



Shipboard Shore Energy Management Program

What is it?

Shipboard Shore Energy Management (SSEM) helps ships understand and manage energy consumption while in port or pier-side utilities.

Description

The Shipboard Shore Energy Management (SSEM) pilot program was initiated by Navy Region Southwest at the San Diego bases in 2007 to expand energy managements services employed at shore facilities. The objective was to identify specific measures that could be reasonably achieved to reduce utility costs and consumption during U.S. Navy ship in port cold-iron periods.

The SSEM program is made possible with a naval facilities metering and monitoring system called Centralized and Integrated Reporting for the Comprehensive Utilities Information Tracking System (CIRCUITS). The system enables the capability to monitor and record energy profiles for each ship connected to shore power. The availability of this data allows the SSEM team to analyze trends, anomalies and identify energy saving opportunities.

Benefits

The SSEM program has helped to reduce the energy consumption of San Diego-based ships with no impact to mission or quality of life. In addition, SSEM further reduces the demand on ship equipment and shore utility systems. These changes have not been the results of expensive, time-consuming technology retrofits, but the result of changing culture to prioritize energy conservation in an operational environment. As an example of this energy conservation in action, sailors now frequently turn off lights in shipboard spaces when the spaces are unoccupied reducing unnecessary energy consumption. Sailors learn to apply such energy saving techniques at work, witnessing firsthand the financial benefits and realizing these techniques can be used at home to reduce personal utility bills. The result is a culture of sailors who recognize energy conservation as a strategic advantage.

At a Glance

How Does it Work?

SSEM is made possible with metering/monitoring tools and Resource Efficiency Managers (REMs) that assist ships with in-port energy conservation programs.

What Will it Accomplish?

SSEM helps to identify opportunities to conserve energy, heighten awareness, and implement change to achieve significant cost savings for the Navy.

Metrics

- 20% energy reduction
- Success of Navy Region SW's pilot program in San Diego is generating interest for expansion to other fleet concentration areas



For More Information

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