

**DEPARTMENT OF ENERGY
FY 2003 CONGRESSIONAL BUDGET REQUEST
ENERGY CONSERVATION
(Dollars in Thousands)**

**OFFICE OF FEDERAL ENERGY MANAGEMENT PROGRAMS
PROGRAM MISSION**

Mission: The Office of Federal Energy Management Programs (FEMP) works to increase the energy security and decrease the environmental impact of government by advancing energy efficiency and water conservation, promoting the use of distributed and renewable energy, and improving utility management decisions at Federal sites.

Context: The Federal government is the single largest energy consumer in the nation, using 1.01 quads in its buildings, operations, and vehicles. In FY 2000, the Federal government spent \$4.0 billion on energy for its 500,000 buildings (\$3.4 billion for standard buildings; \$.06 billion for energy intensive facilities) and more than \$3 billion on energy for its vehicles and equipment. In addition, the Federal government spends as much as \$200 billion annually on energy-using products and services. Through prudent purchasing, the Federal government can influence the development of more energy efficient and renewable products.

With the help of FEMP in leading and coordinating this effort, Federal agencies exhibit leadership by reducing energy use in their facilities through the implementation of energy efficiency projects and smart energy management and operations. According to preliminary data, agencies reduced energy intensity by 23.6% on a Btu per gross square foot basis (i.e. energy intensity) compared to FY 1985.

Strategic Approach: FEMP leverages the technical expertise of DOE's regional offices, national laboratories and other EERE sectors with the financial, project, and operational expertise of private sector partners such as utility and energy service companies. FEMP also leverages university programs in support of initiatives including ALERT teams (Assessment Load Energy Reduction Techniques: these identify low cost and no cost operational energy efficiency measures at federal facilities) to conduct load reduction assessments and Green Energy Parks (this is a partnership between EERE and the National Park Service that implements energy efficiency and renewable energy technologies while educating the visiting public about these technologies).

All of FEMP's Super Energy Savings Performance Contracts (Super ESPCs) have been pre-competed, providing the benefits of competition, in a greatly condensed timeframe. Agencies participating in the ESPC program reimburse FEMP for related expenses; these funds in turn are used to support further development of energy and cost-saving projects under the ESPC program.

Management allocates funds in a number of program areas through the use of project calls which rank funding requests against criteria

including ability to cost share, replication potential, impact on energy consumption, and implementation feasibility. FEMP's management activities include reporting on agency performance against Congressional and Administration goals, as well as program and project management oversight of FEMP's extensive contractor base.

GPRA:

Metric – Federal Buildings

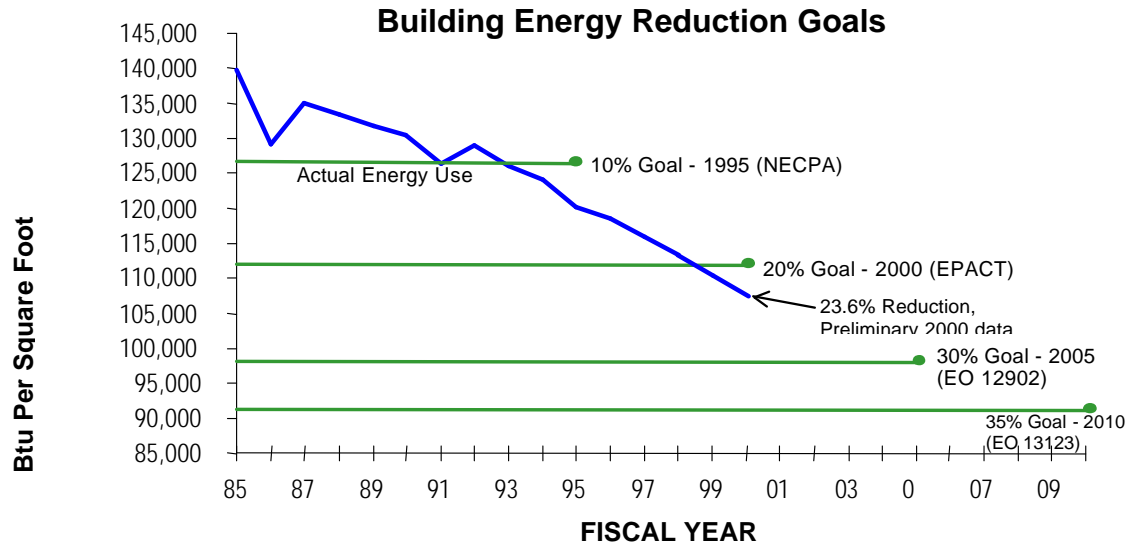
	2010	2020
Total Primary Energy Displaced (Quads)	0.04	0.06
Total Cost Savings in Year (2002 \$ billions)	0.2	0.3
Carbon Equivalent Emissions Displaced (MMTCE)	0.7	1.1

Source: GPRA 2003 EERE Database. Numbers in the above table represent the projected annual benefits in 2005, 2010, and 2020 based on the FY2003 funding request, assuming all program goals are met.

Note: Program benefit projections are developed through an impact analysis process undertaken annually by EERE, based on assumptions for future energy markets derived from EIA's annual energy outlook. EERE's sectors analyze the impacts their programs will have on energy savings, energy cost savings, and carbon reductions if all program goals are met, and future energy markets develop as expected. A sample of program benefit estimates is externally review by Arthur D. Little.

With FEMP's assistance, the Federal Government reduced its energy intensity at Federal facilities by 20.7 percent in 1999 compared to 1985 levels, achieving the 20 percent reduction goal set by Congress in the Energy Policy Act of 1992 a year ahead of schedule. In 1999 alone, the Federal Government saved almost \$1 billion on its energy bill due in part to energy improvements made since 1985. As illustrated in the graphic below, preliminary data for FY 2000 indicates the Government has reduced its energy intensity in standard buildings by over 23 percent. In order to reach the 35 percent goal in 2010, Federal agencies must reduce their energy use by approximately 60 trillion BTUs.

The Federal government can continue to make substantial progress toward reducing its energy consumption by expanding its use of alternative financing vehicles to fund energy improvements; increasing the procurement of energy efficient technologies; constructing energy efficient buildings; properly operating and maintaining existing facilities; improving load management; and using efficient energy technologies. In addition, the Federal government can help electric system reliability by managing its utility demand and encouraging on-site generation with distributed energy technologies including renewable energy technologies, microturbines, and fuel cells – many of which include combined heat and power systems.



Program Strategic Performance Goal

ER1-18: The Federal Energy Management Program activities will increase the energy security and reduce the environmental impact of the Federal government by decreasing energy intensity in standard Federal facilities by 30 percent by 2005, relative to 1985 levels.

Performance Indicators

- Standard buildings/facilities: A reduction in gross square foot energy consumption by 30% by 2005 and 35% by 2010, relative to a 1985 base.
- Industrial, laboratory, research, and other energy-intensive buildings: a 20% reduction by 2005, and 25% by 2010, relative to a 1990 base.
- Renewable energy use equal to 2.5% of Federal facility electricity consumption by 2005.
- 2,000 solar energy systems by 2000: 20,000 solar energy systems by 2010
- Implement best management practices for water conservation in 80% of Federal facilities by 2010
- Reduce greenhouse gas emissions by 30 percent by 2010 compared to 1990

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OFFICE OF FEDERAL ENERGY MANAGEMENT PROGRAMS

PROGRAM FUNDING PROFILE

Program Activity	FY 2001 Appropriation	FY 2002 Appropriation	FY 2003 Request	\$ Change	% Change
Program Activities, Operating Expenses	\$ 21,227	\$ 18,900	\$ 23,425	\$ 4,525	23.9%
Program Direction, Operating Expenses.....	\$ 4,434	\$ 4,400	\$ 4,455	\$ 55	1.3%
TOTAL	\$ 25,661	\$ 23,300	\$ 27,880	\$ 4,580	19.7%
 Summary					
Operating Expenses	\$ 25,661	\$ 23,300	\$ 27,880	\$ 4,580	19.7%
Total Program	\$25,661 ^a	\$ 23,300	\$ 27,880	\$ 4,580	19.7%
 Staffing (FTEs)					
	Actual	Budgeted	Budgeted		
HQ FTEs	27 ^{b/}	27	27		
Field FTEs (Financed by Other Agencies)	5 ^c	6	6		
Total FTEs	32	33	33		

^{a/} Reflects adjustment of \$-57,000 for Omnibus Rescission, P.L. 106-554.

^{b/} Actual Full-Time Equivalent (FTE) usage is cited for FY 2001 while budgeted staffing numbers are displayed in the FY 2002 and FY 2003 columns. For comparability purposes, budgeted FY 2001 HQ FTE was 32.

^{c/} These are the number of estimated limited appointment field personnel to be paid from reimbursed funds, authorized for FEMP's use by Congress in P.L. 105-277.

Authorizations:

P.L. 94-163, Energy Policy and Conservation Act

P.L. 94-385, Energy Conservation and Production Act

P.L. 95-619, National Energy Conservation Policy Act

P.L. 100-615, Federal Management Improvement Act

P.L. 102-486, Energy Policy Act

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OFFICE OF FEDERAL ENERGY MANAGEMENT PROGRAMS

SUMMARY OF CHANGES

	FY 2003 Request
FY 2002 Comparable	\$ 23,300
Non-Discretionary	
- Increase for Federal Pay Raise and Locality Pay	52
FY 2003 Base	\$ 23,352
<u>Federal Energy Management Program Activities:</u>	
- Project Financing – Slight decrease in project management support to agencies for projects implemented through energy savings performance contracts and utility energy service contracts..	-10
- Technical Guidance and Assistance - Increased funds to support audits, design and implementation assistance for general and renewable projects, training, analytical tools, and communication activities. Expand support for distributed energy resources/combined heat and power projects at Federal facilities. Increase funding for comprehensive assessments to identify peak load reduction opportunities, energy cost management strategies, efficiency improvements, and renewable energy opportunities .	4,042
- Planning, Reporting, and Evaluation - Increase funds to support program reporting and outreach activities.....	463
- Technical/Program Management Support - Increase support services for project financing, technical assistance, and planning, reporting, and evaluation program efforts.	30
<u>Program Direction:</u>	
- Insignificant increase for staff expenses	3
FY 2003 Congressional Budget Request	\$ 27,880

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OFFICE OF FEDERAL ENERGY MANAGEMENT PROGRAMS

I. Mission Supporting Goals and Objectives

Management Strategy: FEMP leverages the technical expertise of DOE's regional offices, national laboratories and other EERE sectors with the financial, project, and operational expertise of private sector partners such as utility and energy service companies. FEMP also leverages university programs in support of initiatives including ALERT teams (Assessment Load Energy Reduction Techniques: these identify low cost and no cost operational energy efficiency measures at federal facilities) to conduct load reduction assessments and Green Energy Parks (this is a partnership between EERE and the National Park Service that implements energy efficiency and renewable energy technologies while educating the visiting public about these technologies).

All of FEMP's Super ESPCs have been pre-competed, providing the benefits of competition, in a greatly condensed timeframe. Agencies participating in the ESPC program reimburse FEMP for related expenses; these funds in turn are used to support further development of energy and cost-saving projects under the ESPC program.

FEMP's program evaluation process includes an in-depth customer survey to ensure that the program evolves in a way that is consistent with market and agency needs. Management allocates scarce funds in a number of program areas through the use of project calls which rank funding requests against criteria including ability to cost share, replication potential, impact on energy consumption, and implementation feasibility. FEMP's management activities include reporting on agency performance against Congressional and Administration goals, as well as program and project management oversight of FEMP's extensive contractor base.

Program Strategic Performance Goal

ER1-18: Increase the energy security and reduce the environmental impact of the Federal government by decreasing energy intensity in standard Federal facilities by 30 percent by 2005, relative to 1985 levels.

Performance Indicators

- Energy use per gross square foot in standard and energy intensive Federal buildings
- Federal building use of energy produced by renewable resources
- Greenhouse gas emissions attributable to Federal buildings

Annual Performance Results and Targets

FY 2001 Results	FY2002 Target	FY2003 Proposed Target
<ul style="list-style-type: none"> ▪ <i>Continued efforts to reduce energy intensity in Federal buildings and report the results achieved through the end of FY 1999, towards the goal of achieving a 22 percent reduction by the end of FY 2001 as compared to 1985 energy intensity. Preliminary data suggests that Agencies exceeded this goal a year early, achieving a 23.6 percent reduction in energy in 2000.</i> ▪ <i>Made progress toward completing one nationwide biomass technology Super Energy Savings Performance Contract (ESPC) for use by all agencies, bringing the total number of technology Super ESPCs to four.</i> <i>Historical Reference*</i> <ul style="list-style-type: none"> ▪ <i>Achieved \$120 million in private sector investment through Super ESPCs. (GREEN)</i> ▪ <i>Completed 25 Assessment of Load and Energy Reduction Techniques (ALERT) assessments to shave anticipated peak demand and general energy consumption by 10%. (GREEN)</i> ▪ <i>N/A</i> ▪ <i>Trained 5,400 federal energy personnel in best practices (GREEN)</i> 	<ul style="list-style-type: none"> ▪ <i>Continue efforts to reduce energy intensity in Federal buildings by 24 percent by the end of FY 2002 as compared to 1985 energy use.** Report the results achieved through the end of FY 2000.</i> ▪ <i>Support the Federal goal of obtaining 2.5 percent of Federal facilities' electricity needs from renewable energy sources by 2005.</i> <p><i>Historical Reference*</i></p> <ul style="list-style-type: none"> ▪ <i>Achieve between \$80 and \$120 million in private sector investment through Super ESPCs, contributing to national energy security.</i> ▪ <i>Complete at least 60 energy assessments including ALERTS, SAVEnergy Audits, industrial facility assessments and operation and maintenance assessments to identify energy and cost saving opportunities.</i> ▪ <i>Publish initial listing of products that use minimal standby power by 12/31/01 in accordance with E.O. 13221.</i> ▪ <i>Train 4,000 federal energy personnel in best practices supporting National Energy Policy education goals.</i> 	<ul style="list-style-type: none"> ▪ <i>Provide technical and design assistance for 70 energy efficiency, renewable energy, and water conservation projects; 10 will be large-scale distributed energy resources and combined heat and power projects. Report results achieved through the end of FY 2001.</i> <ul style="list-style-type: none"> ▪ <i>Achieve between \$80 and \$120 million in private sector investment through Super ESPCs, contributing to national energy security.</i> ▪ <i>Complete at least 80 energy assessments including ALERTS, SAVEnergy Audits, industrial facility assessments and operation and maintenance assessments to identify energy and cost saving opportunities.</i> ▪ <i>Integrate information on standby power into Defense Logistics Agency and General Services Administration's product schedules in accordance with E.O. 13221.</i> ▪ <i>Train 4,000 federal energy personnel in best practices supporting National Energy Policy education goals.</i>

**While not included in original FY01 and FY02 Annual Performance Plans, FEMP has and will continue to track these targets in FY03.*

***Starting in FY03, number of projects assisted will be used as an indicator toward achievement of annual Federal energy reduction targets since 1)number of projects are wholly under the control of FEMP, whereas reduction in energy intensity is a government-wide achievement, and 2)previous year data on energy intensity are not available until after the report on Annual Performance is due.*

II. A. Funding Table: FEDERAL ENERGY MANAGEMENT PROGRAM

Program Activity	FY 2001 Comparable	FY 2002 Comparable	FY 2003 Request	\$ Change	% Change
Project Financing	\$ 9,667	\$ 8,700	\$ 8,690	\$ -10	-0.1%
Technical Guidance and Assistance.....	\$ 7,896	\$ 7,000	\$ 11,042	\$ 4,042	57.7%
Planning, Reporting, and Evaluation	\$ 2,777	\$ 2,340	\$ 2,803	\$ 463	19.8%
Technical/Program Management Support	\$ 887	\$ 860	\$ 890	\$ 30	3.5%
Program Direction.....	\$ 4,434	\$ 4,400	\$ 4,455	\$ 55	1.3%
Total, Federal Energy Management Program.....	\$ 25,661	\$ 23,300	\$ 27,880	\$ 4,580	19.7%

II. B. Laboratory and Facility Funding Table: FEDERAL ENERGY MANAGEMENT PROGRAM

	FY 2001	FY 2002	FY 2003	\$ Change	% Change
Lawrence Berkeley National Laboratory	\$ 2,700	\$ 2,700	\$ 3,105	\$ 405	\$ 15.0%
National Renewable Energy Laboratory	\$ 6,200	5,200	\$ 5,980	\$ 780	\$ 15.0%
Oak Ridge National Laboratory	\$ 3,600	\$ 3,600	\$ 4,140	\$ 540	\$ 15.0%
Pacific Northwest National Laboratory.....	\$ 3,300	\$ 2,480	\$ 2,852	\$ 372	\$ 15.0%
Sandia National Laboratory.....	\$ 500	\$ 360	\$ 414	\$ 54	\$ 15.0%
All Others	\$ 9,361	\$ 8,960	\$ 11,389	\$ 2,429	\$ 27.1%
Total, Federal Energy Management Program	\$ 25,661	\$ 23,300	\$ 27,880	\$ 4,580	\$ 19.7%

III. Performance Summary of Program Activities: FEDERAL ENERGY MANAGEMENT PROGRAMS

Program Activity	FY 2001	FY 2002	FY 2003
Project Financing	Energy Savings Performance Contracts (ESPCs)	Energy Savings Performance Contracts (ESPCs)	Energy Savings Performance Contracts (ESPCs)
	<p>Supported regulatory requirements to update and maintain qualified list of energy service companies and prepare performance metrics and progress analyses. Focused marketing and outreach efforts on an agency-specific basis. Performed analysis to identify implementation opportunities for ESPC for Federal leased space. Increased renewable energy and distributed energy resource projects through Super ESPCs. Identified Super ESPC opportunities in small facilities, new construction and laboratories. Continued efforts to identify and implement ways to increase the size and pace of awarding Super ESPC delivery orders. Updated training materials and workshops to help prepare agency technical, contracting, legal, administrative, and management personnel to use the Super ESPC contracting vehicle. Trained approximately 360 agency personnel. Super ESPC delivery orders valued at \$120 million were</p>	<p>Continue efforts to deliver FEMP services to award Super ESPC delivery orders, which includes identifying and screening projects, preparing delivery orders and site data packages, evaluating proposals, reviewing and documenting projects. Conduct workshops to help prepare agency technical, contracting, budget, legal, administrative, and management personnel to use the Super ESPC contracting vehicle. Implement Super ESPC delivery orders valued between \$80-\$120 million.</p>	<p>Continue efforts to deliver FEMP services to award Super ESPC delivery orders, which includes identifying and screening projects, preparing delivery orders and site data packages, evaluating proposals, reviewing and documenting projects. Conduct workshops to help prepare agency technical, contracting, budget, legal, administrative, and management personnel to use the Super ESPC contracting vehicle. Implement Super ESPC delivery orders valued at between \$80 and \$120 million.</p>

