

Federal Energy and Water Management AWARDS 2013



Advanced meters and wireless electricity data transmission provide real time information for Coast Guard facilities.



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During FY 2012 the Department of Homeland Security's U.S. Coast Guard completed an aggressive, agency-wide advanced metering infrastructure project that will result in an estimated annual savings of about 19.8 billion Btu and \$624,000. The project installed a robust meter network that provides wireless electricity data from 1,960 meters spread over 220 Coast Guard sites. The meters transmit electrical consumption data from individual electrical panels, buildings, and vessel shore ties to a local data acquisition server.

Data from the advanced meters is being used to identify opportunities for efficiency improvements, verify savings of efficiency measures, influence an energy conscious culture, and streamline energy reporting processes. The Coast Guard now has detailed data for the sites that account for 75 percent of its total shore electricity consumption. Conservative estimates attribute a reduction of 2 percent in overall energy consumption due to the installation of meters. At this rate, the \$8 million project will pay for itself in less than 13 years.