

The Federal Energy Management Program (FEMP) identifies best practices and provides technical assistance for government agencies to implement affordable solutions and achieve energy efficiency use and consumption goals.

## Economic Highlights

**FEMP stimulates the U.S. economy, job growth, and competitiveness by accelerating the application and accessibility of new high-performing energy cost-saving technologies.**

- FEMP expands training and employment opportunities in emerging technical fields, which over the last five years added 35,000 job-years in energy efficiency, manufacturing, and construction.

**FEMP strengthens U.S. energy security and resilience by improving government energy performance and efficiency.**

- FEMP facilitates Energy Savings Performance Contracts (ESPCs) to upgrade energy-efficient systems and operations in federal buildings. With 340 ESPCs awarded, federal energy spending will be cut by \$8 billion (B) over the next 18 years, offsetting costs of new equipment, maintenance, renewable energy, and infrastructure upgrades.
- In the past five years, FEMP exceeded its \$4 B ESPC investment goal for energy and water system and building infrastructure improvements.

**FEMP is a market catalyst for innovative energy efficiency products and services.**

- The federal government is the largest U.S. energy consumer, with more than 350,000 buildings covering more than 3.1 B square feet and a transportation fleet of 600,000 vehicles.
- FEMP-supported initiatives and partnerships help agencies improve the energy management of their assets. As a result, the federal government has reduced its energy intensity by 49% since 1975, and 25% since 2003.

## FY 2018 Priorities

### FY 2018 Program Focus

Support federal agencies in meeting statutory energy and water management related goals through:

- Accountability performance tracking.
- Catalyzing federal infrastructure investments and strengthening national energy security and resilience.
- Increasing the agility and skills of the federal workforce including enhancing opportunities for veterans.
- Reducing the overall federal government energy related costs for the taxpayer.

### Activity Highlights

- Technical Assistance Leveraging Performance Contracting and Power Purchase Agreements – Assist federal agencies in completing energy-savings projects and infrastructure investments leveraging private-sector financing, without up-front capital costs, reducing the cost to the government.
- Statutory Requirements, Workforce Development, and Agency Engagement – Fulfill statutory requirement for agencies to be accountable for energy management performance through proactive engagement and workforce development.

## FY 2018 Budget Request

Budget Authority (Dollars in Thousands)	FY 2018 Request
Federal Energy Management	10,000
Federal Energy Efficiency Fund/AFFECT	0
<b>Total, Federal Energy Management Program</b>	<b>10,000</b>

FEMP technical and management assistance to government agencies enables them to increase energy performance, realize cost savings, and reduce the energy intensity of public facilities.

## Major Accomplishments and Goals

**FEMP improves energy management by providing essential technical assistance, sharing technical information, explaining standardized approaches, facilitating innovation, and leveraging expertise and financing from private sector sources.**

- In the past five years, with FEMP support federal agencies decreased the energy intensity of their buildings by 13.6% in terms of site-delivered British Thermal Units (BTUs) per square foot.

**By 2025, FEMP plans to achieve federal energy and water cost savings of approximately \$18 billion, yielding significant benefits to the American taxpayer.**

- By reducing energy use in federal buildings by 2.5% each year between 2015 and 2025.
- By reducing the water intensity in federal buildings by 2% each year through 2025.

## Success Stories

### Public-Private Partnerships

FEMP offers financing options to agencies ready to implement energy and water efficiency projects. ESPCs allow agencies to procure facility improvements and realize energy savings without up-front capital costs or appropriations.

On April 28, 2017, in announcing 21 new ESPC Indefinite Delivery Indefinite Quantity (IDIQ) contracts, Secretary Perry explained “A key component is that these energy and water efficiency projects at federal facilities pay for themselves, and the hope is that all federal agencies will utilize this financing method to the fullest extent.”

#### DOE ESPC IDIQ Results Since 1998



>\$4.9 B invested  
in EERE  
improvements



>490 trillion Btu  
in life-cycle  
energy savings



\$11.9 B in  
guaranteed  
energy cost  
savings

### Workforce Development

**FEMP assists federal agencies in developing energy-related job skills and helping American veterans.**

**Training** – FEMP provides training accredited by the International Association for Continuing Education and Training. In 2016, FEMP offered 119 energy-related courses, workshops, and webinars, and 96 Energy Exchange accredited sessions for 215 training events. FEMP awarded 6,654 Continuing Education Unit certificates in core transferrable competencies.

**Veterans’ Summer Internships** – Since FY 2014, the Vets’ Internship Program has provided former military personnel with job training and practical experience in clean energy fields. FEMP sponsored 34 veterans working at federal agencies, including the Departments of Defense, Agriculture, Homeland Security, and Energy, the Smithsonian Institution, and others.

### Federal Research Center at White Oak, Maryland –

Through a construction ESPC, the General Services Administration is helping the Food and Drug Administration consolidate 40 facilities in the Washington, DC area to a single campus. The campus includes highly critical biological experimentation needing reliable energy to support biosafety containment protocols related to the handling of potentially deadly agents like yellow fever and West Nile virus. Energy security at the FDA campus will enable operations to continue off grid in an outage, with safe redundant and back-up systems.

### Federal Aggregated Solar Procurement Pilot (FASPP) –

FASPP is the first federal aggregated solar photovoltaic contract procurement across two agencies and seven sites in California and Nevada. The 4.6-megawatt FASPP project is privately financed, creating \$13.8 million (M) in economic activity<sup>1</sup> and 93 American jobs<sup>2</sup> with a projected cost savings of \$9.4 M<sup>3</sup>. The project demonstrates American innovation, with adoption of a technology invented at the Georgia Technology Institute, currently made in the United States.

**Energy Exchange** – FEMP’s Energy Exchange conference engages thousands of participants in energy performance, efficiency, financial, and best practices learning programs. Nearly 2,400 government and industry representatives attended in 2016 – 54% were from federal agencies, 46% were from industry, and 14.7% were speakers and presenters.



<sup>1</sup> Total cost of materials and labor for developer, minus interest. FASPP sites are under construction. Estimates may change.

<sup>2</sup> U.S. Energy Jobs & Employment Report, U.S. Department of Energy, January 2017.

<sup>3</sup> Savings were calculated upon contract award and may increase over time.