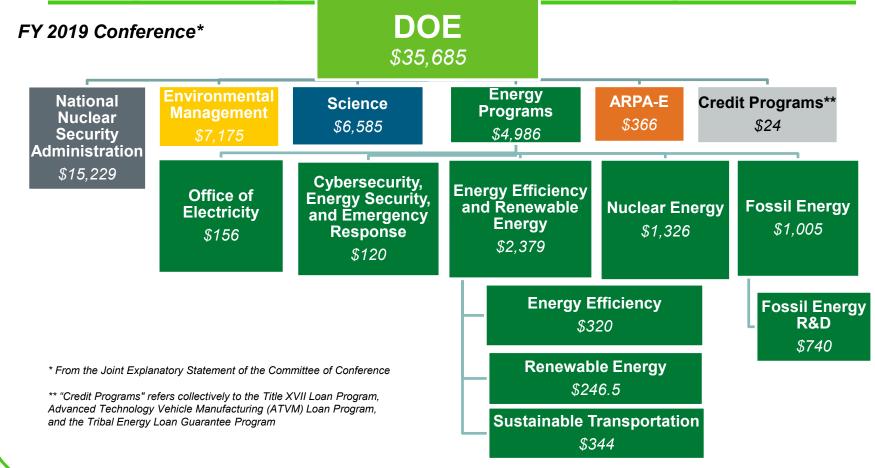
Focus On FEMP

NAESCO 2019 Federal Market Workshop
March 14, 2019
FHI 360 Conference Center
Washington, D.C.



DOE Budget: Appropriations Summary for Selected DOE Offices and Programs (dollars in millions)





EERE Priorities

EERE promotes affordable and reliable energy to enhance America's economic growth and energy security. Priority focus areas include:

- Energy Affordability continuing to drive down costs of the energy technologies in our portfolio
- Energy Integration facilitate the integration of new sources of generation and consider opportunities from greater flexibility in energy consumption
- **Energy Storage** technological advances to provide more flexible generation and more flexible load through a comprehensive approach to energy storage with smart buildings, pumped hydro, hydrogen storage, and batteries



















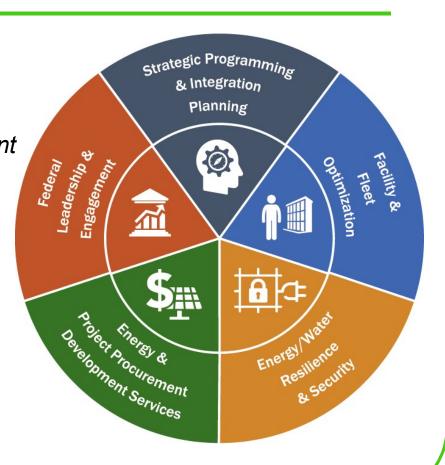






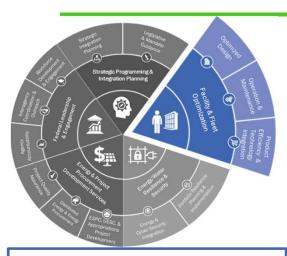
Wheelhouse

Providing strategic energy management for agencies to become resilient, efficient and secure in support of Administration priorities for American Energy Dominance, Increased Government Accountability and Development of a Future-Focused Workforce.





Facility & Fleet Optimization



Key Program Engagements

- Creating standardized and replicable solutions
- Providing implementation guidance to agencies
- Promoting energy ownership and management - not just projects

Administration Priorities:

Energy Affordability Integrated Energy & Water Solutions Workforce Development

| Optimized |
|-----------|
| Desigr |

Bring Added Value to Energy Management

- Use standardized and replicable best practices
- Bring recognition for success, like DOE's 50001 Ready recognition
- Design for water, health, safety and demand response savings
- Discuss valuing resilience and making it part of project savings
- Build in advanced metering and data roll-up across facilities

Operations & Maintenance

Valuing & Acting on O&M related opportunities

- ESCOs ensure O&M is part of project scope
- Work with FEMP on best practices and guidance
- Sell continuous improvement savings (DOE data is ~2-5%/yr)
- Hands on actions like Treasure Hunts can be valuable

Product Efficiency & Technology Integration

Product Mix Changing...so Bring New and Supported Information

- FEMP EE Procurement Program & ENERGY STAR starting point
- Think in lifecycle but also non-energy benefits (health, safety, resilience)
- Share your technology solutions with FEMP so we can stay ahead...
- Data brings M&V 2.0 opportunities but also new energy savings!



Energy/Water Resilience & Security



Key Program Engagements

- Systematic, prioritized approach to resilience planning
- Creating replicable solutions across agencies
- Promoting actionable assessments and templates

Administration Priorities:

Energy Affordability Integrated Energy & Water Solutions

Portfolio Resilience Planning

Technical Resilience Navigator

Systematic, prioritized approach for organizations to assess current infrastructure against mission priorities and risk (threats, vulnerabilities, consequences), identify solutions, and prioritize solutions and projects for implementation.

