designed under Tasks 0742 and 0809 in order to expand the AFEEFD to include metrics, capabilities, tools and templates that supported operational energy, process energy, and energy security. Under NDCEE Task 0809, the team employed a validation/modification methodology to reach internal and external stakeholders. This methodology continued for this task order with emphasis on the following three energy priorities: operational energy, process energy, and energy security. An AFEEFD Modification Plan (AMP) was developed to track activities associated with the energy priorities and AFEEFD modifications that were determined within this task order. The Technology Transition Plan developed under Task Order 0809 was leveraged and amended to include capabilities developed under this task order and a pathway to transition the AFEEFD to SAF/IEN for management.

## Results and Benefits

This task was designed to ensure the AFEEFD is current with SAF/IEN's energy priorities. Specifically, the NDCEE focused on operational energy, process energy, and energy security:

**Operational Energy:** NDCEE utilized SAF/IEN's operational energy business rules as a basis for: 1) integrating energy in the Core Function Lead Integrator and Energy Governance processes, 2) enhancing aviation metrics and identifying investment opportunities, 3) managing OE budget certification deliverables, and 4) developing a methodology to incorporate OE in wargaming.

## Process Energy:

NDCEE developed a Process Energy Policy Guidance Memorandum covering the appropriate oversight, methodology, and tools for process energy management. The policy incorporated guidance on using streamlined life cycle analyses in order to advocate for process energy initiatives.

**Government POC**  
Jennifer Riley,  
Office of the Deputy  
Assistant Secretary for  
Energy SAF/IEN

**Status**  
Complete

**Energy Security:** NDCEE first determined the current state of energy security in the Air Force with regards to policy, investments, and a threat perspective. NDCEE then drafted an Energy Security Policy Guidance Memorandum that consolidated how energy security applies to the Air Force and established energy security goals (i.e., a phase approach to a 100% assessment in five years and periodic reevaluations thereafter).

The capabilities were validated and modified with the guidance of SAF/IEN and a clear technology transition plan was put into place and executed, making this effort a success.

## Technology Transfer and Outreach

NDCEE leveraged the Technology Transition Plan developed under Task Order 0809 and amended the plan to include capabilities developed under this effort. The Technology Transition Plan was intended to align the roles and responsibilities for managing and sustaining each modification. The Technology Transition Plan (at the macro level) included the following three steps: 1) identify the office of primary responsibility (OPR) for each task, 2) coordinate with OPRs to facilitate transfer of responsibility, 3) work with the OPR to ensure working knowledge and successful ability to perform their tasks.



Air Force Enterprise Energy Management Framework Dashboard Developed by NDCEE

