

## Creating an Energy Culture at the Presidio of Monterey

28 August 2015 – ME Lecture Hall – 1300

### With Guest Lecturer Mr. Jay Tulley

Energy Manager for Directorate of Public Works at the US Army Garrison Presidio of Monterey



Mr. Jay Tulley

#### Abstract:

Over the past 5 years (FY10 – FY14), Mr Tulley has led the Presidio of Monterey's Energy Program to an Energy Use Intensity (EUI) reduction of 24% from FY10 to FY14 (From 85 kBtu/SF to 64 kBtu/SF) and total energy consumption reductions of 21% (From 176,214 MMBTU to 140,026 MMBTU) despite increases in square footage and population.

The Presidio has relied on two primary methods achieve these savings: Technical solutions and human behavior techniques. In this lecture, Mr. Tulley will focus on the latter, discussing how an Energy Culture has been developed at the Presidio providing real savings at low cost. Since human beings occupy the buildings, an energy program cannot rely solely on technological solutions. A culture must be created that supports energy conservation by focusing on human behavior. Presidio's energy culture has focused on 4 techniques:

- Creating a physical energy landscape that allows for and encourages the right behavior;
- Developing strong relationships with others on the installation to support the energy program;
- Educating the service member, faculty, and staff on the Presidio on how to conserve energy;
- Providing information feedback such as media articles, graphs and charts, and mock bills to the service members, faculty, and staff on their progress to spur competition and encourage emotional investment in the success of the energy program.

The techniques of "normative influence" such as competition, unit pride, and positive peer pressure that try to appeal to their intrinsic motivation can be used at many military installations. Presidio's service-members typically arrive directly out of basic training and inhabit the Presidio for 18 months on average. Since, for many, this is their first real military home, there is an opportunity to imbue an energy culture baseline on expectations that can carry over to the rest of their career. Mr. Tulley will focus on how "affordances" require that facilities staff allow the energy culture to thrive by creating a physical environment that encourages energy and water conservation.

#### Abridged Biography:

Jay Tulley grew up in Titusville, FL. Upon graduation from the University of Florida in 1999 with a degree in Materials Science Engineering, he was commissioned as a Naval Officer in the Civil Engineer Corps. After assignments in Public Works at the Naval Support Activity Monterey Bay and Construction Management at the Resident Office in Charge of Construction (ROICC) at Aviano Air Force Base in Northern Italy, Tulley moved back to Monterey in 2005. For the next five years, he worked in the private sector doing construction project management on residential, health-care, and commercial projects including the first LEED Certified shopping center in California in 2007.

Since 2010, Tulley has been the Energy Manager for Directorate of Public Works at the US Army Garrison Presidio of Monterey. In this role, he has overseen the energy and water programs, with savings at the Presidio of over \$1.5 million and total energy reductions of 21% during that time. Based on this success and specific initiatives in retro-commissioning and targeted energy conservation at their barracks, the Presidio of Monterey Energy Team was a recipient of the Secretary of the Army Energy Award in 2013 and 2014.



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