

Energy Management Program

PROJECT DETAILS

EMG and Keres Consulting were selected by the U.S. Department of Homeland Security and FEMA to provide a comprehensive program to comply with several energy-related legislative mandates and acts including, but not limited to, Energy Policy Act of 2005, Energy Independence and Security Act (EISA), Executive Order 13423–Strengthening Federal Environmental, Energy and Transportation Management, and Executive Order 13514. The program included benchmarking of energy usage in Energy Star Portfolio Manager, the relative energy efficiency of the facility based on Level II energy audits, and specific recommendations to optimize energy performance of the buildings, improve reliability, and reduce overall energy consumption at the facilities.

Together, EMG and Keres performed a comprehensive energy audit of 1.5 million square feet of facilities across the United States. Our multi-disciplined project team, led by a Certified Energy Manager, surveyed all building HVAC systems, lighting, operations, controls, structural elements, envelope, R-values of components, and EMS's. Based on information gathered in the field and review of utility rates, field engineers, and field records, our team identified opportunities for energy savings, reductions in fossil fuel emissions, and projected energy/utility savings.

EMG and Keres provided the Department of Homeland Security and FEMA with statements of energy performance, energy audits, and a detailed energy program. The energy program included entering field data into a customized Real Property Management Database, development of energy training and awareness webinars, a socialization and awareness program for all portfolio stakeholders, and recommendations for renewable energy opportunities to include solar, wind, geothermal, and CHP. Deliverables included a final portfolio summary report that identified recommended ECMs and operational changes across the entire portfolio. necessary, photos, and drawings.



FEMA

MARKET SEGMENT

Government - Federal

SERVICES PROVIDED

Benchmarking
Energy Audit
Program Development
Energy Awareness and Outreach Program
Database Development

BUILDING TYPE

Office
Classroom/Training
Laboratory
Warehouse
Dormitory

DURATION

June 2010 – June 2015

PROJECT ELEMENTS

Size: 189 buildings
1.4 MM SF
Cost: Year 1: \$600,000