

Sustainable Installations Initiative (SII) (Task N.0401, Subtask 3/N.0440)

Statement of Need

As part of its transformation process, the Department of Defense (DoD) is integrating technology, analysis, and decision-making tools into installation operations to ensure the sustainability of the mission, environment, and community. Sustainability means using natural, human, and capital resources more effectively today to ensure their availability tomorrow.

Through its Sustainable Installations Initiative (SII), the National Defense Center for Energy and Environment (NDCEE) strategically engages installation, community, and technology stakeholders to identify, clarify, and prioritize needs and implement processes that improve mission readiness, maximize personnel well-being and safety, reduce energy and maintenance requirements, are cost-effective, and minimize natural resource consumption and degradation. The FY04 initiatives, under Task N.0401, Subtask 3, began to implement and integrate technology solutions by developing and vetting ideas via installation workshops. The FY05 initiative, under Task N.0440, focused on demonstrating and validating strategies, tools, and technologies.

Demonstration and Justification

By conducting sustainability principles-based training and workshops under Task N.0401, Subtask 3, Government representatives from successful DoD installations focused on prioritizing needs for decision-making capability and technologies in procurement, community education and outreach, infrastructure and energy, transportation, training and land management, solid waste, water quality, and air quality. Gaps in decision-making capability, analytical tools, and technology were identified as well. Task N.0440 demonstrated/validated solutions, supported by analysis, within such areas as renewable energy, infrastructure, and land management.

Implementation

Under Task N.0401, Subtask 3, the SII completed an Army sustainability pilot program assessment database, conducted three sustainability-based workshops, and completed technology baseline assessments within the alternative fuels and process integration areas. Participants from workshops 1 and 2 included representatives from Forts Campbell, Carson, Lewis, Bragg, Benning, Jackson, Rucker, Stewart, McPherson, and Hood; Redstone Arsenal; and

Anniston Army Depot. These workshops were orchestrated with key support from Regional and Headquarters Staff. The primary outcome of workshops 1 and 2 was a vetted list of technology needs that support sustainability goals. Workshop 3 was DoD-focused and was conducted at Fort Shafter with support from Installation Management Agency-Pacific Region (IMA-PARO) and the Office of the Assistant Secretary of the Army for Environment, Safety and Occupational Health (OASA-ESOH). The overarching outcomes of workshop 3 included: (1) Leadership indicating an action to amend State legislation to ensure a partnership between the military and the Hawai'i 2050 Task Force, (2) coordinating and leveraging resources through the Hawai'i Environmental Forum (HEF) to embrace the Army sustainability initiative as a model going forward, (3) committing to planning follow-on initiatives through the direction of the Army while working with Service stakeholders, and (4) furthering Joint/DoD sustainability initiatives through coordination among leadership in IMA-PARO and U.S. Pacific Command and regional Component Commands.

Government POC
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Status
Completed

Follow-Up

Under Task N.0440, the NDCEE demonstrated/validated: (1) forestry management models for the Navy Northwest Region and Fort Lewis, through coordination with the Washington Military Sustainability Partnership (WMSP); (2) renewable energy technologies and building envelope strategies to support the construction of low- and/or zero-energy military dwellings, through partnering with the Army, Residential Communities Initiative (RCI) partner, ACTUS Lend Lease, and military housing authorities at Fort Campbell and U.S. Army Garrison - Hawaii. Task N.0440 supported DoD technology and implementation strategies using tools such as: the Leadership in Energy and Environmental Design – Neighborhood Development (LEED®-ND) guidelines; eQuest, a robust, whole building energy performance software tool; and customized spreadsheets to support best-value capital investments.