III. Performance Summary of Program Activities: FEDERAL ENERGY MANAGEMENT PROGRAMS (Cont'd)

Program Activity	FY 2001	FY 2002	FY 2003
Project Financing (Cont'd)	awarded. FEMP was reimbursed nearly \$1 million in from other Federal agencies in FY 2001. (\$7,688)	FEMP estimates other Federal agency reimbursements at \$400,000 in FY 2002. (\$6,920)	FEMP estimates other Federal agency reimbursements at \$800,000 in FY 2003. (\$6,910)
	Utilities program	Utilities program	Utilities program
	Maintained and improved the effectiveness of the Federal Utility Working Group Partnership and expanded utility resource centers to assist Federal customers in developing energy-saving projects and purchasing power from renewable energy sources. Assisted Federal agencies in gaining an understanding of impacts of deregulation and utility restructuring to enable them to make informed decisions regarding commodity purchases and consumption. Through UESC, task orders valued at \$100 million were placed. (\$1,979)	Maintain the Federal Utility Partnership Working Group to assist Federal customers in developing energy-saving projects. Provide training for Federal agencies to maximize energy and cost savings and project effectiveness. Provide direct technical assistance to Federal agencies not familiar with the identification, design, and implementation of projects under utility programs. Provide information and assistance to federal agencies on changes taking place in the energy industry to enable Federal decision-makers to make well informed decisions regarding energy project implementation and commodity purchases; provide assistance in gaining an understanding of the impacts of utility restructuring on:	Lead the Federal Utility Partnership Working Group (FUPWG) in four meetings and expand FEMP's Utility Resource Centers to assist Federal customers in developing energy-saving projects and purchasing power from renewable sources. Track Federal Utility Energy Services Contracting (UESC) projects and provide support through: workshops for Federal agencies, develop and distribute guidance documents and provide direct projects support for projects. Enable Federal decision-makers to make well informed decisions regarding energy project implementation and commodity purchases; provide assistance in gaining an understanding of the impacts of utility restructuring on: energy costs, security issues at

III. Performance Summary of Program Activities: FEDERAL ENERGY MANAGEMENT PROGRAMS (Cont'd)

<u>Program Activity</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>
Project Financing (Cont'd)		energy costs, security issues at Federal sites, and the impact Federal sites have on reliability. (\$1,780)	Federal sites, and the impact Federal sites have on reliability. (\$1,780)
	FEMP estimated \$1 Million in recovered funds from agencies in FY 2001.	FEMP estimates \$400,000 in recovered funds from agencies in FY 2002.	FEMP estimates \$800,000 in recovered funds from agencies in FY 2003.
	Special Project State Grants Program	Special Project State Grants Program	Special Project State Grants Program
	Awarded grants to States under the Special Project State Grants program to provide local support to Federal installations and sites. Activities to be supported include audits and alternative financing for energy efficiency improvements. Grants of \$225,000 are planned for competitive award. These funds are included in the total Project Financing budget of \$9,667,000.	Grants consolidated under Planning, Reporting, and Evaluation section.	Grants consolidated under Planning, Reporting, and Evaluation section.
	Participants include: LBNL, NREL, PNNL, ORNL, SNL, NETL, McNeil Technologies, Aspen Systems.	Participants include: LBNL, NREL, PNNL, ORNL, SNL, NETL, McNeil Technologies, Aspen Systems.	Participants include: LBNL, NREL, PNNL, ORNL, SNL, NETL, McNeil Technologies, Aspen Systems.
Total, Project Financing	\$9,667	\$8,700	\$8,690

III. Performance Summary of Program Activities: FEDERAL ENERGY MANAGEMENT PROGRAMS (Cont'd)

<u>Program Activity</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>
Technical Guidance and Assistance	<p data-bbox="443 272 821 302">Direct Technical Assistance</p> <p data-bbox="443 350 919 1373">Assisted 100 energy efficiency, renewable energy and water conservation projects including distributed energy resources projects and provide supporting documentation for replication. Expanded water conservation program to capture savings from increasing water rates. Supported Green Energy Parks in collaboration with other EERE offices. Provided SAVEnergy audits and action plans; provided project assistance for feasibility studies, design reviews, and technical specifications. Offered assistance to industrial facilities by providing energy, waste, and productivity assessments on a plant-wide basis and energy analyses at targeted systems. FEMP provided technical assistance to agencies' efforts to implement distributed energy projects. FEMP also developed case studies of existing distributed energy projects to help agencies understand and implement these projects.</p> <p data-bbox="443 1382 919 1448">FEMP replicated biomass co-firing projects for Federal facilities</p>	<p data-bbox="957 272 1335 302">Direct Technical Assistance</p> <p data-bbox="957 350 1434 646">Provide support for at least 60 agency projects in the design, review, and implementation of energy efficiency, water conservation, and renewable projects including facility construction and renovation to identify energy and cost saving opportunities.</p>	<p data-bbox="1472 272 1850 302">Direct Technical Assistance</p> <p data-bbox="1472 350 1948 646">Provide support for at least 60 agency projects in the design, review, and implementation of energy efficiency, water conservation, and renewable projects including facility construction and renovation to identify energy and cost saving opportunities.</p>

III. Performance Summary of Program Activities: FEDERAL ENERGY MANAGEMENT PROGRAMS (Cont'd)

<u>Program Activity</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>
Technical Guidance and Assistance (Cont'd)	utilizing documentation from previous projects and expand support for combined heat and power projects at Federal facilities. Technical information was developed to help other agencies use combined heat and power and other distributed energy technologies.		
	Distributed Energy Resources/Combined Heat and Power (DER/CHP):	Distributed Energy Resources/Combined Heat and Power (DER/CHP):	Distributed Energy Resources/Combined Heat and Power (DER/CHP):
	Issued call for projects; received 80 applications and funded 20 projects.	Distribute call for projects to agencies and select up to 4 projects meeting criteria including agency support for project, cost effectiveness and value, agency funding available, cost sharing/project partners, implementation time-frame, strategic value, and large potential impact.	FEMP will provide technical assistance and direct funding to facilities to implement 10 large-scale DER/CHP projects. Technical information will be developed to help other agencies use combined heat and power and other distributed energy technologies.
	Comprehensive Assessments (formerly Peak Load Assessment):	Comprehensive Assessments:	Comprehensive Assessments:
	Assessment of Load and Energy Reduction Techniques (ALERTs) teams introduced to provide peak load assessments in response to California electricity problems. (\$5,520)	Provide customers with at least 60 energy assessments including Assessment of Load and Energy Reduction Techniques (ALERTs), SAVEnergy Audits, industrial facility assessments, and operation and maintenance assessments that	Provide customers with at least 80 energy assessments including Assessment of Load and Energy Reduction Techniques (ALERTs), SAVEnergy Audits, industrial facility assessments, and operation and maintenance assessments that

III. Performance Summary of Program Activities: FEDERAL ENERGY MANAGEMENT PROGRAMS (Cont'd)

<u>Program Activity</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>
<p>Technical Guidance and Assistance (Cont'd)</p>		<p>identify energy and cost saving opportunities. Assessment teams will also identify feasible means to implement these measures at the site, and provide follow-up assistance to facilities that received assistance in prior year. (\$4,984)</p>	<p>identify energy and cost saving opportunities. Assessment teams will also identify feasible means to implement these measures at the site, and provide follow-up assistance to facilities that received assistance in the prior year. (\$8,699)</p>
	<p>Training and Information</p>	<p>Training and Information</p>	<p>Training and Information</p>
	<p>Provided and improved training, technical information and tools to support a greater number of projects than FEMP can assist directly. Trained 5,400 students in energy efficient technologies. Published 12 technical information products.</p>	<p>Provide technical information, and tools and train 4,000 personnel to support a greater number of projects than FEMP can assist directly. Develop and publish 12 technical information products.</p>	<p>Provide technical information, and tools and train 4,000 personnel to support a greater number of projects than FEMP can assist directly. Expand operation and maintenance training. Develop and publish 12 technical information products.</p>
	<p>Through the Procurement Challenge, helped agencies acquire the most energy efficient and water conserving products. Developed and update product energy efficiency recommendations, and coordinated with the Energy Star program. Assisted the Defense Logistics Agency to issue an RFP and award a contract for a new higher efficiency roof-top air conditioner that is currently not on the market. Accelerated the development of</p>	<p>Through the Procurement Challenge, help agencies acquire the most energy efficient and water conserving products. Continue to coordinate with the Energy Star Program.</p> <p>Assist agencies in amending their guide specifications to incorporate requirements for energy efficient products.</p> <p>Assist agencies in amending their guide specifications to incorporate</p>	<p>Through the Procurement Challenge, help agencies acquire the most energy efficient and water conserving products including the list of lower standby power products. Continue to develop and update product energy efficiency recommendations, and coordinate with the EPA/DOE Energy Star program.</p> <p>Assist agencies in amending their guide specifications to incorporate</p>

III. Performance Summary of Program Activities: FEDERAL ENERGY MANAGEMENT PROGRAMS (Cont'd)

<u>Program Activity</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>
Technical Guidance and Assistance (Cont'd)	<p>improved software tools that help agencies screen for energy and water saving projects on consistent basis. Maintained essential software such as the Building Life Cycle Cost tool that implements requirements for Life Cycle Costing project analysis. Evaluated new, cost effective energy efficient, U.S. manufactured technologies that are not widely used in the Federal sector; shared results of the evaluation with Federal users. (\$2,376)</p>	<p>requirements for energy efficient products.</p> <p>Maintain essential software such as the Building Life Cycle Cost tool that implements requirements for Life Cycle Costing project analysis. (\$2,016)</p>	<p>requirements for energy efficient products.</p> <p>Maintain essential software such as the Building Life Cycle Cost tool that implements requirements for Life Cycle Costing project analysis. (\$2,343)</p>
	<p>Special Project State Grants Program</p> <p>Awarded grants to States under the Special Project State Grants program to provide local support to Federal installations and sites. Activities to be supported include audits and alternative financing for energy efficiency improvements. Grants of \$100,000 are planned for competitive award. These funds are used in combination with Project Financing, and Planning, Reporting, and Evaluation funds. These funds are included in the total Technical Guidance and Assistance budget.</p>	<p>Special Project State Grants Program</p> <p>Grants consolidated under Planning, Reporting, and Evaluation section.</p>	<p>Special Project State Grants Program</p> <p>Grants consolidated under Planning, Reporting, and Evaluation section.</p>

III. Performance Summary of Program Activities: FEDERAL ENERGY MANAGEMENT PROGRAMS (Cont'd)

Program Activity	FY 2001	FY 2002	FY 2003
Technical Guidance and Assistance (Cont'd)	Participants include: LBNL, NREL, PNNL, ORNL, SNL, McNeil Technologies, Aspen Systems.	Participants include: LBNL, NREL, PNNL, ORNL, SNL, McNeil Technologies, Aspen Systems.	Participants include: LBNL, NREL, PNNL, ORNL, SNL, McNeil Technologies, Aspen Systems.
Total, Technical Guidance and Assistance	\$7,896	\$7,000	\$11,042
Planning, Reporting, and Evaluation	<p>Planning, Reporting and Outreach</p> <p>Expanded scope of program activities in support of FEMP mission and programs to reflect mandated goals and activities including new data collection and reporting requirements for the FEMP Annual Report. These actions consolidated the energy use data of the Federal government and responded to a variety of Congressional inquiries. Analyzed potential for distributed energy resources at Federal facilities.</p> <p>Increased efforts to more actively engage the Interagency Energy Management Task Force, the 656 Committee, the Federal Energy Awards Program, and regionally</p>	<p>Planning, Reporting and Outreach</p> <p>Develop a strategic plan for targeting FEMP services at key remaining opportunities in the Federal sector. Update Secretarial performance plan and status reports.</p> <p>Facilitate one or two meetings with senior officials and the 656 Committee and the Presidential Management Council, and provide support for the Federal Energy</p>	<p>Planning, Reporting and Outreach</p> <p>Implement a strategic plan for targeting FEMP services at key remaining opportunities in the Federal sector. Update Secretarial performance plan and status reports. Promote the “whole building” design approach in the Federal community to increase energy security. Update Secretarial performance plan and status reports.</p> <p>Facilitate one or two meetings with senior officials and the 656 Committee and the Presidential Management Council, and provide support for the Federal Energy</p>

III. Performance Summary of Program Activities: FEDERAL ENERGY MANAGEMENT PROGRAMS (Cont'd)

<u>Program Activity</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>
Planning, Reporting, and Evaluation (Cont'd)	focused meetings to bring together agency energy managers, procurement officials, and energy product and service suppliers to more productively participate in energy efficiency, water conservation and renewable energy programs.	Management Advisory Committee. Collect and publish data for the Annual Report to Congress, respond to inquiries and provide support to ensure accuracy in reporting and analysis of trends.	Management Advisory Committee. Collect and publish data for the Annual Report to Congress, respond to inquiries and provide support to ensure accuracy in reporting and analysis of trends.
	Reviewed and revised existing policy guidance to support FEMP activities as new projects are initiated under fee for service agreements with outside agencies.	Produce and disseminate technical and non-technical energy management material, distributed through FEMP- sponsored events (e.g., technical assistance and training workshops), EERE's information clearinghouse, and non-federal conferences, workshops and seminars and individual requests from Federal agencies, state and local governments and the private sector.	Enhance FY 2002 strategic communication activities that target federal and non-federal organizations by replicating projects and partnerships conducted on a broader scale. As a result, FEMP will coordinate the exchange of energy management information on a wide scale with the intent that such interactions become practice in the Federal government.
	Reevaluated and made enhancements on a web-based database that will provide accurate and up-to-date information. The database will support reporting of energy efficiency and environmental impacts.		
	Maintained a comprehensive energy efficiency outreach program to allow easy access to FEMP's energy efficiency tools and resources.		
Special Project State Grants Program	Special Project State Grants Program	Special Project State Grants Program	Special Project State Grants Program
Awarded grants to states under the	Award \$500,000 in grants to states	Award \$500,000 in grants to states	Award \$500,000 in grants to states

III. Performance Summary of Program Activities: FEDERAL ENERGY MANAGEMENT PROGRAMS (Cont'd)

Program Activity	FY 2001	FY 2002	FY 2003
Planning, Reporting, and Evaluation (Cont'd)	Special Project State Grants program to provide local support to Federal installations and sites. Support included audits and alternative financing for energy efficiency improvements. Grants of \$75,000 were competitively awarded. Projects awarded by FEMP totaled \$400,000. Participants include: LBNL, NREL, PNNL, ORNL, SNL, McNeil Technologies. (\$2,777)	under the Special Project State Grants program to provide local support to Federal installations and sites. Participants include: LBNL, NREL, PNNL, ORNL, SNL, McNeil Technologies. (\$2,340)	under the Special Project State Grants program to provide local support to Federal installations and sites. Participants include: LBNL, NREL, PNNL, ORNL, SNL, McNeil Technologies. (\$2,803)
Total, Planning, Reporting, and Evaluation	\$2,777	\$2,340	\$2,803
Technical/Prog. Management Support	Provide critical technical and program management support services. (McNeil Technologies) (\$887)	Provide critical technical and program management support services. (Including McNeil Technologies, TMS and Energetics) (\$860)	Provide critical technical and program management support services. (Including McNeil Technologies, TMS and Energetics) (\$890)
Total, Technical/Prog. Mgmt. Support	\$887	\$860	\$890
Program Direction	The following is a breakdown of the funding by Object Class:	The following is a breakdown of the funding by Object Class:	The following is a breakdown of the funding by Object Class:

III. Performance Summary of Program Activities: FEDERAL ENERGY MANAGEMENT PROGRAMS (Cont'd)

<u>Program Activity</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>
Program	11.9 Personnel compensation	11.9 Personnel compensation	11.9 Personnel compensation
Direction (Cont'd)	\$ 2,433	\$2,175	\$ 2,262
	12.1 Civilian personnel benefits	12.1 Civilian personnel benefits	12.1 Civilian personnel benefits
	\$535	\$480	\$565
	21.0 Travel and transportation of persons \$185	21.0 Travel and transportation of persons \$160	21.0 Travel and transportation of persons \$185
	25.0 Other contractual services \$100	25.0 Other contractual services \$ 1,585	25.0 Other contractual services \$1,443
	<p>Provided for salaries, benefits, and travel for usage of 27 FTEs to manage and support the FEMP program activities (Budgeted 32 FTE). With authority granted by Congress in the Omnibus Bill, P.L. 105-277 signed by the President on October 21, 1998, FEMP may use recovered funds for all necessary program expenses, including contractor support and resources need to achieve greater energy savings in Federal facilities. Limited appointment Federal personnel were planned to be hired to support project financing and technical assistance programs at HQ, GO and RO's to be paid from reimbursed funds.</p> <p>Also supported a systematic analysis of staffing needs within the context of current and projected R&D program missions, and the</p>	<p>The request provides for salaries, benefits, and travel for 27 FTEs to manage and support the FEMP program activities. With authority granted by Congress in the Omnibus Bill, P.L. 105-277 signed by the President on October 21, 1998, FEMP may use recovered funds for all necessary program expenses, including contractor support and resources need to achieve greater energy savings in Federal facilities. Limited appointment Federal personnel are planned to be sustained to support project financing and technical assistance programs at HQ, GO and RO's to be paid from reimbursed funds. (\$2,815)</p>	<p>The request provides for salaries, benefits, and travel for 27 FTEs to manage and support the FEMP program activities. (\$3,012)</p> <p>With authority granted by Congress in the Omnibus Bill, P.L. 105-277 signed by the President on October 21, 1998, FEMP may be reimbursed by other agencies for all necessary program expenses, including contractor support and resources needed to achieve greater energy savings in Federal facilities. Limited appointment Federal personnel will be paid from these non-DOE funds to support financing and technical assistance programs at HQ, GO and RO's.</p>

III. Performance Summary of Program Activities: FEDERAL ENERGY MANAGEMENT PROGRAMS (Cont'd)

Program Activity	FY 2001	FY 2002	FY 2003
Program Direction (Cont'd)	<p>development of a comprehensive plan that focused on building and sustaining a talented and diverse workforce of R&D Technical Managers. The total obligational authority of \$3,253,000 for Program Direction includes \$260,000 from FY 2000 unobligated carryover. (\$2,993)</p>		
	TRANSFER FROM: Planning, Reporting, and Evaluation and Program Direction		
	Management Support Services	Management Support Services	Management Support Services
	<p>Consistent with other DOE programs under the jurisdiction of the Interior and Related Agencies Appropriations Committees, the Energy Conservation programs provide funding for Management Support Services, which includes activities such as improving the effectiveness, efficiency and economy of management and general administrative services. These activities are critical to the planning, formulation, and execution of the Energy Conservation programs.</p>	<p>Consistent with other DOE programs under the jurisdiction of the Interior and Related Agencies Appropriations Committees, the Energy Conservation programs provide funding for Management Support Services, which includes activities such as improving the effectiveness, efficiency and economy of management and general administrative services. These activities are critical to the planning, formulation, and execution of the Energy Conservation programs. The increase in FY 2002 helps to support activities under the</p>	<p>Consistent with other DOE programs under the jurisdiction of the Interior and Related Agencies Appropriations Committees, the Energy Conservation programs provide funding for Management Support Services, which includes activities such as improving the effectiveness, efficiency and economy of management and general administrative services. These activities are critical to the planning, formulation, and execution of the Energy Conservation programs.</p>

III. Performance Summary of Program Activities: FEDERAL ENERGY MANAGEMENT PROGRAMS (Cont'd)

Program Activity	FY 2001	FY 2002	FY 2003
Program Direction (Cont'd)	(McNeil Technologies). (\$1,441)	reimbursable authority. (McNeil Technologies, Energetics and TMS). (\$1,585)	(McNeil Technologies, Energetics and TMS). (\$1,443)
Total, Program Direction	\$4,434	\$4,400	\$4,455
TOTAL, OFFICE OF FEDERAL ENERGY MANAGEMENT PROGRAMS	\$25,661	\$23,300	\$27,880

**DEPARTMENT OF ENERGY
FY 2003 CONGRESSIONAL BUDGET REQUEST**

**ENERGY EFFICIENCY AND RENEWABLE ENERGY
ENERGY CONSERVATION
(Tabular Dollars in Thousands, Narrative in Whole Dollars)**

**POWER TECHNOLOGIES
PROGRAM MISSION**

Mission: The Distributed Energy Resources (DER) Program leads a national effort to develop a flexible, smart, and secure energy system by integrating clean, efficient, reliable, and affordable distributed energy technologies; documenting the energy, economic, and environmental benefits of the expanded use of distributed energy resources; and supporting the development of regional or state energy strategies, including distributed generation deployment.

