Introduction to ESPC ENABLE

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Interagency Sustainability Working Group
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Agenda

• ESPC ENABLE Overview
• ECM Summary
• Process Cycle
• Program Status
• Next Steps
• FEMP Assistance and Contacts
• Questions
ESPC ENABLE Overview

ESPC ENABLE is an alternative energy performance contracting program:

- Intended for smaller projects at federal facilities (underserved market)
  - Or where ENABLE presents the best or only option for the agency to fund a project
    - Is intended for Federal facilities with buildings under 200,000 square feet
    - Project size $200k - $5.5 million
    - **No fixed minimum or maximum facility or $ size**
- Standardized and streamlined process to quickly award projects and realize savings using GSA Schedule 84, SIN 246-53
  - Templates, IGA tool
  - No preliminary assessment
- Targets straight-forward ECMs including lighting, water fixtures, basic HVAC controls, HVAC equipment replacement and solar PV
- Prescribes basic levels of measurement and verification (M&V) for each ECM – primarily Option A
## ESPC ENABLE: ECM Summary

<table>
<thead>
<tr>
<th>ECM</th>
<th>Included</th>
<th>Not Included</th>
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<tbody>
<tr>
<td>Lighting</td>
<td>• Lamps, Ballasts, Fixtures</td>
<td>• Solar Lighting (off-grid installations allowed)</td>
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<td>• Controls: Occupancy, Day lighting (on/off, dimming)</td>
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<td>Water</td>
<td>• Sanitary plumbing fixtures: sinks, toilets, urinals, showers</td>
<td>• Heating/Cooling system improvements (cooling towers, once through cooling, condensate reclaim)</td>
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<td>• Irrigation</td>
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<td>• Leak repair</td>
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<td>• Domestic/commercial hot water heaters</td>
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<td>• Water based appliances: dishwasher, ice machine, clothes washer, etc.</td>
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<td>HVAC Controls</td>
<td>Whole building control strategies including:</td>
<td>• Advanced Controls 1: Energy Management Control Systems (EMCS) / Building Automation Systems (BAS)</td>
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<td></td>
<td>• Time/Temperature Set-back</td>
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<td>• Demand/Night Ventilation</td>
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<td>HVAC Equipment</td>
<td>Basic whole building/system one-for-one replacement 2 of:</td>
<td>• Single building Boiler/Chiller</td>
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<td></td>
<td>• Window AC units / Electric Baseboard heat</td>
<td>• Central Boiler/Chiller Plants</td>
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<td>• Split AC/Furnace</td>
<td>• Retro-commissioning based activities</td>
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<td>• Heat Pumps</td>
<td>• Non-building related heating/cooling/ventilation</td>
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<td></td>
<td>• Packaged Terminal Air Conditioner (PTAC)</td>
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<td></td>
<td>• Packaged Single Zone Air Conditioner (PSZ)</td>
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<td></td>
<td>• Roof Top Units (RTU)</td>
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<td>Solar PV</td>
<td>• Ground, Roof, Parking Canopy mount</td>
<td>• Solar Thermal (Hot Water)</td>
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<td>• Fixed and Tracking Arrays</td>
<td>• Hybrid PV/Hot water systems</td>
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<td>• Grid Tied and Off-grid</td>
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1. Advanced Controls may be considered, however savings calculations within the ENABLE IGA tool are limited to time/temp set-back, demand/night ventilation
2. Current ENABLE IGA tool is presently configured to model one-for one replacement of whole system(s) across an entire building with “like” systems (ex: replace (3) RTU’s with (3) higher efficiency RTU’s.) IGA Tool not presently configured to model partial replacement of building HVAC systems or replacement/modification of sub-systems (ex: VFD’s on select fan units).
ESPC ENABLE: Process Cycle

- Projects awarded in about 6 months
- Energy/cost savings in 8-12 months
Updates in the Program

• 21 qualified ESCOs under GSA Schedule 84
  – Eleven Small Business contractors
    • Three Disabled Veteran contractors
  – Six IDIQ contractors
• IGA tool being converted to web environment

Project Status

• 4 projects awarded: USAF, GSA, USFS, US Embassy ($0.2 - $3.5 million)
• Multiple projects underway (Pipeline: 18 projects, $20m; $0.5-$6.5m per project)
• Project scopes range from one to multiple ECMs
• Look at agency portfolio to identify:
  • Small sites not attractive under IDIQ
  • Potential to develop comprehensive agency program
  • Small business/disabled veteran targets
• Contact FEMP for additional guidance
FEMP Resources Available to Federal Customers

• Assistance to build an ENABLE program
• Tools and templates
• Guidance to train, educate, and motivate
• Project management support to guide you through the ESPC ENABLE process
• Procurement subject matter experts to support project execution
• ESPC ENABLE webpage resources, including training
http://energy.gov/eere/femp/espc-enable
DOE FEMP Project Contacts

FEMP Federal Project Executives (FPE)

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http://energy.gov/eere/femp/espc-enable