- · Outlining risk, prioritization, and valuation approaches
- · Developing agency universal resource
- Implementing at portfolio and site level
- Examining technical and operational solutions

Energy & Cyber Security Integration Focusing on tools to evaluate and implement cybersecurity risk management strategy:

- Facility Related Control Systems (FRCS)
 - Facility Cybersecurity Framework (FCF)
 - Facilities Cybersecurity Maturity Model (F-C2M2) Lite
 - Training components with both tools
- Distributed Energy Resources (DER)
 - Distributed Energy Resources Cybersecurity Framework (DERCF)
- Developing contract language and best practices for cybersecurity



Energy & Project Procurement Development Services



Key Program Engagements

- Encourage use resilience and all eligible equipment.
- Encourage new starts
- Reinforce tools to speed projects: ESCO Selector, 30 page PA

Administration Priorities:

Modernizing and Managing Infrastructure

ESPC, UESC & Approps.
Project
Development

Recent successes: FY 18 achieved record ESPC awards at \$809 M following other record years with a large increase in project size; and many projects are enabling resilience with CHP, micro-grids, storage and controls. Incorporation of 50001 as an ESCO provided service.

On the horizon: Wrap up of Gen 2; further record projects; and greater application of resilience, data centers, distributed generation, and storage.

Distributed Energy & Energy Procurement **Recent successes:** The ReOpt lite tool has seen rapid growth is usage (1,100+ web tool users, 325,000 API hits); ESPCs with ESAs are being awarded;

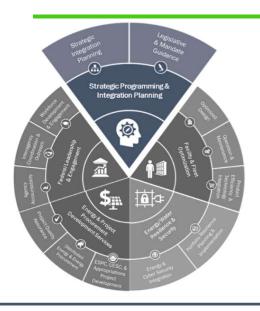
On the horizon: Comprehensive ESA guidance will be issued at the Energy Exchange, ReOpt Lite is becoming a platform for multiple EERE technologies: PV, Wind, and in future, CHP—ReOpt use with ESPCs and UESCs

Project Quality Assurance **Recent successes:** Full rollout of LOC reports to key agencies; water escalation rate guidance; O&M guidance.

On the horizon: Customized agency trainings; actions to address shortfalls



Strategic Programming & Integration Planning



Key Program Engagements

- Coordination with White House Council on Environmental Quality
- Coordination with Office of Management and Budget
- Key Stakeholder Exchange

Administration Priorities:

Maximizing Interagency Coordination

Strategic Integration Planning

- Strategic energy management agency needs integrated with Administration priorities
- Foundation: Efficient-Secure-Resilience (goals)
- Affordability-Storage-Integration (needs)
- Strategic agency partnerships force multiplier

Legislative & Mandate Guidance

- Implementation of Executive Orders guidance focus
- · Streamlining data collection & enhancing data analysis
 - Expanding use of eProject Builder
 - ISO agency pilot
- ESPC Rule



Federal Leadership & Engagement



Key Program Engagements

- IACET
- FBPTA
- DOD NDAA
- Agency Recognition
 - 30 Federal Energy and Water Awards & 2 Directors Awards
 - 16 FEDS Spotlight Awards

Administration Priorities:

Developing Future-Focused Workforce Increasing Government Accountability

| Interagency |
|---------------------------|
| Coordination & |
| Outreach |

Chairs 5 Working groups

Leads development of E.O. Implementation Guidance

Agency roundtable discussions

Agency Accountability

Agencies report annual energy and water consumption and resource management to *FEMP*.

Annual Progress tracking for OMB Scorecard by FEMP

Annual Report to Congress

Training – 30,693 hours / 315 training sessions in FY18 **2018 Energy Exchange and Better Buildings Summit**

- 2,900+ attendees
- 20,971.5 total training hours provided

Workforce
Development &
Engagement

Veteran Interns Program – Interns at 6 agencies in FY18

Focus

- •Multi-disciplinary dynamic needs for "Energy Manager"
- Capture lessons learned from award winners
- •Agency-Driven Mission Readiness-Workforce Development





Registration and Hotels are open!

Early bird registration ends June 14.



For more event details, justification resources, and to book hotels and register visit:

Energy-Exchange.com

- ATTEND OVER 100+ AGENCY REVELANT TECHNICAL TRAININGS (AND EARN CEUS)
- PARTICIPATE IN LEADERSHIP LED PEER-TO-PEER DISCUSSIONS
- **ENGAGE** WITH EXPERTS AT THE FEMP HUB
- NETWORK WITH THE FEDERAL ENERGY MANAGEMENT COMMUNITY
- EXTEND YOUR LEARNING AT THE FEMP PRE-EVENT WORKSHOPS ON 8/19
- EXPLORE THE INNOVATIVE MULTI-DAY TRADE SHOW



Thank You

Dr. Robert Ivester

FEMP Director Robert.lvester@ee.doe.gov

Leslie Nicholls

FEMP Strategic Director Leslie.Nicholls@ee.doe.gov

Skye Schell

FEMP Supervisor, Procurement Services: Performance Contracting and Energy Generation Schuyler.Schell@ee.doe.gov

Hayes Jones

FEMP Supervisor, Federal Leadership and Engagement; Energy Resiliency and Security Hayes.Jones@ee.doe.gov

Jay Wrobel

FEMP Supervisor, Facility
Optimization: Facility Design,
Operations, and Policy
Jay.Wrobel@ee.doe.gov

For more information, visit: femp.energy.gov



Additional Slides NAESCO National Association of Energy Service Companies

Overview







5

Key Areas

3

Agency Partnerships









69

Case Studies

100

Tools

126

Online Trainings

290

Guidance Resources