Strategic Context: Distributed energy refers to the production of electricity and other forms of usable energy at or near the point of distribution or use, in industry, buildings, or district energy systems to complement central power stations. DOE's distributed energy generation initiative goal is to develop the cooperation and technology necessary to enable these interdependent systems to provide nearly 20 percent of the Nation's new power by 2020. Moving energy supplies closer to the point of end use through such technologies as microturbines, reciprocating engines, small gas turbines, and fuel cells, promises important economic, environmental, and reliability advantages. The direct economic benefits of such systems include efficient and cost-effective power resources, power in locations where there are no utility services (e.g. rural Alaska), maximum use of recoverable energy, and the sale of surplus power to meet electricity demand or provide peaking power. Thermally activated technologies include cooling, dehumidification, humidification, water heating, steam heating, and drying.

Strategic Approach: The DER Program is focusing on technology development and systems integration research activities. This strategic approach includes efficiency improvements, cost reductions, emission reductions, adaptation for fuel flexibility, and development of performance standards, environmental standards, and fire safety codes and standards for electricity-generation and combined heat and power technologies. The DER program combines the energy efficiency activities from the Interior funded sectors with the Office of Energy Efficiency and Renewable Energy and complements the Energy and Water Development research activities within the Office of Power Technologies.

GPRA: The Distributed Energy Resources Program’s research, development, and deployment efforts will help contribute over 60,000 megawatts (20% of new capacity additions) of distributed energy capacity by 2020. Distributed energy capacity in 2005 is projected to be over 20,000 megawatts, compared to a 1997 baseline of less than 15,000 megawatts. The program’s supporting goal is to increase the market competitiveness of distributed energy resource technology by reducing cost, limiting emissions, and increasing efficiency of electricity generation, and providing for fuel flexibility. Thus, distributed energy technologies directly support the national need for affordable and reliable electricity generation, transmission, and use. The program also aims to reduce the energy intensity of buildings, business, and industry by promoting the use of combined heat and power and load management strategies with energy systems.

Benefits

Distributed energy resources offer unique benefits to power companies and customers that are not available from centralized electricity generation. Distributed power technologies are inherently modular, thereby enabling capacity additions and reductions in small increments that are closely matched with demand. Distributed energy resources also reduce the load at the distribution level of the transmission and distribution grid, thus helping increase the reliability of the electricity system. In addition, it is much cheaper and easier to meet a growing local demand for electricity by adding new generators close to the load than by adding transmission capacity. This is partly because of the lengthy permitting process required for new transmission lines. Modular power plants-using local resources (e.g. natural gas, biomass, landfill gas, propane), for example, can be approved and sited close to a new load in a matter of months, versus several years for transmission line upgrades. Transmission networks are also inherently expensive to build and maintain. The projected benefits of the Distributed Energy Resources Program are shown in the table below.

GPRA METRICS FOR COMBINED HEAT AND POWER

	2005	2010	2020
Total Primary Energy Displaced (Trillion Btu)	178	405	1,029
Energy Costs or Savings (Millions of \$)	860	2,000	5,030
Carbon Equivalent Emissions Displaced (MMTCE)	4	11	30

Note: Program benefit projections are developed through an impact analysis process undertaken annually by EERE, based on assumptions for future energy markets derived from EIA's annual energy outlook. EERE’s sectors analyze the impacts their programs will have on energy savings, energy cost savings, and carbon reductions if all program goals are met, and future energy markets develop as expected. A sample of program benefit estimates are externally reviewed by Arthur D. Little.

Program Strategic Performance Goal

The following Program Strategic Goal (PSPG) has been established for the Distributed Energy Resources Program:

ER1-9: Distributed Energy Resources

Distributed Energy Resources (DER) R&D activities will increase the share of new DER electricity-generating capacity from 5 percent in 2000 to 7 percent in 2005.

Performance Indicator

Megawatts of distributed energy generating capacity (located at point of use).

Annual Performance Results and Targets

FY 2001 Results	FY 2002 Target	FY 2003 Proposed Target
<ul style="list-style-type: none"> Completed 5,000 hour durability, performance, and emissions testing of the Mercury 50 Advanced Turbine System engine. (Advanced Turbine Systems component prior to formation of the DER program) 	<ul style="list-style-type: none"> Demonstrate a microturbine package (highly efficient for reducing peak loads) at a University site. <p><i>Historical Reference</i></p> <ul style="list-style-type: none"> Complete preliminary systems designs for a 40 percent efficient microturbine and a low emission reciprocating engine. Demonstrate an advanced ceramic combustor liner in an industrial gas turbine for over 16,000 hours service. Complete test and evaluation of a large absorption chiller. 	<ul style="list-style-type: none"> Will complete the 12 Beta Field Test Units of high efficiency natural gas fired heat pump (60% better than pulse combustion furnace) and install at field test sites hosted by major U.S. Gas Utilities. Will complete 4,000 hour field test of ceramic composite shroud components to demonstrate performance and emission benefits to a gas turbine. Will demonstrate 5 percentage point increase in efficiency for an advanced microturbine system.

DEPARTMENT OF ENERGY
 FY 2003 CONGRESSIONAL BUDGET REQUEST
 ENERGY CONSERVATION
 (Dollars in Thousands)

POWER TECHNOLOGIES

PROGRAM FUNDING PROFILE

Program Activity	FY 2001 Comparable	FY 2002 Comparable	FY 2003 Request	\$ Change	% Change
Distributed Energy Resources	\$ 45,899	\$ 61,896	\$62,284	\$388	0.1%
Management and Planning	\$ 1,447	\$ 1,950	\$1,620	\$-330	-17.0%
TOTAL	\$ 47,346	\$ 63,846	\$63,904	\$58	0.1%

Summary

Operating Expenses	\$ 47,346	\$ 63,846	\$63,904	\$58	0.1%
Total Program	\$ 47,346	\$ 63,846	\$63,904	\$58	0.1%

Staffing (FTEs)	Actual	Budgeted	Budgeted
HQ FTEs	5	5	5
Field FTEs	6	3	5
Total FTEs	11	8	10

Actual Full-Time Equivalent (FTE) usage is cited for FY 2001 while budgeted staffing numbers are displayed in the FY 2002 and FY 2003 columns. For comparability purposes, budgeted FY 2001 FTE were HQ 5, Field 3 and total 8.

Authorizations:

P.L. 94-163, Energy Policy and Conservation Act; P.L. 94-385, Energy Conservation and Production Act; P.L. 95-619, National Energy Conservation Policy Act; P.L. 100-615, Federal Management Improvement Act; P.L. 102-486, Energy Policy Act

DEPARTMENT OF ENERGY
 FY 2003 CONGRESSIONAL BUDGET REQUEST
 ENERGY CONSERVATION
 (Dollars in Thousands)

POWER TECHNOLOGIES

SUMMARY OF CHANGES

	FY 2003 Request
FY 2002 Enacted	\$ 63,846
Non-Discretionary	
- Increase for Federal Pay Raise and Locality Pay	27
FY 2003 Base	\$ 63,873
<u>Power Technologies:</u>	
- Distributed Energy Resources - supports high priority DER activities in technology research and development, such as fuel cells	388
- Management and Planning. - reduce management support services	-357
FY 2003 Congressional Budget Request	\$ 63,904

POWER TECHNOLOGIES
(Dollars in Thousands)

DISTRIBUTED ENERGY RESOURCES

I. Mission Supporting Goals and Objectives

Mission: To lead a national effort to:

- Develop a flexible, smart, and secure energy system by integrating the “next generation” of clean, efficient, reliable, and affordable distributed energy technologies
- Document the energy, economic, and environmental benefits of the expanded use of distributed energy resources
- Support the development of regional or state energy strategies including distributed generation deployment.

Summary: The Distributed Energy Resources Program is developing a portfolio of advanced on-site, small-scale, and modular energy generation, and delivery systems for industrial, commercial, residential, and utility applications. The scope of program activities includes technology base activities in advanced materials, combustion, and communications and controls; engineering design activities for components, subsystems, and systems; field testing and verification activities for identifying and resolving systems integration issues; codes and standards development activities for siting and permitting distributed energy systems; and education and outreach activities to inform policy makers, business executives, and interest groups about distributed energy resources and the regulatory and institutional barriers that interfere with implementation. The intent is to expand the array of energy choices for clean, efficient, and affordable on-site energy generation, including electric power, thermal energy, and combined heat and power. The strategy is to build R&D partnerships with industry and others to make these systems more energy efficient, reliable, and affordable to consumers than the energy services they currently receive, and for these systems to have better power quality and lower environmental impacts. The ultimate aim is to improve the energy and environmental performance of the distributed technologies, and increase the level of technology integration among on-site energy generation alternatives so that the Nation can achieve a more flexible and smarter energy system. This new energy infrastructure will operate seamlessly alongside the existing system to enable consumers to make wiser energy choices and implement customized solutions, thereby boosting the Nation’s economic productivity, energy efficiency, and environmental stewardship. Distributed energy resources (DER) must be fuel flexible and clean.

Context: Of the 105 recommendations in the President's National Energy Policy (NEP), more than 20 affect distributed energy resources. For example, microturbines are referred to as a technology that offers a number of "significant advantages" over currently available small-scale power generators. These include having a small number of moving parts, compact size and light weight, optimal efficiency, lower emissions and electricity costs, and the ability to use waste fuels. In fact, "microturbines could easily capture a significant share of the distributed generation market" (page 6-4 of the NEP). Another example is combined heat and power (CHP), which is mentioned in the National Energy Policy in several places. CHPs' environmental benefits are discussed, as well as the technology's efficiency and cost savings in industrial boilers, energy systems, and small scale buildings applications. The NEP recognizes CHP as "one of a group of clean, highly reliable distributed energy technologies that reduce the amount of electricity lost in transmission while eliminating the need to construct expensive power lines to transmit power from large central power plants" (page 3-5). Recommendations on CHP include encouraging increased energy efficiency through CHP projects, working with local and State governments to promote the use of well-designed CHP at brownfields sites, and promoting CHP through flexibility in environmental permitting and streamlining the permitting process.

Several regulatory and institutional barriers - being implemented by Federal, State, and local government agencies, and electric utilities- interfere with the expanded installation of distributed energy systems. The primary market targets include commercial buildings, merchant facilities, industrial plants, Federal facilities, district energy systems, and utility transmission and distribution systems. To address the barriers, the program has initiated analysis, education, and outreach activities, in concert with industry groups and government agencies, to support the development of better environmental siting and permitting regulations, more effective building codes and standards, and more open and competitive utility markets and business practices. The aim is to streamline procedures, accelerate distributed energy project development timetables, and lower unnecessary costs of regulatory compliance. The program is working with manufacturers and building code officials to ease the process for using fuel cells in buildings for electricity and combined heat and power applications. The program recently held several workshops with building code officials in California to expedite their treatment of distributed energy technologies and accelerate installations to meet the emergency requirements for new electric capacity. Several more workshops have been planned for different areas of the country.

Strategy: The program operates a network of partnerships with industry, States, laboratories, universities, and other Federal offices and agencies. Collaboration is taking place on cost-shared R&D projects, development of codes and standards, and information dissemination activities. Federal partnerships include participation with the Federal Energy Management Program (FEMP) to promote and install DER at Federal facilities and the State Energy Program to increase awareness, promote benefits, and remove barriers to DER. There is also interaction with the EPA to work on removing the barriers to the siting and permitting CHP systems. State program partnerships include California Energy Commission (CEC), New York State Energy Research and Development Agency (NYSERDA), and others. The program is working with National Labs such as ORNL, NREL, SNL, PNNL, and NETL to develop an integrated national laboratory support effort that assembles the capabilities of the various labs and makes them available to manufacturers and end-users for testing and evaluation of the performance and integration of the various distributed energy systems.

Long Term Goals and Benefits:

Distributed Generation Technology Development

The aim of this sub-program is the development of “next generation” distributed energy technologies (e.g., microturbines, reciprocating engines, industrial gas turbines, thermally activated cooling and humidity control devices, combined heat and power systems) that are cleaner and more reliable, fuel efficient, fuel flexible and affordable than existing equipment.

Goals

- Increase the market competitiveness of DER technology by reducing cost and increasing efficiency of electricity generation.
- Develop fuel flexible technologies.
- Reduce emissions while maintaining performance.

Objectives

- By 2007 advanced microturbines and reciprocating engines will have undergone successful 8,000 hour field tests and be ready for commercial scale-up by manufacturers
- By 2007 advanced microturbine system designs and components will be at least 30 percent more efficient than 2001 models, which are 28 percent efficient
- By 2007 advanced reciprocating engines and components will be at least 25 percent more efficient than 2001 models, which are 38 percent efficient
- By 2010 building fuel cells (PEMs) and components will cost at least 30 percent less than 2001 models for commercial and industrial applications
- By 2010 advanced materials, components, and subsystems for industrial gas turbines that have at least 65 percent lower NO_x emissions will be available

End Use Systems Integration and Interface

The aim of this sub-program is the development of technologies, tools, and techniques to enable prospective users of distributed energy systems - regardless of the type of technology - to install, operate, control, and maintain those systems in an optimized manner to meet the needs of their facilities and business operations, and those of the electric power and natural gas utilities to which the systems are interconnected. This includes emphasis on systems integration of individual technologies into packaged systems for addressing national needs for power quality, power reliability, peak shaving, back up power, and combined heat and power.

Goals

- Support the national need for clean, affordable, and reliable electricity generation and use.
- Reduce the energy intensity of businesses and industry by promoting the use of combined heat and power.
- Increase the efficiency of facilities through deployment of integrated electrical, heating, cooling, and ventilation systems.

Objectives

- By 2010 more streamlined and less costly siting, permitting, and interconnecting processes for distributed energy developers
- By 2010 greater commercial availability of integrated on-site generation and combined heat and power packaged systems
- By 2010 combined heat and power installations will have doubled compared to 1998 levels
- By 2010 thermally activated heating, cooling, and humidity control systems will be commercially available in integrated, optimized packaged systems with power generation for commercial buildings and industrial facilities
- By 2010 building owners, industrial plant managers and federal facility managers will have the information and analytical tools they need to install distributed energy systems with a minimum of regulatory delays
- By 2010 technologies, tools, and techniques will be available for effective communications and control of distributed energy devices for end users and utility applications to allow for smart operation and secure energy services

Program Strategic Performance Goal

ER1-9: Distributed Energy Resources

Distributed Energy Resources (DER) R&D activities will increase the share of new DER electricity-generating capacity from 5 percent in 2000 to 7 percent in 2005.

Annual Performance Results and Targets

FY 2001 Results	FY 2002 Target	FY 2003 Proposed Target
<ul style="list-style-type: none"> Completed 5,000 hour durability, performance, and emissions testing of the Mercury 50 Advanced Turbine System engine. (Advanced Turbine Systems component prior to formation of the DER program) 	<ul style="list-style-type: none"> Demonstrate a microturbine package (highly efficient for reducing peak loads) at a University site. <p><i>Historical Reference:</i></p> <ul style="list-style-type: none"> Complete preliminary systems designs for a 40 percent efficient microturbine and a low emission reciprocating engine. Demonstrate an advanced ceramic combustor liner in an industrial gas turbine for over 16,000 hours service. Complete test and evaluation of a large absorption chiller. 	<ul style="list-style-type: none"> Will complete the 12 Beta Field Test Units of high efficiency natural gas fired heat pump (60% better than pulse combustion furnace) and install at field test sites hosted by major U.S. Gas Utilities. Will complete 4,000 hour field test of ceramic composite shroud components to demonstrate performance and emission benefits to a gas turbine. Will demonstrate 5 percentage point increase in efficiency for an advanced microturbine system.

II. A. Funding Table: DISTRIBUTED ENERGY RESOURCES

Program Activity	FY 2001 Comparable	FY 2002 Comparable	FY 2003 Request	\$ Change	% Change
Distributed Generation Technology Development	\$ 43,903	\$ 55,896	\$ 42,896	\$ -13,000	-23.3%
End-Use Systems Integration and Interface	\$ 1,996	\$ 6,000	\$ 19,388	\$ 13,388	223.1%
Total, Distributed Energy Resources	\$ 45,899	\$ 61,896*	\$62,284*	\$ 388	0.6%

II. B. Laboratory and Facility Funding Table: DISTRIBUTED ENERGY RESOURCES

	FY 2001 Comparable	FY 2002 Comparable	FY 2003 Request	\$ Change	% Change
Argonne National Lab (East)	\$ 575	\$ 575	\$ 575	\$ 0	0.0%
Brookhaven National Lab	\$ 500	\$ 500	\$ 500	\$ 0	0.0%
National Renewable Energy Lab	\$ 2,060	\$ 2,060	\$ 2,060	\$ 0	0.0%
Oak Ridge National Lab	\$ 7,867	\$ 13,867	\$ 13,867	\$ 0	0.0%
Sandia National Laboratories	\$ 100	\$ 100	\$ 100	\$ 0	0.0%
All Other	\$ 34,797	\$ 44,794	\$ 45,182	\$ 388	0.9%
Total, Distributed Energy Resources	\$ 45,899	\$ 61,896	\$ 62,284	\$ 388	0.6%

* Estimated SBIR/STTR contributions will be \$ 200,000 for FY 02 and FY03.

