



FEMP's Technology-Specific Super Energy Savings Performance Contracts (Super ESPCs)

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FEMP's Mission

To reduce the cost and environmental impact of the federal government by advancing energy efficiency and water conservation, promoting the use of distributed and renewable energy, and improving utility management decisions at federal sites.

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FEMP's mission — helping agencies meet their federal energy management goals

- Reduce energy consumption
 - Standard building consumption per square foot to be reduced 30% by 2005 and 35% by 2010 relative to 1985
 - Industrial/laboratory consumption to be reduced 20% by 2005 and 25% by 2010 relative to 1990
- Expand use of renewable energy
 - 2.5% of federal facility electricity consumption by 2005
 - 2,000 solar energy systems by 2000; 20,000 by 2010
- Implement best management practices for water conservation in 80% of federal facilities by 2010
- Reduce greenhouse gas emissions 30% by 2010 compared to 1990

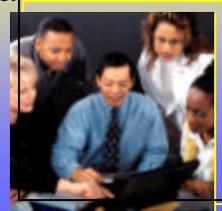
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Purpose of FEMP's Tech-Specific Super ESPCs — Help agencies meet their goals

- Tech-Specific Super ESPCs are making energy-efficient and renewable energy technologies just as accessible and practical for federal agencies as more conventional, less efficient technologies.
- Access is key.



Technologies FEMP Chooses for Emphasis

- FEMP focus on technologies that
 - promise substantial energy savings
 - are well suited for application in federal facilities
 - are commercially available, and wanted by agencies, but not widely used in the federal sector
 - are perhaps not well enough established in the marketplace to be readily available through routine acquisition processes

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DOE-FEMP's Technology-Specific Super ESPCs

- Geothermal Heat Pumps (GHPs)
- Biomass and Alternative Methane Fuels (BAMF)
- Photovoltaics (PV)
- Solar Thermal Concentrating Systems





Tech-Specific Super ESPC Strategy

- Financing
- Streamlined procurement
- Access to private-sector expertise
- Experienced, qualified FEMP Project Facilitators
- Unbiased technology experts who support Project Facilitators

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Technical assistance from FEMP Services expands opportunities

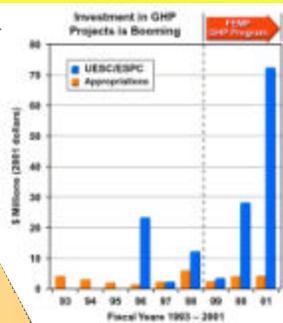
- FEMP Services provides the trusted technical assistance and information that federal facility managers need to support decisions to invest in “advanced” technologies



Sky-rocketing federal GHP use

Hard Data
Technical Support
Access to Financing

FEMP's GHP program is a tech-specific success



FEMP tech-specific efforts go beyond ESCPs

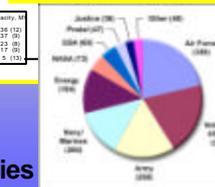
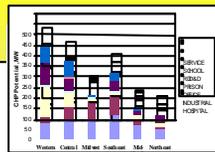
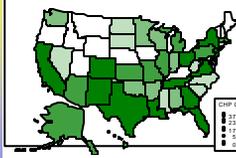
- FEMP tech-specific expertise for projects funded through utility contracts, appropriations, or ESCPs
 - Geothermal Heat Pumps (GHP)
 - Biomass and Alternative Methane Fuels (BAMF)
 - Distributed Energy Resources
 - Renewables — wind, photovoltaics, thermal solar
 - Combined Heat & Power (CHP)
 - Laboratories, fume hoods

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Focus on opportunities — CHP



2002 FEMP assessment found 1600 MW CHP potential in federal facilities



With FEMP support, federal CHP projects are moving forward

- Super ESPC project at USMC base in Twentynine Palms
- Savings from 7-MW, dual-fuel cogeneration system are subsidizing a 1-MW PV system



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http://www.eere.energy.gov/femp/financing/espcc/getting_started.html

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