

Air Force Civil Engineer Center (AFCE) Briefs Joint Committee on Tactical Shelters (JOCOTAS) on Advanced Energy Efficient Shelters (AEES), Evaluations a DOD funded effort. The Air Force is evaluating next generation shelter technologies and systems in multiple sites worldwide. The AFCE is establishing next generation shelter system requirements in its ongoing test program that compares the performance of their existing AF Small Shelter (SS) with, standard accessories to potential alternatives. A midterm solution may be to retrofit the SS with energy efficiency kits. A longer range alternative maybe to use a frame tent integrated with a high performance energy efficient over cover. A layer of photovoltaic fabric attached to the cover is under consideration.

The AF is a key partner in the four year AEES project teaming with the Army in Desert testing in Kuwait in 2014 and Tropical testing in Guam in 2015. They have taken a lead role in the evaluation of coatings that reduce thermal buildup and done assessments of multiple types of



flexible photovoltaic arrays. For Arctic evaluations they selected Ellsworth AFB due to its proximity and ease of operations. They evaluated the test shelters in 1QFY15 using both standard environmental control units and fuel fired heaters. The test report is anticipated to be released in 1QFY16.