III. Performance Summary of Program Activities: DISTRIBUTED ENERGY RESOURCES (Cont'd)

Program Activity	FY 2001	FY 2002	FY 2003
<p>Distributed Generation Technology Development</p>	<p>TRANSFER FROM: Building Technology, State, and Community Sector/ Building Research and Standards/ Equipment, Materials, and Tools/ Cogeneration/Fuel Cells</p>	<p>The FY 2002 budget request combined the following activities under Advanced Generation and Thermally Activated Technologies</p>	
	<p>Building Fuel Cells Conducted package systems studies for fuel cell combined heat and power applications. Completed the design competition for a 50 kW fuel cell for buildings and initiate one or two of the design concepts for a high temperature PEM fuel cell system. Initiated the next phase of the reformer design and fabricate an engineering prototype for laboratory testing, incorporate it into a 50kW PEM fuel cell design. (\$5,440)</p>	<p>Stationary Fuel Cells Finalize the design and build a laboratory prototype Natural Gas Fuel Processor with CO clean-up capability for high temperature stationary PEM fuel cell. Fabricate laboratory prototype of a Membrane-Electrode-Assembly with advanced high temperature membranes for PEM fuel cell. Complete phase II design of a 50kW high temperature PEM fuel cell incorporating cooling, heating and power (CHP) principles for recoverable heat. (\$5,500)</p>	<p>Stationary Fuel Cells Will initiate testing of laboratory prototype for Natural Gas Fuel Processor with CO clean-up capability for high temperature stationary PEM fuel cell. Will begin testing of laboratory prototype of a Membrane-Electrode-Assembly with advanced high temperature membranes for PEM fuel cell. Based on Phase II designs, will begin development of prototype 50kW high temperature PEM fuel cell incorporating cooling, heating and power (CHP) principles for recoverable heat. (\$7,500)</p>

III. Performance Summary of Program Activities: DISTRIBUTED ENERGY RESOURCES (Cont'd)

Program Activity	FY 2001	FY 2002	FY 2003
Distributed Generation Technology Development (Cont'd)	<p data-bbox="445 298 821 480">TRANSFER FROM: Industry Sector/ Industries of the Future (Crosscutting)/ Distributed Generation/ Industrial Power Generation</p> <p data-bbox="445 526 871 748">Industrial Gas Turbines Continued durable, cost effective low emissions technology research and development to demonstrate emissions levels of less than 7 ppm NO_x for advanced gas turbines.</p> <p data-bbox="445 794 871 1166">Supported R&D that demonstrated innovative high temperature materials such as coatings and ceramics in gas turbines to achieve endurance levels of greater than 8,000 hours. Investigated the oxidation/water vapor degradation of ceramic components for gas turbines and developed techniques necessary to mitigate. (\$4,451)</p>	<p data-bbox="961 526 1388 824">Industrial Gas Turbines Continue durable cost effective low emissions technology research and development to field test emission levels of less than 7 ppm NO_x for advanced gas turbines. Demonstrate technical feasibility of achieving low emissions under rig conditions.</p> <p data-bbox="961 870 1388 1203">Continue R&D that demonstrates innovative high temperature materials such as coatings and ceramics in gas turbines to achieve endurance levels of greater than 8,000 hours. Initiate field testing of advanced thermal barrier coating and ceramic shrouds in gas turbine engines. (\$4,500)</p>	<p data-bbox="1482 488 1908 976">Industrial Gas Turbines Will field and rig test cost effective low emissions technologies with the goal of less than 7 ppm NO_x for advanced gas turbines. Will continue research and development on promising low emissions technologies and will develop perspective new technologies including fuel flexibility. Will investigate long-term durability of developed low emission technologies.</p> <p data-bbox="1482 1024 1908 1435">Will continue R&D to demonstrate innovative high temperature materials such as coatings and ceramics in gas turbines to improve endurance levels and push beyond 8,000 hours. Will continue testing of advanced ceramic components and add additional components to advanced turbine field tests. Based on field test results, will modify material systems to improve</p>

III. Performance Summary of Program Activities: DISTRIBUTED ENERGY RESOURCES (Cont'd)

Program Activity	FY 2001	FY 2002	FY 2003
Distributed Generation Technology Development (Cont'd)	<p data-bbox="443 565 877 1166">Microturbines Continued the R&D program for advanced microturbines with goals of over 40 percent efficiency, single digit emissions, fuel flexibility and 10 percent reduction in costs. Manufacturers began design and development of critical components and subcomponents for the second generation microturbines. Research focused on recuperator improvements, combustion systems, reliability and durability improvements on critical components such as bearings. (\$6,924)</p> <p data-bbox="443 1214 877 1435">Reciprocating Engines Continued to support the development of the advanced reciprocating engines systems (ARES) program to develop a 50 percent efficient reciprocating</p>	<p data-bbox="961 565 1396 1052">Microturbines Continue efforts on second generation of advanced microturbines to achieve efficiencies of at least 40 percent, single digit emissions, fuel flexibility, and 10 percent reduction in costs. Fabricate and begin testing of key critical components and subsystems such as recuperators, turbine, combustor, gas compressor, and control package to improve efficiency, reliability, and durability. (\$11,000)</p> <p data-bbox="961 1175 1396 1435">Reciprocating Engines Continue to support the development of the advanced reciprocating engines systems (ARES) program to develop a 50 percent efficient reciprocating engine with single digit emissions and 10 percent reduction</p>	<p data-bbox="1480 298 1915 441">durability and life. Will investigate additional components and materials to improve efficiency and emissions in gas turbine engines. (\$4,500)</p> <p data-bbox="1480 490 1915 1052">Microturbines Will continue efforts on second generation of advanced microturbines to achieve efficiencies of at least 40 percent, single digit emissions, fuel flexibility, and 10 percent reduction in costs. Will continue fabrication and testing of key critical components and subsystems such as recuperators, turbine, combustor, and power electronics to improve efficiency, reliability, and durability. Will initiate subsystem integration tasks. (\$7,000)</p> <p data-bbox="1480 1140 1915 1435">Reciprocating Engines Will continue to support the development of the advanced reciprocating engines systems (ARES) program to develop a 50 percent efficient reciprocating engine with single digit emissions and 10 percent reduction in costs.</p>

III. Performance Summary of Program Activities: DISTRIBUTED ENERGY RESOURCES (Cont'd)

Program Activity	FY 2001	FY 2002	FY 2003
Distributed Generation Technology Development (Cont'd)	<p>engine with single digit emissions and 10 percent reduction in costs. Engine manufacturers began design of advanced engines system, including key sub-systems such as combustion, ignition, fuel delivery. (\$2,966)</p>	<p>in costs. Engine manufacturers begin development and testing of specific engine components and subcomponents. Pre-competitive R&D continues with National Laboratories. Continue partnership with National Energy Technology Laboratory on reciprocating engine University research program. (\$11,000)</p>	<p>Engine manufacturers will continue development and testing of specific engine components and subcomponents. Pre-competitive R&D will also continue with National Laboratories. Will continue partnership with National Energy Technology Laboratory on reciprocating engine University research program. (\$10,000)</p>
	<p>TRANSFER FROM: Industry Sector/ Industries of the Future (Crosscutting)/ Enabling Technologies/ Engineering Ceramics/CFCCs</p>		
	<p>Technology Base - Advanced Materials and Sensors The team of industry, national laboratories, and universities collaborated to develop, test and demonstrate advanced materials, including continuous fiber ceramic composites (CFCC) with superior high temperature strength and fatigue resistance, corrosion</p>	<p>Technology Base - Advanced Materials and Sensors Continue developing, testing, and integrating advanced materials with superior high temperature strength and fatigue, corrosion, and wear resistance for combustor liners and other applications in distributed generation systems. Develop and test CFCC for applications such as combustor liners and shrouds in gas turbine applications. CFCC</p>	<p>Technology Base - Advanced Materials and Sensors The technology base will continue to develop and test enabling technologies such as materials, information technologies, sensors and power electronics for distributed generation systems. Will continue development and testing of advanced materials with superior high temperature strength and fatigue, corrosion, and wear</p>

III. Performance Summary of Program Activities: DISTRIBUTED ENERGY RESOURCES (Cont'd)

Program Activity	FY 2001	FY 2002	FY 2003
Distributed Generation Technology Development (Cont'd)	<p>resistance, and wear resistance for various applications in gas turbine engines.</p> <p>Long term testing and exposure of representative advanced materials performed under application conditions for hundreds to thousands of hours. These long term exposures allowed for the collection of data to support the benefits of using advanced materials and support adoption and commercialization.</p> <p>Developed and tested advanced ceramics, coatings and high temperature metals for the next-generation microturbines. As turbine inlet temperatures are increased, new materials for hot section components such as rotors and combustor liner and recuperators are needed.</p> <p>Initiated development of a roadmap and strategic plan for research and development on communications and control technologies for the integration of distributed energy</p>	<p>components begin field testing under commercial operating conditions for at least 4,000 hours.</p> <p>Develop and test advanced ceramics, coatings and high temperature metals for the next-generation microturbines. New materials for hot section components such as rotors and combustor liner and recuperators are under development. Material properties and durability in microturbine environments, including temperature, pressure and water vapor are determined. Testing of next generation candidate recuperator materials is initiated.</p> <p>As the penetration of distributed generation technologies increase throughout the electric system, communication and control functional requirements will need to be developed to ensure that the distributed generation technologies can contribute to the grid adequacy and security by providing sufficient generation resources and can communicate in a coordinated manner. Advanced communications</p>	<p>resistance for hot section components and other applications in distributed generation systems.</p> <p>Will develop and test advanced ceramics, coatings and high temperature metals for the next-generation microturbines. New materials for hot section components such as rotors and combustor liner and recuperators will be developed. Material properties and durability in microturbine environments, including temperature, pressure and water vapor will be determined by laboratory experiments and high and medium velocity rigs. Next generation candidate recuperator materials will be evaluated in real microturbine environments. (\$8,256)</p>

III. Performance Summary of Program Activities: DISTRIBUTED ENERGY RESOURCES (Cont'd)

Program Activity	FY 2001	FY 2002	FY 2003
Distributed Generation Technology Development (Cont'd)	resources into energy delivery systems. Identified key research and development priorities with Industry. (\$8,159)	and controls will need to be cost effective and reliable with “plug and play” capability, including flexibility to handle different types of distributed generation technologies with seamless integration. Initiate activities with industry on development of communications architecture and functional requirements (\$8,256)	
	TRANSFER FROM: Building Technology, State, and Community Sector/ Building Research and Standards/ Equipment, Materials, and Tools/ Furnaces & Boilers/ Combustion Research		
	<p>Combustion Research</p> <p>Fuel flexibility is important in combustion systems for distributed energy resource applications, including combined heat and power for buildings. Burners and integrated systems that are smaller,</p>	<p>Fuel Flexibility</p> <p>Continue to improve the quality of oil combustion systems and fuel flexibility for distributed energy resource applications, including combined heat and power. (\$500)</p>	<p>Fuel Flexibility</p> <p>Will continue to improve the quality of oil combustion systems and fuel flexibility for distributed energy resource applications, including combined heat and power. Will begin testing of an advanced oil combustion system in a modified microturbine. (\$500)</p>

III. Performance Summary of Program Activities: DISTRIBUTED ENERGY RESOURCES (Cont'd)

Program Activity	FY 2001	FY 2002	FY 2003
Distributed Generation Technology Development (Cont'd)	<p>have higher reliability and use improved quality heating oil (lower sulfur and nitrogen contents) need to be developed. Working with the Oil Heat/Combustion Industry, completed field testing of the low emissions, high performance Fan Atomized Burner (FAB). (\$494)</p>	<p>Thermally Activated Technologies Using the viable heat energy rejected from the making of electricity, high efficiencies can be achieved and package technologies can be integrated and optimized for end-use application. By using the viable rejected heat energy from the making of electricity, these packaged systems will achieve efficiencies of 75 percent or higher.</p>	<p>Thermally Activated Technologies Will begin field testing several GAX residential heat pumps. Will complete laboratory testing of Solid/vapor “high cool” complex compound 3-ton heat pump. Will finalize design and begin fabrication of an engineering prototype unit. Will begin field test of a prototype Ammonia/Water heat pump for light commercial application. Will continue design and begin fabrication of critical components</p>
	<p>TRANSFER FROM: Building Technology, State, and Community Sector/ Building Research and Standards/ Equipment, Materials, and Tools/ Space Conditioning & Refrigeration R&D/ Residential Absorption Heat Pumps/ Desiccant and Chillers</p>		
	<p>Advanced Absorption Heat Pumps Completed laboratory test of a residential GAX heat pump prototype. Began fabricating several engineering field test prototype residential heat pumps units. Fabricated and began laboratory testing of a solid/vapor “high cool” complex compound 3-ton heat pump. Completed fabrication and</p>	<p>Fabricate several engineering prototype residential GAX heat pumps for multiple unit field test.</p>	

III. Performance Summary of Program Activities: DISTRIBUTED ENERGY RESOURCES (Cont'd)

Program Activity	FY 2001	FY 2002	FY 2003
Distributed Generation Technology Development (Cont'd)	<p>began testing a laboratory prototype unit of an Ammonia/Water heat pump for light commercial application. Completed work on a pre-production 450 ton DCC cycle chiller for installation at the Clark County Office Complex in Las Vegas, Nevada and begin a one year field test and evaluation. (\$7,824)</p>	<p>Continue laboratory testing of Solid/vapor "high cool" complex compound 3-ton heat pump. Complete laboratory testing of prototype Ammonia/Water heat pump for light commercial application, and begin fabrication of a field test unit. Continue test and evaluation of an Absorption Chiller at the Clark Country Office Building in Las Vegas, NV. Initiate concept design of an air cooled absorption chiller for commercial application.</p>	<p>for an air cooled absorption chiller for commercial application.</p>
	<p>Advanced Dessicants and Chillers Continued working with the gas industry and Georgia Tech Research Institute to commercialize desiccant technology for improved ventilation and indoor air quality. Completed testing desiccant systems in side-by-side comparison with standard HVAC systems in high occupancy restaurants and evaluated the impact of desiccants on comfort, indoor air quality, and humidity control in buildings. Continued research, development, and testing of liquid desiccant units to establish the impact of scrubbing indoor air and removing contaminants introduced by bad air brought into the buildings.</p>	<p>Continue working with the gas industry and Georgia Tech Research Institute to commercialize desiccant technology for improved ventilation and indoor air quality. Continue R&D on advanced novel desiccant material for improved performance in humidity control, regeneration time and energy, and reduced cost. Complete fabrication and begin testing and evaluation of an engineering model on Advanced Liquid Desiccant systems. Award six contracts on packaged combined heat and power systems. (\$14,660)</p>	<p>Will continue working with the gas industry and Georgia Tech Research Institute to commercialize desiccant technology for improved ventilation and indoor air quality. Will continue R&D on advanced novel desiccant material for improved performance in humidity control, cost, regeneration time and energy, and reduced cost. Will continue testing and evaluation of an engineering model on Advanced Liquid Desiccant systems. (\$4,660)</p>

III. Performance Summary of Program Activities: DISTRIBUTED ENERGY RESOURCES (Cont'd)

Program Activity	FY 2001	FY 2002	FY 2003
Distributed Generation Technology Development (Cont'd)	(\$7,165)	<p>Participants include: Oak Ridge National Laboratory, Argonne National Laboratory, Honeywell Ceramics, Honeywell Composites, GE, International Fuel Cells, H2S Burner Technologies, Foster Miller Associates, EERC, ADL, Allied Signal, Analytic Power, Plug Power, Avista Labs, Alzeta, Materials & Electrochemical Research, EIC Lab, PNL, Solar Turbines Inc., Allison Engines, Battelle Columbus Laboratories, Pratt & Whitney, Siemens Westinghouse, Southwest Research Institute, Allied Signal Ceramics Inc., Kyocera, Catalytica, PCI, Honeywell, Capstone, General Electric, Teledyne, United Technologies, Ingersoll Rand,, State Energy Offices, Caterpillar, Waukesha, Cooper, Cummins, Fairbanks Morse, National Energy Technology Laboratory, Sandia National Laboratory, Mississippi Valley Gas, Rocky Research, York International, Southwest Gas, So Cal</p>	<p>Participants include: Oak Ridge National Laboratory, Argonne National Laboratory, Honeywell Ceramics, Honeywell Composites, GE, International Fuel Cells, H2S Burner Technologies, Foster Miller Associates, EERC, ADL, Allied Signal, Analytic Power, Plug Power, Avista Labs, Alzeta, Materials & Electrochemical Research, EIC Lab, PNL, Solar Turbines Inc., Allison Engines, Battelle Columbus Laboratories, Pratt & Whitney, Siemens Westinghouse, Southwest Research Institute, Allied Signal Ceramics Inc., Kyocera, Catalytica, PCI, Honeywell, Capstone, General Electric, United Technologies, Ingersoll Rand, Teledyne, State Energy Offices, Caterpillar, Waukesha, Cooper, Cummins, Fairbanks Morse, National Energy</p>
<p>Participants included: Oak Ridge National Laboratory, Argonne National Laboratory, Honeywell Ceramics, Honeywell Composites, GE, International Fuel Cells, H2S Burner Technologies, Foster Miller Associates, EERC, ADL, Allied Signal, Analytic Power, Plug Power, Avista Labs, Materials & Electrochemical Research, EIC Lab, PNL, Solar Turbines Inc., Allison Engines, Battelle Columbus Laboratories, Pratt & Whitney, Siemens Westinghouse, Southwest Research Institute, Allied Signal Ceramics Inc., Kyocera, Catalytica, PCI, Honeywell, Capstone, General Electric, Teledyne, United Technologies, Ingersoll Rand,, State Energy Offices, Caterpillar,</p>			

