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Title: Super Size Me: Preparing the Way to Scale Energy Efficient Behavior to a Million Servicemembers and Civilians

Abstract: The Army seeks maximum performance from its facility energy systems in order to ensure we can support the mission a concept we call resilience. Attention to the human dimensions of energy systems is often the necessary, enabling component for efficiency projects to achieve their full technical potential and retain savings over time. While facility energy guidance clearly identifies culture as essential to efficient energy operations, the specifics of executing that culture change objective need more development in military environments before investments are made to scale the application across the more than one million person Army enterprise. To this end, the Army Corps of Engineer's Construction Energy Research Lab (CERL) is investigating current energy studies, programs, policies and procedures to develop a plan for how to scale efficient energy behavior across the Army enterprise. Efforts include: 1) A literature search of military studies to steer energy culture, which uncovered a modest number of specifically designated "energy behavior" projects with quantified impact. 2) An examination of energy guidance documents for references to energy behavior. 3) A big picture screening of the current Army Energy Program (through web searches and interviews) that revealed broad spectrum initiatives that address the full array of stakeholders throughout the facility lifecycle and support people to be their most efficient self. 4) The construction of a list of common behavioral approaches indicating present evidence of utilization, and expected areas with growth potential. 5) The development of preliminary metrics to measure the effectiveness of efforts including observations on the drivers and barriers to culture change, select facility energy utilization data, and a pilot survey to establish a baseline. Mapping efforts that support efficiency to individual stakeholders, taking inventory of utilization of best practices, establishing baseline data, and gathering stakeholder opinions and observations is the framework for a benchmarking of current practice, identification of opportunity gaps in efficient operations, and insights into a path forward for institutional change.