III. Performance Summary of Program Activities: DISTRIBUTED ENERGY RESOURCES (Cont'd)

Program Activity	FY 2001	FY 2002	FY 2003
Distributed Generation Technology Development (Cont'd)	<p>Waukesha, Cooper, Cummins, Fairbanks Morse, National Energy Technology Laboratory, Sandia National Laboratory, Mississippi Valley Gas, Rocky Research, York International, Southwest Gas, So Cal Gas, Energy Concepts, Semco, Trane, Kathabar, Englehard, National Energy Renewable Laboratory, American Gas Cooling Center and Gas Technology Institute, and NRECA, Burns and McDonnell, NiSource Energy Technologies.</p>	<p>Gas, Energy Concepts, Semco, Trane, Kathabar, Englehard, National Energy Renewable Laboratory, American Gas Cooling Center, Gas Technology Institute, NRECA, Burns and McDonnell, and NiSource Energy Technologies.</p>	<p>Technology Laboratory, Sandia National Laboratory, Mississippi Valley Gas, Rocky Research, York International, Southwest Gas, So Cal Gas, Energy Concepts, Semco, Trane, Kathabar, Englehard, National Energy Renewable Laboratory, American Gas Cooling Center and Gas Technology Institute, NRECA, and NiSource Energy Technologies.</p>
Distributed	<p>Technical/Program Management Support Included activities which are integral part of the distributed generation technology development program. Representative activities included preparation of program, strategic plans, and operating plans; R&D feasibility studies and trade-off analysis; evaluation of the impact of new legislation on R&D programs; analysis of energy issues pertinent to the R&D program; identification of performance methodologies (including GPRA); collected data to</p>	<p>Technical/Program Management Support Include activities which will be an integral part of the distributed generation technology development program. Representative activities include preparation of program, strategic plans, and operating plans; R&D feasibility studies and trade-off analysis; evaluation of the impact of new legislation on R&D programs; analysis of energy issues pertinent to the R&D program; development of communication tools; identification of performance</p>	<p>Technical/Program Management Support Will include activities which will be an integral part of the distributed generation technology development program. Representative activities will include preparation of program, strategic, and operating plans; R&D feasibility studies and trade-off analysis; evaluation of the impact of new legislation on R&D programs; analysis of energy issues pertinent to the R&D program; development of communication tools; identification of performance</p>

III. Performance Summary of Program Activities: DISTRIBUTED ENERGY RESOURCES (Cont'd)

Program Activity	FY 2001	FY 2002	FY 2003
Generation Technology Development (Cont'd)	<p>assess program and project performance, efficiency and impacts; and development of performance agreements with management.</p> <p>Specific examples included completion of Advanced Reciprocating Engine Plan, Communications and Sensors for Distributed Energy Resources Program Plan, Distributed Energy Resources Strategic Plan, and Distributed Energy Resources Annual Operating Plan. (\$480)</p>	<p>measures and methodologies (including GPRA); data collection to assess program and project performance, efficiency and impacts; and development of performance agreements with management. (\$480)</p>	<p>measures and methodologies (including GPRA); data collection to assess program and project performance, efficiency and impacts; and development of performance agreements with management. (\$480)</p>
Total, Distributed Generation Technology Development	\$43,903	\$55,896	\$42,896
End-Use Systems Integration and Interface	TRANSFER FROM: Industry Sector/ Industries of the Future (Crosscutting)/ Distributed Generation/ Industrial Distributed Generation		
End-Use Systems	<u>AND</u>		

III. Performance Summary of Program Activities: DISTRIBUTED ENERGY RESOURCES (Cont'd)

Program Activity	FY 2001	FY 2002	FY 2003
Integration and Interface (Cont'd)	<p>TRANSFER FROM: Industry Sector/ Industries of the Future (Crosscutting)/ Technical Assistance/ Best Practices Program</p> <p>Distributed Energy Systems Applications Integration Continued supporting R&D solicited for direct support to utility/industrial teams for addressing power generation/ cogeneration issues identified by the industry. Initiated a real time load control monitoring system in cooperation with the steel industry. Comprehensive assessment of existing and new distributed generation installations at industrial and commercial sites to determine reliability/availability. (\$948)</p>	<p>Distributed Energy Systems Applications Integration Continue supporting R&D solicited for direct support to utility/industrial teams and state partners in addressing power generation/cogeneration reliability issues, and mechanical drive applications. Perform comprehensive assessment of existing and new distributed generation installations at industrial and commercial sites to determine reliability/availability and benefits. These assessments include advanced hybrid technologies and options. Results from assessments is disseminated as information and education materials among potential consumers.</p> <p>Initiate projects to encourage widespread adoption and implementation of distributed energy resources, including combined</p>	<p>Distributed Energy Systems Applications Integration Will continue partnerships with industry consortiums (commercial buildings, merchant stores, light industrial) to identify promising applications for distributed energy technologies and systems, and will initiate validation projects to quantify the potential energy and emissions benefits. Will begin field testing of technologies (including combined heat and power systems) to validate anticipated benefits to data processing and telecommunications industries that have special ultra-high reliability and power quality needs that can only be met by implementing distributed energy resources. Will continue support of R&D to utility/industrial teams and state partners in addressing power generation/cogeneration reliability</p>

III. Performance Summary of Program Activities: DISTRIBUTED ENERGY RESOURCES (Cont'd)

Program Activity	FY 2001	FY 2002	FY 2003
End-Use Systems Integration and Interface (Cont'd)	<p>Cooling, Heating and Power (CHP) Integration Recent technological advances have made Cooling, Heating, and Power (CHP) systems more efficient and less expensive. The energy efficiency of CHP systems can exceed 80 percent. Additionally, CHP has been identified as one of the most near term cost-effective sections to reduce global carbon emissions. The effort supported the joint DOE-Industry goal to double</p>	<p>cooling, heating and power in the data processing and telecommunications industries. These industries have special ultra-high reliability and power quality needs for which only distributed energy resources can supply.</p> <p>Initiate partnerships with industry consortiums (grocery chains, fast food restaurants, retail stores) to identify promising application for distributed energy technologies. (\$4,950)</p> <p>Cooling, Heating and Power (CHP) Integration Support the joint DOE-Industry goal of doubling the amount of Cooling, Heating, and Power (CHP) capacity in the U.S. by 2010, an increase of 46 gigawatts of electricity. Conduct CHP technology assessments and provide the technical tools and expertise necessary for documenting how the successes of CHP systems can benefit the industrial, building, and district energy sectors. Results increase awareness and confidence</p>	<p>issues, and mechanical drive applications.</p> <p>Will support solicitations to address development of open, scalable communication and control systems required to aggregate and control the operation of large numbers of DER systems from different vendors while integrating with utility control and protection systems. (\$7,338)</p> <p>Cooling, Heating and Power (CHP) Integration Will support the joint DOE-Industry goal of doubling the amount of Cooling, Heating, and Power (CHP) capacity in the U.S. by 2010, an increase of 46 gigawatts of electricity. Will continue to raise CHP awareness and assist in eliminating the barriers to CHP installations. Will continue CHP technology assessments and provide the technical tools and expertise</p>

III. Performance Summary of Program Activities: DISTRIBUTED ENERGY RESOURCES (Cont'd)

Program Activity	FY 2001	FY 2002	FY 2003
End-Use Systems Integration and Interface (Cont'd)	<p>the amount of CHP capacity in the U.S. by 2010, equal to 46 gigawatts of electricity and reduce air pollution by 40 million metric tons of carbon. CHP technical assistance activities continued to focus on addressing the barriers conducting CHP technology assessments and providing the technical tools and expertise necessary to demonstrate to industry how successful CHP technologies, and to increase confidence in these technologies. Industry completed technology and barrier elimination roadmaps. (\$998)</p>	<p>in CHP technologies and demonstrated their benefits. (\$1,000)</p>	<p>necessary for documenting how the successes of CHP systems can benefit the industrial, building, and district energy sectors. Building on successful assessment results, will implement the most promising projects. These projects will increase awareness of and confidence in CHP technologies including their benefits in efficiency and emissions.</p> <p>Using the viable heat energy rejected from the making of electricity, high efficiencies can be achieved and packaged technologies can be integrated and optimized for end-use application.</p> <p>Will continue contract support with Industry funding (award) to design, and develop new integrated plug and play packages which combine power generation technologies such a gas turbines, microturbines and reciprocating engines with thermally activated technologies such as chillers and desiccant systems along with the necessary control</p>

III. Performance Summary of Program Activities: DISTRIBUTED ENERGY RESOURCES (Cont'd)

Program Activity	FY 2001	FY 2002	FY 2003
End-Use Systems Integration and Interface (Cont'd)	<p>Participants include: State Energy Offices, Onsite Energy, Washington State University, Oak Ridge National Laboratory, Northeast Midwest, ACEEE, NYSERDA, So Cal Gas, Verizon, Gas Technology Institute, Industrial Center, Salt River, Onsite Sycom, Sandia National Laboratory, DOD, Northern Indiana Public Service Company, Paramount Chemical, Syska Hennessy.</p>	<p>Participants include: State Energy Offices, Onsite Energy, Washington State University, Oak Ridge National Laboratory, Northeast Midwest, ACEEE, NYSERDA, So Cal Gas, Verizon, Gas Technology Institute, Industrial Center, Salt River, Onsite Sycom, Northern Indiana Public Service Company, Paramount Chemical, Syska Hennessy.</p>	<p>technologies. Testing of prototype packages will begin under laboratory conditions before proceeding to commercial field test sites. Transferred from Distributed Generation Technology Development. (\$12,000)</p> <p>Participants include: State Energy Offices, Onsite Energy, Washington State University, Oak Ridge National Laboratory, Northeast Midwest, ACEEE, NYSERDA, So Cal Gas, Verizon, Gas Technology Institute, Industrial Center, Salt River, Onsite Sycom, Northern Indiana Public Service Company, Paramount Chemical, Syska Hennessy, Burns and McDonnell, Burns and McDonnell, Solar Turbines Inc., Broad USA, Capstone, Gas Technology Institute Waukesha, Trane, Honeywell Laboratories, Ingersoll Rand, NiSource Energy Technologies, United Technologies Research Center, DTE Energy Technologies, Carrier Corporation.</p>
End-Use Systems Integration and	Technical/Program Management Support	Technical/Program Management Support	Technical/Program Management Support

III. Performance Summary of Program Activities: DISTRIBUTED ENERGY RESOURCES (Cont'd)

Program Activity	FY 2001	FY 2002	FY 2003
Interface (Cont'd)	Included activities which were integral part of the distributed generation technology development program. Representative activities included preparation of program, strategic plans, and operating plans; R&D feasibility studies and trade-off analysis; evaluation of the impact of new legislation on R&D programs; analysis of energy issues pertinent to the R&D program; identification of performance measures and methodologies (including GPRA); data collection to assess program and project performance, efficiency and impacts; and development of performance agreements with management. (\$50)	Includes activities which are integral part of the distributed generation technology development program. Representative activities include preparation of program, strategic plans, and operating plans; R&D feasibility studies and trade-off analysis; evaluation of the impact of new legislation on R&D programs; analysis of energy issues pertinent to the R&D program; identification of performance measures and methodologies (including GPRA); data collection to assess program and project performance, efficiency and impacts; and development of performance agreements with management. (\$50)	Will include activities which are integral part of the distributed generation technology development program. Representative activities will include preparation of program, strategic plans, and operating plans; R&D feasibility studies and trade-off analysis; evaluation of the impact of new legislation on R&D programs; analysis of energy issues pertinent to the R&D program; identification of performance measures and methodologies (including GPRA); data collection to assess program and project performance, efficiency and impacts; and development of performance agreements with management. (\$50)
Total, End-Use Systems Integration and Interface	\$1,996	\$6,000	\$19,388
TOTAL, DISTRIBUTED ENERGY RESOURCES	\$45,899	\$61,896	\$62,284

**POWER TECHNOLOGIES
(Dollars in Thousands)**

MANAGEMENT AND PLANNING

I. Mission Supporting Goals and Objectives:

The Management and Planning function supports the Office of Power Technologies (OPT) by providing sector-level analysis, assessment, evaluation, and planning functions for the Distributed Energy Resources (DER) Program.

Effective management requires efficient organizational design, adequate human resources, sufficient and high quality information and excellent communication both within the organization and with outside parties. Moreover, understanding the potential for increasing the penetration of energy-efficient and clean energy technologies in the power sector and for achieving the correct balance requires a solid analytical foundation. The Management and Planning function provides this foundation the evaluation, planning, analysis, and program direction functions necessary to effectively guide and support all DER programs.

Nine full-time equivalent (FTE) positions, including five at Headquarters and four in the Field, provide program management and support for the Power Technologies program. This program also includes Technical Evaluation, Analysis, and Planning.

II. A. Funding Table: MANAGEMENT AND PLANNING

Program Activity	FY 2001 Comparable	FY 2002 Comparable	FY 2003 Request	\$ Change	% Change
Evaluation and Planning	\$ 349	\$ 322	\$ 100	\$ (222)	-68.9%
Program Direction	\$ 1,098	\$ 1,628	\$ 1,520	\$ (108)	-6.6%
Total, Management and Planning	<u>\$ 1,447</u>	<u>\$ 1,950</u>	<u>\$ 1,620</u>	<u>\$ (330)</u>	<u>-16.9%</u>

II. B. Laboratory and Facility Funding Table: MANAGEMENT AND PLANNING

	FY 2001 Comparable	FY 2002 Comparable	FY 2003 Request	\$ Change	% Change
All Other	\$ 1,447	\$ 1,950	\$ 1,620	\$ (330)	-16.9%
Total, Management and Planning	<u>\$ 1,447</u>	<u>\$ 1,950</u>	<u>\$ 1,620</u>	<u>\$ (330)</u>	<u>-16.9%</u>

III. Performance Summary of Program Activities: MANAGEMENT AND PLANNING

Activity	FY 2001	FY 2002	FY 2003
Evaluation and Planning	TRANSFER FROM: Building Technology, State, and Community Sector & Industry Sector Management and Planning		
	<p>Evaluation and Planning Provided technical evaluation, analysis and planning, including development of quality metrics for distributed energy resources, identification of performance measures and methodologies (including GPRA); data collection to assess program and project performance, efficiency and impacts; and development of performance agreements with management. Regionally, assessed and evaluated distributed energy resources, benefits and impact. (\$349)</p>	<p>Evaluation and Planning Provide technical evaluation, analysis and planning, including development of quality metrics for distributed energy resources, identification of performance measures and methodologies (including GPRA); data collection to assess program and project performance, efficiency and impacts; and development of performance agreements with management. Regionally, assess and evaluate distributed energy resources, benefits and impact. (\$322)</p>	<p>Evaluation and Planning Will provide technical evaluation, analysis and planning, including development of quality metrics for distributed energy resources, identification of performance measures and methodologies (including GPRA); data collection to assess program and project performance, efficiency and impacts; and development of performance agreements with management. Will regionally, assess and evaluate distributed energy resources, benefits and impact. (\$100)</p>
Total, Evaluation and Planning	\$349	\$322	\$100

III. Performance Summary of Program Activities: MANAGEMENT AND PLANNING (Cont'd)

Activity	FY 2001	FY 2002	FY 2003
Program Direction	TRANSFER FROM: Building Technology, State, and Community Sector & Industry Sector Management and Planning		
	The following is a breakdown of the funding by Object Class:	The following is a breakdown of the funding by Object Class:	The following is a breakdown of the funding by Object Class:
	11.9 Personnel compensation \$	11.9 Personnel compensation \$ 1082	11.9 Personnel compensation \$ 1095
	696	12.1 Civilian personnel benefits \$ 298	12.1 Civilian personnel benefits \$ 300
	12.1 Civilian personnel benefits \$	21.0 Travel and transportation of persons \$ 68	21.0 Travel and transportation of persons \$ 75
	174	25.0 Other contractual services \$ 180	25.0 Other contractual services \$ 50
	21.0 Travel and transportation of persons \$		
	60		
	25.0 Other contractual services \$		
	0		
	Salaries, Travel, and Benefits	Salaries, Travel, and Benefits	Salaries, Travel, and Benefits
	Provided funds for salaries, benefits, and travel (including normal increases in both salaries and benefits) to support usage of 11 FTEs needed to conduct and monitor research, development, and other activities associated with various power technologies, at Headquarters (5) and in the field (6) (Budgeted Headquarters 5, field 3 and total 8). (\$930)	Provide funds for salaries, benefits, and travel (including normal increases in both salaries and benefits) to support 8 FTEs needed to conduct and monitor research, development, and other activities associated with various power technologies, at Headquarters (5) and in the field (3). (\$1448)	The request will provide funds for salaries, benefits, and travel (including normal increases in both salaries and benefits) to support 10 FTEs needed to conduct and monitor research, development, and other activities associated with various power technologies, at Headquarters (5) and in the field (5). (\$1,470)

III. Performance Summary of Program Activities: MANAGEMENT AND PLANNING (Cont'd)

Activity	FY 2001	FY 2002	FY 2003
Program Direction (Cont'd)	<p>TRANSFER FROM: Power Technologies, Management and Planning</p> <p>Management Support Services</p> <p>Consistent with other DOE programs under the jurisdiction of the Interior and Related Agencies Appropriations Committees, the Energy Conservation programs provided funding for Management Support Services, which included activities such as improving the effectiveness, efficiency, and economy of management and general administrative services. These activities are critical to the planning, formulation, and execution of the Energy Conservation programs. (\$168)</p>	<p>Management Support Services</p> <p>Consistent with other DOE programs under the jurisdiction of the Interior and Related Agencies Appropriations Committees, the Energy Conservation programs provide funding for Management Support Services, which includes activities such as improving the effectiveness, efficiency, and economy of management and general administrative services. These activities are critical to the planning, formulation, and execution of the Energy Conservation programs. (\$180)</p>	<p>Management Support Services</p> <p>Consistent with other DOE programs under the jurisdiction of the Interior and Related Agencies Appropriations Committees, the Energy Conservation programs will provide funding for Management Support Services, which includes activities such as improving the effectiveness, efficiency, and economy of management and general administrative services. These activities are critical to the planning, formulation, and execution of the Energy Conservation programs. (\$50)</p>
Total, Program Direction	\$1,098	\$1,628	\$1,520

III. Performance Summary of Program Activities: MANAGEMENT AND PLANNING (Cont'd)

Activity	FY 2001	FY 2002	FY 2003
TOTAL, MANAGE- MENT AND PLANNING	\$1,447	\$1,950	\$1,620

DEPARTMENT OF ENERGY
FY 2003 CONGRESSIONAL BUDGET REQUEST
ENERGY EFFICIENCY AND RENEWABLE ENERGY
ENERGY CONSERVATION
(Tabular dollars in thousands, Narrative in whole dollars)

POLICY AND MANAGEMENT

MISSION SUPPORTING GOALS AND OBJECTIVES

Mission

The Energy Conservation Policy and Management budget component provides executive management, information, analysis, and oversight required for efficient and effective implementation of the Energy Efficiency program. In addition, Policy and Management supports six Regional Offices, and the Golden Field Office in Colorado, which implement DOE Energy Efficiency and Renewable Energy (EERE) activities regionally and facilitate delivery of applied R&D and grant programs to Federal, regional, State, and local customers.

Program Goal and Benefits

Policy and Management provides staffing, resources, and management support for EERE sector offices (Headquarters), the Golden Field Office, EERE's Regional Offices, the International Market Development Program (IMDP), and the Information and Communications Program. EERE Staffing and Contractual Services are described at the end of this section.

Headquarters

Requested funds support the staff and resources necessary for efficient and effective corporate management, oversight, and leadership. EERE faces four major institutional management challenges: (1) EERE programs are numerous and diverse, making management and integration at the corporate level very complex; (2) EERE complies with multiple external requirements, such as GPRA, that require a broad spectrum of information to be delivered at different times of the year; (3) EERE's customer base is very fragmented and therefore information preparation and delivery is complicated; and (4) the EERE R&D and deployment programs depend heavily on contractors managing subcontractors,

sometimes even with the potential for conflict of interest, because they rely on national labs (M&O contractors) to serve as the program and project managers for many programs. Prior to 1999, EERE received criticism from both external and internal sources concerning its business practices and overall management. In addressing these criticisms, the Assistant Secretary obtained independent evaluations on the effectiveness of management within EERE, including a review by the National Academy of Public Administration (NAPA). One criticism common to all of the independent reviews was that EERE did not have a systematic, disciplined approach to the fundamental business of planning, budget development, program execution, and program evaluation.

In response to outside recommendations and its own continuing self-assessments, EERE has initiated numerous reforms to address these identified shortcomings, including:

- Implementation of a Strategic Management System in January 2000 that provides an integrated corporate approach to planning, budget development, budget execution, and program evaluation across the whole organization.
- Issuing an EERE-wide Strategic Plan in March 2000 that set forth goals, objectives, and strategies for the entire organization.
- Implementing new business management systems in FY 2001 that provide managers with critical desktop tools to track technical progress against costs and schedules.
- Initiating improved procurement planning during FY 2001.
- Completing internal reorganizations, including the establishment of a Distributed Energy Office to improve program delivery and address concerns later highlighted by the administration's May 2001 National Energy Policy.
- Initiating several efforts to clarify the roles and responsibilities of EERE's Headquarters, field and laboratory organizations. In addition, the first Director of Field Management and Operations was hired.

This Policy and Management budget will help EERE focus on continued realization of Energy Conservation goals and objectives while implementing the President's management reform agenda. Five key concerns from that Presidential agenda are: human capital, an expanded electronic government, more competitive sourcing, improved financial performance, as well as better integration of budgeting with performance targets and results.

The Office of Planning, Budget, and Management (PBM) has six functional areas that support the effective and efficient operations of the EERE enterprise:

Planning, Analysis, and Evaluation. Provides relevant and timely planning and analysis to support executive decision-making in the areas of resource allocation, budget formulation, performance measurement, and technology assessment. It also provides analyses of performance, planning, and budget issues. The Planning office manages the development and evaluation of EERE's annual

Government Performance and Results Act (GPRA) metrics and updates of the EERE Strategic Plan; coordinates the inclusion of program performance measures in the EERE budget; represents EERE in the development of the annual DOE Performance Plan, Secretary's Performance Agreement with the President, and Accountability Report, DOE's Strategic Plan, the biannual National Energy Policy Plan, and other DOE or administration documents. This functional area coordinated national programmatic reviews which were recommended by Vice President Cheney's May 2001 National Energy Policy Report. Staff from most of the component offices of PBM were engaged in a rigorous review of EERE's programs which lead to the development of a new Strategic Plan.

Budgeting and Financial Management. Provides timely and effective budget formulation, execution and analytical support based upon sound general business principles, as well as specific administration and congressional direction.

Outreach. Communicates the EERE mission, program plans, accomplishments, and technology capabilities to a variety of stakeholder audiences including Congress, the public, educational institutions, industry, and other government and non-government organizations. The Outreach office writes testimony and prepares briefing books; coordinates answers to Congressional questions (between 600-1000 per year); prepares speeches and presentations by the Assistant Secretary and others when requested; manages the Energy Efficiency and Renewable Energy Network web site, (EREN), and the Energy Efficiency and Renewable Energy Clearinghouse, (EREC); and coordinates reviews of EERE-related statements by other DOE offices and Federal agencies.

Human Resources and Organization Management. Aligns EERE's human resources to achieve optimal program efficiency and effectiveness, while ensuring that the contribution of each staff member is valued and recognized by having management and staff work together to define each person's role, and providing the proper support, training, and tools to fulfill that role.

Information Technology. Promotes the use of advanced information technology to revolutionize EERE's operating environment by: (1) streamlining business processes; (2) improving stakeholder and public access to individual R&D programs; (3) using common information protocols to improve the accessibility of information and ease data validation; and (4) making systems easier to use.

Field Management and Operations. Institutionalizes a corporate approach to field management and reporting by improving collaboration, clearly delineating and defining the roles, responsibilities, and authorities among all participants, and embracing environmental safety and health concerns. In addition, the organization carries out EERE's acquisition/procurement process, ensuring that it (1) is clearly defined; (2) is consistent across EERE Headquarters and Field Organizations; (3) complies with DOE policies and practices; (4) includes early needs assessment and ongoing accountability; (5) clarifies office authorities; and (6) properly acquires goods and services in a timely and efficient manner.

Golden Field Office

The Golden Field Office (GO), with 37 Full-Time Equivalents (FTE) budgeted for FY 2003, supports EERE through field project management of R&D partnerships, laboratory contract administration, and a variety of professional, technical, and administrative functions. Federal staff expenditures are funded by both of EERE's Energy and Water Development and Energy Conservation appropriations. GO provides management support for approximately 450 agreements and some 300 active projects in nearly every State and in several other nations to support the EERE Offices of Buildings, Federal Energy Management, Industry, Power, and Transportation Technologies. Key activities include:

- Administering the management and operating contract for the National Renewable Energy Laboratory (NREL).
- Managing the Federal Energy Management Program (FEMP) Super Energy Savings Performance Contracts and serving as the focal point for FEMP finance and procurement activities.
- Providing procurement, legal, business management, information resource management, and technical support to the six EERE Regional Offices.
- Supporting the Inventions and Innovations Program and the National Industrial Competitiveness through Energy, the Environment and Economics Program (NICE³).
- Partnering with industry and academia in joint R&D projects to further develop and facilitate delivery of applied R&D.

Regional Offices

EERE's six Regional Offices (ROs), located in Atlanta, Boston, Chicago, Denver, Philadelphia, and Seattle, catalyze the implementation of energy-efficient and renewable energy strategies at the State and local level by working with States and communities to promote EERE programs; identifying and engaging community and State partners; and integrating EERE programs with public and private sector activities. The ROs, with 119 Full-Time Equivalents (FTE) budgeted for FY 2003, represent almost a quarter of EERE's workforce, and administer nearly \$0.3 billion in program funding to States, localities, and regional organizations.



The ROs role in administering grants, managing projects, and delivering programs that accelerate market penetration of energy efficiency and renewable energy technologies, plays a key role in implementing EERE's mission. Key activities include:

- Administering EERE's principal technology deployment grant programs, including the Weatherization Assistance Program, the State Energy Program, and the Regional Biomass Energy Program.
- Delivering EERE's principal technical assistance programs, including Clean Cities, Rebuild America, and the Federal Energy Management Program.
- Serving as EERE's liaison to State Energy Offices, other State agencies, regional organizations of the National Governors' Association, and other stakeholders involved in energy and environmental quality issues.
- Providing EERE's national program managers at Headquarters with customer feedback on how to make their programs more effective and efficient.
- Supporting and helping deliver special initiatives of the President, Secretary, and Assistant Secretary.
- Creating local, State, and regional partnerships—and leveraging local, State, and regional resources—to maximize the impact of EERE's technologies and programs.
- Helping EERE's end-use sectors deliver their programs to State and local stakeholders.

The following is a crosscut of FY 2003 Regional Office budget estimates by EERE's major Energy Conservation programs: the Federal Energy Management Program (FEMP); Building Technology, State and Community Sector; the Industrial Sector, Power Technologies/Distributed Energy Resources (DER), the Transportation Sector; as well as support activities.

FY 2003 REGIONAL OFFICE BUDGET ESTIMATES
(Dollars in Thousands)

<u>Regional Offices</u>	<u>FEMP</u>	<u>Buildings</u>	<u>Industrial</u>	<u>Power</u>	<u>Transportation</u>	<u>Crosscutting</u>	<u>Mgt & Admin</u>	<u>TOTALS</u>
Atlanta	324	703	270	325	271	378	433	2,704
Boston	176	681	134	272	180	219	568	2,230
Chicago	226	822	103	617	103	51	134	2,056

Denver	331	957	171	270	268	512	689	3,198
Philadelphia	290	724	217	241	241	-	699	2,412
Seattle	283	707	117	256	269	325	458	2,415
TOTALS	1,630	4,594	1,012	1,981	1,332	1,485	2,981	15,015

International Market Development Program

This program provides necessary funding to continue Asia Pacific Economic Cooperation (APEC) participation, and membership in the International Energy Agency's (IEA) Energy and Environmental Technology Information Centers (EETIC). These important diplomatic activities seek to obtain and share information on market opportunities and cutting edge technologies being demonstrated by other countries. Assistance from Energy Efficiency and Sustainable Development Centers (Centers) provide valuable regionally focused market and contact information to U.S. industry. Activities formerly undertaken by the Committee on Energy Efficiency Commerce and Trade (COEECT) have transitioned to public/private partnerships established in accordance with the strategy from the Clean Energy Technology Export (CETE) initiative. Continuing actions include: (a) holding workshops and seminars on U.S. technologies; (b) developing information systems and databases on efficient technologies; (c) developing region-specific product and service registers and vendor lists; (d) and forming and supporting region-specific private sector liaison groups for U.S. energy efficiency technology cooperation.

Information and Communications Program

The Information and Communications Program disseminates information about the benefits of energy efficiency and renewable energy technologies to stakeholders and consumers at the Federal, State, local, and individual level. The objectives of the program are: (1) provide accurate information on energy efficiency and renewable energy technologies to the public so EERE's customers can make informed decisions in the marketplace, resulting in an increase in the adoption of EERE efficiency technologies and efficient energy practices; and (2) raise the general awareness of state-of-the-art in energy efficiency technologies and practices. This is accomplished through a variety of mechanisms including the Energy Efficiency and Renewable Energy Clearinghouse (EREC) and the Energy Efficiency and Renewable Energy Network (EREN).

EREC is the nation’s primary source for free, unbiased information about energy efficiency and renewable energy technologies. EREC has responded to over half a million inquiries since 1994 through its toll-free number (1-800-DOE-EREC), fax, mail, e-mail, and online “ask an energy expert” forum. Additionally, in FY 2000, EREC stored close to 1 million information products for EERE, maintained 1,500 different product titles listed in its inventory, disseminated a total of 241,196 information products for EERE end-use sectors, and responded to over 60,000 inquiries for information, while maintaining an over 95 percent customer satisfaction rating.

EREN is EERE’s comprehensive technology directory and gateway to EERE offices and programs. As the leading Internet directory of energy efficiency and renewable energy resources (located at www.eren.doe.gov), EREN targets information for energy professionals and the general public. In FY 2000, the network averaged over 9 million “hits” per month.

Staffing

The organization has been actively recruiting from industry, universities, and other DOE offices or Federal agencies, as well as offering positions to talented new graduates. These efforts are beginning to pay off as EERE benefits from the inflow of fresh and diverse ideas and perspectives.

The following chart summarizes the staffing supporting the Policy and Management line-item:

FTEs	FY2001 Actuals	FY 2002 Budgeted	FY 2003 Budgeted
Headquarters	58	58	61
Golden Field Office	36	34	37
Regional Offices	119	124	119
Totals	213a/	216	217

a/ For comparability with FY 2002 and FY 2003 columns, budgeted FY 2001 FTE are Headquarters 59, Golden 30, Regional Offices 131, and total 220.

Contractual Services

Contractual Services for program management at Headquarters, the Golden Field Office, and Regional Offices include all landlord activities such as rent, utilities, communications, printing, supplies and materials, and transportation. In addition, Headquarters and Field contractor staff provide independent expertise to assist with technical and financial analyses in a cost effective manner. This expertise is required in the areas of: (1) program evaluation and analysis; (2) performance measurement to enhance the R&D productivity; (3) information exchange with customers and stakeholders; and (4) technical analysis of policies, standards, and markets.

DEPARTMENT OF ENERGY
 FY 2003 CONGRESSIONAL BUDGET REQUEST
 ENERGY CONSERVATION
 (Dollars in Thousands)

POLICY AND MANAGEMENT

PROGRAM FUNDING PROFILE

Program Activity	FY 2001 Comparable Appropriation	FY 2002 Comparable Appropriation	FY 2003 Request	\$ Change	% Change
Policy and Management Operating Expenses	\$ 46,046	\$ 46,415	\$42,706 ^{b/}	\$ -3,709	-8.0%
TOTAL	\$46,046^{a/}	\$ 46,415	\$ 42,706	\$ -3,709	-8.0%

Summary

Operating Expenses	\$	46,046	\$	46,415	\$	42,706	\$	-3,709	-8.0%
Total Program	\$	46,046	\$	46,415	\$	42,706	\$	-3,709	-8.0%

Total Excluding Full Funding for Federal Retirement	\$	43,274	\$	43,750	\$	40,053	\$	-3,697	-8.5%
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Staffing (FTEs)	Actual	Budgeted	Budgeted
HQ FTEs	51	58	61
Field FTEs	150	158	156
Total FTEs ..	201 ^{c/}	216	217

Authorizations:

- P.L. 94-163, "Energy Policy and Conservation Act" (EPCA) (1975)
- P.L. 94-385, "Energy Conservation and Production Act" (ECPA) (1976)
- P.L. 95-91, "Department of Energy Organization Act" (1977)
- P.L. 95-618, "Energy Tax Act of 1978"
- P.L. 95-619, "National Energy Conservation Policy Act" (NECPA) (1978)
- P.L. 96-294, "Energy Security Act" (1980)
- P.L.102-486, "Energy Policy Act of 1992"

^{a/} Reflects adjustment of \$-95,000 for Omnibus Rescission, P.L. 106-554.

^{b/} The FY 2001 and FY 2002 columns of the FY 2003 Congressional Request include funding in the amounts of \$2,772,000 and \$2,665,000 respectively, for the Government's share of increased costs associated with pension and annuitant health care benefits. These funds are comparable to FY 2003 funding of \$2,653,000. (Note: data is presented on a comparable basis as if the legislation had been enacted and implemented in FY 2001).

^{c/} Actual Full-Time Equivalent (FTE) usage is cited for FY 2001 while budgeted staffing numbers are displayed in the FY 2002 and FY 2003 columns. For comparability purposes, budgeted FY 2001 FTE were Headquarters 59, Field 161 and total 220.

DEPARTMENT OF ENERGY
 FY 2003 CONGRESSIONAL BUDGET REQUEST
 ENERGY CONSERVATION
 (Dollars in Thousands)

POLICY AND MANAGEMENT

SUMMARY OF CHANGES

	FY 2003 Request
FY 2002 Comparable	\$ 46,415
Non-Discretionary	
- Increase for Federal Pay Raise and Locality Pay	430
- Increase for Working Capital Fund	18
- Increase for Other (Rent for Regional Offices)	43
FY 2003 Base	\$ 46,906
<u>Policy and Management:</u>	
- Contractual Services (HQ) - 6 percent reduction in contract services	-677
- Salaries and Related Expenses (HQ) - 2 percent decrease in salaries and related expenses	-140
- Contractual Services (Golden Field Office) - 12 percent increase in contract services.	263
- Salaries and Related Expenses (Golden Field Office) - 9 percent reduction in salaries and related expenses	-337
- Contractual Services (Regional Offices) - 25 percent decrease in contract services	-1,184
- Contractual Services (Regional Offices) - 16 percent reduction in total salaries and related expenses	-2,125
FY 2003 Budget Request.	\$ 42,706

II. A. Funding Table: POLICY AND MANAGEMENT

Program Activity	FY 2001	FY 2002	FY 2003	\$ Change	% Change
Headquarters					
Salaries and Related Expenses	\$ 6,490	\$ 6,750	\$ 6,747	\$ -3	-0.0%
Full Funding for Federal Retirement	\$ 2,772	\$ 2,665	\$ 2,653	\$ -12	-0.5%
Subtotal Salaries and Related Expenses	\$ 9,262	\$ 9,415	\$ 9,400	\$ -15	-0.2%
Contractual Services	\$ 10,377	\$ 10,585	\$ 9,926	\$ -659	-6.2%
Subtotal Headquarters	\$ 19,639	\$ 20,000	\$ 19,326	\$ -674	-3.4%
Golden Field Office					
Salaries and Related Expenses	\$ 3,315	\$ 3,960	\$ 3,697	\$ -263	-6.6%
Contractual Services	\$ 2,453	\$ 2,205	\$ 2,468	\$ 263	11.9%
Subtotal Golden Field Office	\$ 5,768	\$ 6,165	\$ 6,165	\$ 0	0.0%
Regional Offices					
Salaries and Related Expenses	\$ 12,428	\$ 13,323	\$ 11,429	\$ -1,894	-14.2%
Contractual Services	\$ 4,061	\$ 4,727	\$ 3,586	\$ -1,141	-24.1%
Subtotal Regional Offices	\$ 16,489	\$ 18,050	\$ 15,015	\$ -3,035	-16.8%
International Market Development Program	\$ 2,600	\$ 650	\$ 650	\$ 0	0.0%
Information and Communications Program	\$ 1,550	\$ 1,550	\$ 1,550	\$ 0	0.0%
Total, Policy and Management	\$ 46,046	\$ 46,415	\$ 42,706	\$ -3,709	-8.0%

II. B. Laboratory and Facility Funding Table: POLICY AND MANAGEMENT

Program Activity	FY 2001	FY 2002	FY2003	\$ Change	% Change
Golden Field Office	\$ 5,768	\$ 6,165	\$ 6,165	\$ 0	0.0%
Regional Offices	\$ 16,489	\$ 18,050	\$ 15,015	\$ -3,035	-16.8%
All Other	\$ 23,789	\$ 22,200	\$ 21,526	\$ -674	-3.0%
Total, Policy and Management	\$ 46,046	\$ 46,415	\$ 42,706	\$ -3,709	-8.0%

III. Performance Summary: Policy and Management

Program Activity	FY 2001	FY 2002	FY 2003
Headquarters - Salaries and Related Expenses	<p>Supported 51 actual FTE usage for the continued executive management activities at HQ including the implementation of Workforce 21 plans (Budgeted 59 FTE).</p> <p>Activities to be continued include: liaison with senior officials in Congress, the White House, OMB, and other agencies as well as State and local governments, and the private sector.</p> <p>These activities also provided for the continued formulation and operation of the EERE programs including: establishing goals and objectives for the programs; assessing performance and effectiveness; supporting the FY 1992 Energy Policy Act requirements and the Government Performance and Results Act, development of a comprehensive plan that will focus on building and sustaining a talented and diverse workforce of R&D Technical Managers. (\$6,490)</p> <p>For comparison purposes, there is a \$2,772,000 budget adjustment for full funding of federal employee retirement. (\$2,772).</p>	<p>The FY 2002 budget supports 58 FTEs to provide for the continued executive management activities at HQ including the implementation of Workforce 21 plans. Activities to be continued include: liaison with senior officials in Congress, the White House, OMB, and other agencies as well as State and local governments, and the private sector.</p> <p>These activities also provide for the continued formulation and operation of the EERE programs including: establishing goals and objectives for the programs; assessing performance and effectiveness; and supporting the FY 1992 Energy Policy Act requirements and the Government Performance and Results Act (\$6,750)</p> <p>For comparison purposes, there is a \$2,665,000 budget adjustment for full funding of federal employee retirement. (\$2,665)</p>	<p>The FY 2003 Request supports 61 FTEs to provide for the continued executive management activities at HQ including the implementation of Workforce 21 plans. Activities to be continued include: liaison with senior officials in Congress, the White House, OMB, and other agencies as well as State and local governments, and the private sector.</p> <p>These activities also provide for the continued formulation and operation of the EERE programs including: establishing goals and objectives for the programs; assessing performance and effectiveness; and supporting the FY 1992 Energy Policy Act requirements and the Government Performance and Results Act (\$6,747)</p> <p>This budget also reflects a Bush administration initiative which reallocates funds for accruing Civil Service Retirement System (CSRS) and post retirement health benefits</p>

III. Performance Summary: Policy and Management

Program Activity	FY 2001	FY 2002	FY 2003
Headquarters - Salaries and Related Expenses (Cont'd)			of current federal employees to individual agency program budgets. An added \$2,653,000 has been included in the Energy Conservation-Policy and Management budget for these benefits. (\$2,653)
Total, Headquarters - Salaries and Related Expenses	\$9,262	\$9,415	\$9,400
	The following is a breakdown of the funding by Object Class: 11.9 Personnel compensation \$ 4,850 12.1 Civilian personnel benefits \$ 1,290 Federal retirement adjustment \$ 2,772 21.0 Travel and transportation of persons \$ 350 22.0 Transportation of things \$ 0 25.0 Other contractual services \$10,377	The following is a breakdown of the funding by Object Class: 11.9 Personnel compensation \$ 5,050 Civilian personnel benefits \$ 1,345 Federal retirement adjustment \$ 2,665 21.0 Travel and transportation of persons \$ 355 22.0 Transportation of things \$ 0 25.0 Other contractual services \$10,585	The following is a breakdown of the funding by Object Class: 11.9 Personnel compensation \$ 5,052 12.1 Civilian personnel benefits \$ 1,345 Federal retirement adjustment \$ 2,653 21.0 Travel and transportation of persons \$ 350 22.0 Transportation of things \$ 0 25.0 Other contractual services \$ 9,926
Headquarters - Contractual Services	Working Capital Fund (WCF) A total of \$4,725 for the WCF supported all administrative services for headquarters employees such as: rent,	Working Capital Fund (WCF) The budget supports \$4,645 for WCF activities such as administrative services, rent (\$3,634), automated office	Working Capital Fund (WCF) The request supports \$4,663 for WCF activities such as administrative services, rent (\$3,664), automated office support,

III. Performance Summary: Policy and Management

Program Activity	FY 2001	FY 2002	FY 2003
Headquarters - Contractual Services (Cont'd)	automated office support, contract close out, telephone services, postage, printing and graphics, and similar services. An estimated \$3,255 will be needed for rent in FY2001. (\$4,725)	support, contract close out, telephone services, postage, printing, graphics, and similar services. (\$4,645)	contract close out, telephone services, postage, printing, graphics, and similar services. (\$4,663)
	Crosscutting and Contractual Support	Crosscutting and Contractual Support	Crosscutting and Contractual Support
	Supported crosscutting functions, analytical research, enhanced performance measurement and program evaluation activities, including strategic planning; budget formulation and execution; procurement; stakeholder outreach; and personnel management. (\$5,652)	Perform analytical services and independent reviews in support of cross-cutting program objectives and program performance measures. Peer review EERE program performance to provide feedback to research programs. Program management support for information technology, outreach, communication, procurement and human resources management. (\$5,940)	Perform analytical services and independent reviews in support of cross-cutting program objectives and program performance measures. Peer review EERE program performance providing feedback to research programs. Program management support for information technology, outreach, communication, procurement and human resources management. (\$5,263)
Total, Headquarters - Contractual Services	\$10,377	\$10,585	\$9,926
Total, Headquarters	\$19,639	\$20,000	\$19,326

III. Performance Summary: Policy and Management

Program Activity	FY 2001	FY 2002	FY 2003
Golden Field Office - Salaries and Related Expenses	<p>The FY 2001 appropriation supported 32 FTE usage to permit the continued operation of the Golden Field Office (Budgeted 30 FTE). GO manages and administers the Management and Operating contract for NREL and acts as the Federal manager for NREL program planning and execution, budget and financial management, information resource management, environment safety and health, and various other program functions. Approximately half of the EERE program at NREL supports Energy Conservation programs such as Alternative Fuels Utilization, Electric and Hybrid Propulsion, Building Systems Research, and Industrial Separations. GO also manages a wide variety of programs by contracting with commercial vendors, non-profit entities, and colleges and universities. (\$3,315)</p>	<p>The budget supports the continued operation of the Golden Field Office including 34 FTEs for program management activities such as monitoring and evaluating laboratory work and reviewing and funding research proposals, contract and technical management of projects with universities, and commercial vendors, and field management of the Management and Operating contract for NREL. (\$3,960)</p>	<p>The request supports the continued operation of the Golden Field Office including 37 FTEs for program management activities such as monitoring and evaluating laboratory work and reviewing and funding research proposals, contract and technical management of projects with universities, and commercial vendors, and field management of the Management and Operating contract for NREL. (\$3,697)</p>

III. Performance Summary: Policy and Management

Program Activity	FY 2001	FY 2002	FY 2003
Total, Golden Field Office - Salaries and Related Expenses	\$3,315	\$3,960	\$3,697
The following is a breakdown of the funding by Object Class for the Golden Field Office:		The following is a breakdown of the funding by Object Class for the Golden Field Office:	The following is a breakdown of the funding by Object Class for the Golden Field Office:
11.9 Personnel compensation	\$ 2,525	11.9 Personnel compensation	11.9 Personnel compensation
12.1 Civilian personnel benefits	\$ 630	\$3,030	\$2,829
21.0 Travel and transportation of persons	\$ 160	12.1 Civilian personnel benefits	12.1 Civilian personnel benefits
22.0 Transportation of things	\$ 10	760	708
23.2 Rental payments to GSA and others	\$ 212	21.0 Travel and transportation of persons	21.0 Travel and transportation of persons
23.3 Communications, utilities, and and miscellaneous charges	\$ 75	22.0 Transportation of things	22.0 Transportation of things
24.0 Printing and reproduction	\$ 2	15	15
25.1 Advisory and assistance services	\$ 1,645	23.2 Rental payments to GSA and others	23.2 Rental payments to GSA and others
25.2 Other services (training, service agreements, etc.)	\$ 394	23.3 Communications, utilities, and and miscellaneous charges	\$ 212
26.0 Supplies and materials	\$ 65	\$ 80	23.3 Communications, utilities, and and miscellaneous charges
31.0 Equipment	\$ 50	24.0 Printing and reproduction	24.0 Printing and reproduction
		5	5
		25.1 Advisory and assistance services	25.1 Advisory and assistance services
		\$ 1,625	\$ 1,335
		25.2 Other services (training, service agreements)	25.2 Other services (training, service agreements)
		\$ 153	\$ 706
		26.0 Supplies and material	26.0 Supplies and materials
		\$ 65	\$ 65
		31.0 Equipment	31.0 Equipment
		\$ 50	\$ 50

III. Performance Summary: Policy and Management

Program Activity	FY 2001	FY 2002	FY 2003
Golden Field Office - Contractual Services	A total of \$2,453 supported landlord activities including contractual services associated with the operation of the Golden Field Office. (\$2,453)	The request provides \$2,205 for landlord activities to support infrastructure and supplies to maintain the operation of the Golden Field Office and help in the implementation of the EERE mission. (\$2,205)	The request provides \$2,468 for landlord activities to support infrastructure and supplies to maintain the operation at Golden and help in the implementation of the EERE mission. (\$2,468)
Total, Golden Field Office - Contractual Services	\$2,453	\$2,205	\$2,468
Total, Golden Field Office	\$5,768	\$6,165	\$6,165

III. Performance Summary: Policy and Management

Program Activity	FY 2001	FY 2002	FY 2003
Regional Offices	<p data-bbox="428 321 905 391">Federal Energy Management Program</p> <p data-bbox="428 399 905 545">The aggregate allocation of \$1,778 for the six Regional Offices supported the following FEMP activities:</p> <p data-bbox="428 589 905 735">Coordinated and organized workshop and webcasts publicizing lessons learned from 25 ALERT team reviews.</p> <p data-bbox="428 779 905 1120">Conducted 18 region-specific training workshops including Energy 10 software, State utility finance, EQuest software and Energy Star Buildings, LED Gas, Water conservation, Alternate Financing, Measurement and Verification and NetMetering workshops.</p> <p data-bbox="428 1164 905 1424">Forged new energy savings partnerships and strengthened existing ones with Federal agencies such as GSA, NPS, CDC, VA, FAA, EPA, DOD, Army, Navy, Coast Guard and National Guard.</p> <p data-bbox="428 1468 905 1502">Forged numerous new working</p>	<p data-bbox="928 321 1413 391">Federal Energy Management Program</p> <p data-bbox="928 399 1413 545">The aggregate allocation of \$1,955 for the six Regional Offices supports the following FEMP activities:</p> <p data-bbox="928 589 1413 776">Assist Federal agencies in interpreting and applying new Executive Orders and actions resulting from the President's National Energy Strategy.</p> <p data-bbox="928 820 1413 893">Continue to provide agencies with SAVEnergy Audits as required.</p> <p data-bbox="928 937 1413 1010">Award and administer FEMP SEP Special Project Grants.</p> <p data-bbox="928 1086 1413 1354">FEMP also receives reimbursements from other agencies to support added federal staff at Regional Offices, but on a limited appointment basis ranging from two to four years in service length.</p>	<p data-bbox="1436 321 1915 391">Federal Energy Management Program</p> <p data-bbox="1436 399 1915 513">The aggregate allocation of \$1,630 for the six Regional Offices supports the following FEMP activities:</p> <p data-bbox="1436 557 1915 743">RO efforts will continue to be centered on identifying Federal agency energy needs and providing tools to help achieve EO13123 energy goals.</p> <p data-bbox="1436 787 1915 933">Technology-specific ESPCs and related follow-on projects should increase as a percentage of successfully financed projects.</p> <p data-bbox="1436 977 1915 1164">Expand focus on Federal industrial facilities, peak load reduction and cost savings, design and operation of laboratory facilities, the latest technology in building controls.</p> <p data-bbox="1436 1208 1915 1313">Promote and incorporate through FEMP, clean and efficient Federal transportation savings.</p> <p data-bbox="1436 1357 1915 1502">Increase RO efforts to focus on expanding ALERT team reviews to high risk areas in an effort to help mitigate potential energy</p>

III. Performance Summary: Policy and Management

Program Activity	FY 2001	FY 2002	FY 2003
Regional Offices (Cont'd)	<p>agreements to increase the use of renewables and incorporated energy efficient technologies through the Green Energy Parks Program. Yellowstone and Ft. Jefferson National Parks utilizing EERE technologies.</p> <p>Successfully incorporated SuperESPCs to qualify for Federal Energy Star Building designation.</p> <p>Met FY2001 goal of leveraging \$120 million in private investments for Federal energy and water efficiency projects via FEMPs Super ESPC program.</p> <p>Awarded 9 FEMP SEP Special Project Grants through State Energy Offices nationwide. Administered implementation of previous awards.</p> <p>Completed 70 SAVEnergy Audits.</p> <p>Worked with utilities and Federal agencies to establish Green Power purchasing programs and Federal power aggregation efforts.</p>	<p></p> <p></p> <p></p> <p></p> <p></p> <p></p> <p></p> <p></p> <p></p> <p>Total: \$1,955 (Salaries and</p>	<p>emergencies offering agency and region-specific training in LEED certification, distributed energy and combined heat and power, energy and water software programs, and water conservation.</p> <p>Increase efforts to integrate sustainable design, practices, procedures and standards.</p> <p>Continue to provide SAVEnergy Audits as required.</p> <p>Increase efforts to meet SuperESPC goals as established by FEMP HQ.</p> <p>Leverage existing resources by expanding joint efforts with EERE-Power and Industrial Technologies , as well as universities in training, outreach, and assessment with a focus on Federal industrial facilities.</p> <p>Total: \$1,630 (Salaries and Related</p>
Regional Offices	Total: \$1,777 (Salaries and	Total: \$1,955 (Salaries and	Total: \$1,630 (Salaries and Related

III. Performance Summary: Policy and Management

Program Activity	FY 2001	FY 2002	FY 2003
(Cont'd)	<p>Related Expenses: \$1,195, Travel: \$149 Contract Support: \$108, Contractual Services & Landlord Expenses: \$325)</p>	<p>Related Expenses: \$1,300, Travel: \$176, Contract Support: \$69, Contractual Services & Landlord Expenses: \$410)</p>	<p>Expenses: \$1,158, Travel: \$56, Contract Support: \$60, Contractual Services & Landlord Expenses: \$356)</p>
	<p>Office of Buildings Technologies, State and Community Programs (BTS) The aggregate allocation of \$4,773 for the six Regional Offices supported the following BTS activities:</p>	<p>Office of Buildings Technologies, State and Community Programs (BTS) The aggregate allocation of \$5,529 for the six Regional Offices supports the following BTS activities:</p>	<p>Office of Buildings Technologies, State and Community Programs (BTS) The aggregate allocation of \$4,594 for the six Regional Offices supports the following BTS activities:</p>
	<p><i>(State Formula Grants)</i> Awarded and administered Weatherization Assistance Program (WAP) grants to 50 states, Washington DC, and Native American tribes to weatherize approximately 75,000 low income homes nationwide. Worked with state and local WAP agencies and others to identify opportunities and implement Weatherization <i>Plus</i> strategies at the regional, state and local level. Supported and provided technical assistance and training to states and local service providers to promote advanced EERE technologies and strategies to</p>	<p><i>(State Formula Grants)</i> Award and administer Weatherization Assistance Program grants to 50 states, Washington DC, and Native American tribes to weatherize approximately 105,000 low income homes nationwide.</p> <p>Award and administer State Energy Program (SEP) grants to 50 states, DC and 5 Territories to support state energy activities. Continue work with State Energy Offices and other partners to support implementation of the SEP Strategic Plan for the 21st Century.</p>	<p><i>(State Formula Grants)</i> Award and administer Weatherization Assistance Program grants to 50 states, Washington DC, and Native American tribes to weatherize approximately 123,000 low income homes nationwide. Conduct training, workshops, and peer exchanges to help state and local weatherization agencies and others expand the service delivery infrastructure to promote advanced EERE technologies and strategies to improve program effectiveness.</p> <p>Award and administer State Energy Program (SEP) grants to 50 states, DC and 5 Territories to</p>

III. Performance Summary: Policy and Management

Program Activity	FY 2001	FY 2002	FY 2003
Regional Offices (Cont'd)	<p>improve program effectiveness using regional peer exchange working groups.</p> <p>Awarded and administered State Energy Program (SEP) grants to 50 states, DC and 5 Territories to support state energy activities. Worked with State Energy Offices and other partners to support implementation of the SEP Strategic Plan for the 21st Century addressing the key goals of market transformation and collaboration with environmental concerns.</p> <p>Awarded and administered at least 100 SEP Special Project grants to states, DC and the 5 Territories on a cost shared competitive basis to help deploy end-use sector technologies. Developed and conducted training sessions/workshops to exchange information, results, and lessons learned from these grants.</p> <p><i>(Discretionary Programs)</i> Managed Regional Teams of DOE, state and contractor staff to implement Rebuild America in</p>	<p>Award and administer SEP Special Project grants to states, DC and the 5 Territories on a cost shared competitive basis to help deploy end-use sector technologies.</p> <p><i>(Discretionary Programs)</i> Manage Regional Teams of DOE, state and contractor staff to implement Rebuild America in the regions.</p> <p>Seek DOE resources to meet the priority needs of key Rebuild America existing community and school partnerships.</p> <p>Leverage resources from partner organizations to meet existing partnership needs.</p> <p>Award, administer and provide oversight and monitoring of Special Project Grants to states to support Rebuild America.</p> <p>Provide base level support to market and support the Energy Star program through major existing events and programs.</p>	<p>support state energy activities. Continue work with State Energy Offices and other partners to support implementation of the SEP Strategic Plan for the 21st Century.</p> <p>Award and administer SEP Special Project grants to states, DC and the 5 Territories on a cost shared competitive basis to help deploy end-use sector technologies.</p> <p><i>(Discretionary Programs)</i> Manage Regional Teams of DOE, state and contractor staff to implement Rebuild America in the region.</p> <p>Market information, provided tools, and other assistance to help over 370 existing school and community partnerships retrofit 60 million square feet of floor space.</p> <p>Award, administer and provide oversight and monitoring of Special Project Grants to states to support Rebuild America.</p> <p>Award and administer financial assistance to communities, states,</p>

III. Performance Summary: Policy and Management

Program Activity	FY 2001	FY 2002	FY 2003
Regional Offices (Cont'd)	<p>the regions.</p> <p>Recruited approximately 40 new school and community partnerships and marketed information, provided tools, and other assistance to help existing community partnerships retrofit 80 million square feet of floor space.</p> <p>Awarded, administered and provided oversight and monitoring of Special Project Grants to states to support Rebuild America.</p> <p>Awarded and administered financial assistance to communities, states, and others to demonstrate ways DOE could support “Gateway” approaches to addressing the broad energy needs of communities.</p> <p>Assisted in the marketing and promotion of the Energy Star program at the regional and state level by participating in energy fairs, conservation days, green power conferences and governments meetings.</p>	<p>Award grants to support state building energy code efforts through the SEP Special Projects and provide monitoring and oversight.</p> <p>Provide information on Building America program results and opportunities to states and other interested parties.</p>	<p>and others to demonstrate ways DOE could support “Gateway” approaches to addressing the broad energy needs of communities.</p> <p>Promote the Energy Star program at the regional and state level.</p> <p>Fund and support pilot promotional efforts.</p> <p>Promote and recognize regional successes. Expand efforts to integrate the program into building programs such as Rebuild America.</p> <p>Award grants to support state building energy code efforts through the SEP Special Projects and provide monitoring and oversight.</p> <p>Provide information on Building America program results and opportunities to states and other interested parties.</p>

III. Performance Summary: Policy and Management

Program Activity	FY 2001	FY 2002	FY 2003
Regional Offices (Cont'd)	<p>Worked with local media to publicize Energy Star and Energy Awareness month. Promoted and recognized regional successes.</p> <p>Awarded and administered grants to support State Building Energy Codes efforts through the SEP Special Projects and provides monitoring and oversight.</p> <p>Arranged for technical staff from National laboratories and other sources to train code and building officials.</p> <p>Provided technical information on code opportunities at workshops and conferences.</p> <p>Awarded and administered SEP Special Project grants to enable states to support Building America efforts.</p> <p>Provided monitoring and oversight.</p> <p>Provided information on program results and opportunities to states and other interested parties.</p>		

III. Performance Summary: Policy and Management

Program Activity	FY 2001	FY 2002	FY 2003
Regional Offices (Cont'd)	Total: \$4,773 (Salaries and Related Expenses: \$3,282, Travel: \$316, Contract Support: \$307, Contractual Services and Landlord Expenses: \$868)	Total: \$5,529 (Salaries and Related Expenses: \$3,601, Travel: \$447, Contract Support: \$212, Contractual Services and Landlord Expenses: \$1,269)	Total: \$4,594 (Salaries and Related Expenses: \$3,165, Travel: \$143, Contract Support: \$184, Contractual Services and Landlord Expenses: \$1,102)
	Office of Industrial Technologies (OIT)	Office of Industrial Technologies (OIT)	Office of Industrial Technologies (OIT)
	The aggregate allocation of \$1,178 for the six Regional Offices supported the following OIT activities:	The aggregate allocation of \$1,216 for the six Regional Offices supports the following OIT activities:	The aggregate allocation of \$1,012 for the six Regional Offices supports the following OIT activities:
	Developed and supported 26 industry/state & federal government/ university collaborations, resulting in the signing of six State Industry of the Future (IOF)/DOE Compacts.	Develop State-based IOF technology roadmaps that support and supplement IOF specific programs.	<u>FY'01 Continued Activities</u>
	Deployed the State IOF Gateway to State and Local partners as the integrated delivery mechanism for OIT's programs, services, and products, through grant writing and promotional meetings and workshops.	Integrate OIT crosscutting activities into State IOF deliverables.	<ul style="list-style-type: none"> • State IOF Coalition Building • State IOF Gateway Deployment • NICE³ Support & Site Visits • Energy & Utility Linkage • IAC Promotion • University Access to Resources • Best Practice Resource
	Promoted the NICE ³ Program and	Expand awareness and interest in OIT's portfolio of enabling technologies, financial assistance, and technical assistance programs.	Promotion <ul style="list-style-type: none"> • Inclusion of Environment & Economic Development Officials
			Influence how regional priorities are established by serving on OIT's State IOF Team.
			Implement State-based IOF

III. Performance Summary: Policy and Management

Program Activity	FY 2001	FY 2002	FY 2003
Regional Offices (Cont'd)	<p>provided grant monitoring and site visits for 40 on-going projects.</p> <p>Developed local contacts with energy and utility company representatives to provide coordinated delivery of EE resources, technologies, and solutions for their Industrial customers.</p> <p>Assisted the 26 local Industrial Assessment Centers (IAC) by promoting opportunities and benefits of assessments to companies.</p> <p>Worked with Universities interested in gaining access to DOE's resources to meet industries' needs by promoting solicitations and providing linkage to potential industry partners.</p> <p>Promoted Best Practices financial and technical resources to end-use customers, and as a resource capacity building element of the State IOF Program.</p> <p>Expanded OIT mission and benefits by including state and</p>		<p>technology roadmaps that support and supplement IOF specific programs.</p> <p>Integrate OIT crosscutting activities into State IOF deliverables.</p> <p>Expand awareness and interest in OIT's portfolio of enabling technologies, financial assistance, and technical assistance programs.</p> <p>Using the State IOF Gateway, collaborate with States, Universities and Industry partners to pursue the Energy Efficiency Science Initiative.</p>

III. Performance Summary: Policy and Management

Program Activity	FY 2001	FY 2002	FY 2003
Regional Offices (Cont'd)	<p>local environmental and economic development policy makers.</p> <p>Total: \$1,178 (Salaries and Related Expenses: \$814, Travel: \$71, Contract Support: \$72, Contractual Services and Landlord Expenses: \$221)</p>	<p>Total: \$1,216 (Salaries and Related Expenses: \$800, Travel: \$109, Contract Support: \$44, Contractual Services and Landlord Expenses: \$263)</p>	<p>Total: \$1,012 (Salaries and Related Expenses: \$709, Travel: \$35, Contract Support: \$39, Contractual Services and Landlord Expenses: \$229)</p>
Office of Power Technologies (OPT)	<p>The aggregated allocation of \$2,027 for the six Regional Offices supported the following OPT activities:</p> <p>Provided general and region-specific support of renewable energy technology deployment programs through partnerships, facilitating projects and technical assistance, outreach to regional stakeholders and interaction with HQ program managers.</p> <p>Provided project oversight of the 35 OPT sponsored State Energy Program special project grants and cooperative agreements to states.</p> <p>Total: \$2,027 (Salaries and Related Expenses:</p>	<p>Office of Power Technologies (OPT)</p> <p>The aggregated allocation of \$2,334 for the six Regional Offices will support the following OPT activities:</p> <p>Provided general and region-specific support of renewable energy technology deployment programs through partnerships, facilitating projects and technical assistance, outreach to regional stakeholders and interaction with HQ program managers.</p> <p>Total: \$2,334 (Salaries and Related Expenses:</p>	<p>Office of Power Technologies (OPT)</p> <p>The aggregated allocation of \$1,981 for the six Regional Offices will support the following OPT activities:</p> <p>Provided general and region-specific support of renewable energy technology deployment programs through partnerships, facilitating projects and technical assistance, outreach to regional stakeholders and interaction with HQ program managers.</p> <p>Total: \$1,981 (Salaries and Related Expenses:</p>

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Program Activity	FY 2001	FY 2002	FY 2003
Regional Offices (Cont'd)	\$1,418, Travel: \$147, Contract Support: \$112, Contractual Services and Landlord Expenses: \$350)	\$1,609, Travel: \$159, Contract Support: \$61, Contractual Services and Landlord Expenses: \$505)	\$1,438, Travel: \$51, Contract Support: \$53, Contractual Services and Landlord Expenses: \$439)
	<p data-bbox="441 495 766 609"> Office of Transportation Technologies (OTT) </p> <p data-bbox="441 609 871 755"> The aggregated allocation of \$1,440 for the six Regional Offices supported the following OTT activities: </p> <p data-bbox="441 803 871 917"> Assisted Clean Cities coalitions toward achieving new program goals. </p> <p data-bbox="441 958 871 1104"> Helped implement the five main program areas critical to alternative fuel vehicle (AFV) and alternative fuel market development. </p> <p data-bbox="441 1144 871 1226"> Represented DOE on each of the more than 80 active Coalitions. </p> <p data-bbox="441 1266 871 1453"> Co-sponsored and actively participated in over 50 “Advancing The AFV Choice” events for fleet operators with approximately 100 attendees each. </p>	<p data-bbox="955 495 1281 609"> Office of Transportation Technologies (OTT) </p> <p data-bbox="955 609 1365 755"> The aggregated allocation of \$1,617 for the six Regional Offices will support the following OTT activities: </p> <p data-bbox="955 803 1365 885"> Continue to assist coalitions work toward achieving program goals. </p> <p data-bbox="955 917 1365 998"> Continue to implement the five main program areas. </p> <p data-bbox="955 1031 1365 1112"> Continue to represent DOE on each of the Clean Cities coalitions. </p> <p data-bbox="955 1144 1365 1258"> Serve as a liaison between the Clean Cities Tiger Teams and the coalitions. </p> <p data-bbox="955 1299 1365 1485"> Continue to provide technical and financial assistance and active participation in “Advancing The AFV Choice” events for niche markets. </p>	<p data-bbox="1459 495 1785 609"> Office of Transportation Technologies (OTT) </p> <p data-bbox="1459 609 1890 755"> The aggregated allocation of \$1,332 for the six Regional Offices will support the following OTT activities: </p> <p data-bbox="1459 803 1869 885"> Continue to assist coalitions work toward achieving program goals. </p> <p data-bbox="1459 917 1869 998"> Continue to implement the five main program areas. </p> <p data-bbox="1459 1031 1869 1112"> Continue to represent DOE on each of the Clean Cities coalitions. </p> <p data-bbox="1459 1144 1869 1258"> Continue to serve as a liaison between the Clean Cities Tiger Teams and the coalitions. </p> <p data-bbox="1459 1299 1869 1485"> Continue to provide technical and financial assistance and active participation in “Advancing The AFV Choice” events for niche markets. </p>

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Program Activity	FY 2001	FY 2002	FY 2003
Regional Offices (Cont'd)	<p>Awarded State Energy Program (SEP) Special Projects grants and other public/private partnership grants.</p> <p>Organized and conducted Regional Coordinator Meetings. Helped coalitions begin developing four self-sustaining niche market activity centers.</p> <p>Assisted Clean Cities Coalitions develop and submit updated Program Plans and Memorandum of Understanding.</p> <p>Provided assistance on tools and communication/outreach products and resources for Clean Cities coalitions.</p> <p>Organized and conducted regional Voluntary Mobile Source Emissions Reduction Program (VMEP) workshops as part of the DOE/EPA Cooperative Initiative.</p> <p>Provided technical information on near-term advanced technologies, including hybrid-electric and fuel cell vehicles.</p>	<p>Continue monitoring and oversight of SEP Special Projects grants.</p> <p>Continue to provide assistance for Regional Coordinator Meetings.</p> <p>Assist coordinators in building self-sustaining coalitions.</p> <p>Continue to assist coalitions with the development of the four self-sustaining niche market activity centers.</p> <p>Continue to assist coalitions develop and submit updated Program Plans and Memorandum of Understanding</p> <p>Continue to provide assistance on tools and communication/outreach products and resources for Clean Cities coalitions.</p> <p>Continue activities and events in support of the DOE/EPA Cooperative Initiative.</p> <p>Continue to provide technical information on advanced technologies and vehicles.</p>	<p>Continue monitoring and oversight of SEP Special Projects grants.</p> <p>Continue to provide assistance for Regional Coordinator Meetings. .Will assist coordinators in building self-sustaining coalitions.</p> <p>Continue to assist coalitions with the development of the four self-sustaining niche market activity centers.</p> <p>Continue to assist coalitions develop and submit updated Program Plans and Memorandum of Understanding</p> <p>Continue to provide assistance on tools and communication/outreach products and resources for Clean Cities coalitions.</p> <p>Continue activities and events in support of the DOE/EPA Cooperative Initiative.</p> <p>Continue to provide technical information on advanced technologies and vehicles.</p> <p>Continue to actively participate in Clean Cities Strategic Planning.</p>

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Program Activity	FY 2001	FY 2002	FY 2003
Regional Offices (Cont' d)	<p>Actively participated in Clean Cities Strategic Planning with Office of Transportation Technologies and NREL staff via meetings and conference calls.</p> <p>Coalitions added over 15,700 light-duty AFVs and 800 heavy-duty AFVs. Coalitions also added 443 new public and 308 new private alternative fuel refueling stations and gathered fuel price survey information.</p> <p>Provided detailed technical information on regulations, legislation, and incentives, including the Energy Policy Act, Executive Orders, emissions and air quality requirements, and funding opportunities.</p> <p>Total: \$1,440 (Salaries and Related Expenses: \$980, Travel: \$107, Contract Support: \$96, Contractual Services and Landlord Expenses: \$257)</p>	<p>Continue to actively participate in Clean Cities Strategic Planning.</p> <p>Continue to provide detailed technical information on regulations, legislation, and incentives.</p> <p>Total: \$1,617 (Salaries and Related Expenses: \$1,039, Travel: \$159, Contract Support: \$67, Contractual Services and Landlord Expenses: \$352)</p>	<p>Continue to provide detailed technical information on regulations, legislation, and incentives.</p> <p>Total: \$1,332 (Salaries and Related Expenses: \$916, Travel \$51, Contract Support: \$59, Contractual Services and Landlord Expenses: \$306)</p>
Regional Offices (Cont' d)	Crosscutting Program Implementation/Assistant Secretarial Support	Crosscutting Program Implementation/Assistant Secretarial Support	Crosscutting Program Implementation/Assistant Secretarial Support

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Program Activity	FY 2001	FY 2002	FY 2003
Regional Offices (Cont'd)	<p>The aggregate allocation of \$1,882 for the six Regional Offices supported the following Crosscutting/EERE activities:</p> <p>Sensitized State Energy/Air Quality officials to regulatory requirements required to credit EE/RE technologies in State Implementation Plans (SIPS).</p> <p>Worked with Governors' Associations to ensure EERE's technologies and deployment programs were prominent features of state and regional plans to meet growing energy demands.</p> <p>Established the first "Sustainability Desk" at a FEMA Disaster Response Center in Los Alamos, NM. Staffed desk for 23 days. Counseled 224 families on green rebuilding. Implemented 28 projects under the Green Energy Parks MOU between DOE and DOI to focus attention on the benefits of EERE.</p>	<p>The aggregate allocation of \$1,755 for the six Regional Offices supports the following Crosscutting/EERE activities:</p> <p>At the request of State Energy Office officials and other customers continue "portfolio" delivery of all EERE programs allowing customer choice.</p> <p>Leverage resources and linking key customer/stakeholder investment decisions to EERE priorities.</p> <p>Work with Governors Associations and state air quality officials by encouraging EERE technologies and efficiency recommendations in SIPs.</p> <p>Support the Bioenergy Initiative through the Regional Biomass Energy Programs and work with State Energy Offices, customers and stakeholders to overcome barriers and increase outreach and education efforts.</p>	<p>The aggregate allocation of \$1,485 for the six Regional Offices supports the following Crosscutting/EERE activities:</p> <p>Strengthen public education, outreach and technical assistance programs in support of the NEP.</p> <p>Leverage resources by linking key customer/stakeholder investment decisions to EERE priorities.</p> <p>Facilitate program delivery through a "portfolio" of programs offering customers a choice based on priorities and needs.</p> <p>Continue work with State Air Quality officials to encourage use of EERE technologies in state SIPs plans.</p> <p>Support the Bioenergy Initiative and other programs/initiatives by reducing barriers and ensuring technology transfer to the marketplace.</p>
	<p>Worked on decision support tools and helped evolve projects including a Metro Vision Resource</p>	<p>Administer grants to State Energy Offices and local industries to</p>	<p>Work with Governors Associations to help them make informed choices on issues related to energy.</p>

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Program Activity	FY 2001	FY 2002	FY 2003
<p>Regional Offices (Cont'd)</p>	<p>Center in a major metropolitan area. Created a CD ROM for HUD's community builders.</p>	<p>expand the near-term use of biomass conversion technologies and provide reliable information to potential biomass users.</p>	<p>Continue work with the States and other key customer/stakeholders to address barriers to DER deployment.</p>
	<p>Maintained Regional Office websites and sponsored <i>www.sustainable.doe.gov</i> to promote EERE programs, technologies and provided contacts for customers.</p>	<p>Promote DER by providing information and technical assistance to the States and other customer/stakeholders to address barriers in the marketplace, enabling technology transfer.</p>	<p>Continue work with DOI/NPS to implement the Green Parks MOU.</p> <p>Continue to work with FEMA on disaster response, recovery and mitigation.</p>
	<p>Represented EERE on White House Task Force on Livable Communities.</p>	<p>Work with FEMA to provide support on disaster response, recovery, and mitigation. Provide EERE equipment in the event of a disaster.</p>	<p>Continue to work closely with State Energy Offices to gain their input into improving EERE program content and delivery while encouraging their full participation in education/outreach activities.</p>
	<p>Represented EERE at USA-Mexico Border Forum.</p>	<p>Provide market-based information on issues that impact EERE policy and programs</p>	<p>Provide market-based information on issues that impact EERE policy and programs.</p>
	<p>Held 6 public meetings to gather comments on EERE programs and technologies. Received over 4000 comments to help decision makers improve energy policy and programs.</p>	<p>Implement provisions of MOUs between DOE/EERE and other Federal agencies.</p>	<p>Implement provisions of MOUs between DOE/EERE and other Federal agencies.</p>
	<p>Spearheaded initiative for EERE promoting energy efficiency to ski industry.</p>	<p>Provide logistics/information and briefing material for high profile events/VIP visits for EERE and senior staff.</p>	<p>Provide logistics/information and briefing material for high profile events/VIP visits for EERE and senior staff.</p>
	<p>Supported EERE priorities programs by working with key private/public sector groups -</p>	<p>Represent EERE and senior staff at speaking engagements,</p>	

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Program Activity	FY 2001	FY 2002	FY 2003
	<p>NASEO, ECOS, NCSL, utilities, and others.</p> <p>Provided logistics/information and briefing material for ASEE at high profile events/VIP visits.</p> <p>Represent ASEE and senior staff at speaking engagements, conferences, and meetings.</p> <p>Total: \$1,881 (Salaries and Related Expenses: \$1,176, Travel: \$119, Contract Support: \$307, Contractual Services and Landlord Expenses: \$279)</p> <p>Management and Administration</p> <p>The aggregated allocation of \$3,411 for the six Regional Offices supported the following Management and Administration activities:</p> <p>Provided operational and resource management, budgeting and finance activities for 6 Regional Offices.</p>	<p>conferences, and meetings.</p> <p>Total: \$1,755 (Salaries and Related Expenses: \$1,204, Travel: \$123, Contract Support: \$64, Contractual Services and Landlord Expenses: \$364)</p> <p>Management and Administration</p> <p>The aggregated allocation of \$3,644 for the six Regional Offices will support the following Management and Administration activities:</p> <p>Provide human resource management for a budgeted 124 FTEs including recruitment, training, performance management, policies and</p>	<p>Represent EERE and senior staff at speaking engagements, conferences, and meetings.</p> <p>Total: \$1,485 (Salaries and Related Expenses: \$1,074, Travel: \$39, Contract Support: \$56, Contractual Services and Landlord Expenses: \$316)</p> <p>Management and Administration</p> <p>The aggregated allocation of \$2,981 for the six Regional Offices will support the following Management and Administration activities:</p> <p>Provide human resource management for a requested 119 FTEs including recruitment, training, performance management, policies and procedures, time and attendance management, etc.</p>
<p>Regional Offices (Cont'd)</p>			

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Program Activity	FY 2001	FY 2002	FY 2003
Regional Offices (Cont'd)	<p>Provided human resource management for actual 119 FTE usage including recruitment, training, performance management, policies and procedures, time and attendance management, etc (Budgeted 131 FTE).</p>	<p>procedures, time and attendance management, etc.</p>	<p>Continue oversight and monitoring of approximately 1000 end-use sector funded financial assistance agreements. This includes desk and on-site grant/project tracking and monitoring, grant initiation, amendment, closeout and archiving. Processing of all financial plan modifications and program letters.</p>
	<p>Provided oversight and monitoring of approximately 1000 end-use sector funded financial assistance agreements. This included desk and on-site grant/project tracking and monitoring, grant initiation, amendment, closeout and archiving. Processed all financial plan modifications and program letters.</p>	<p>Continue oversight and monitoring of approximately 1000 end-use sector funded financial assistance agreements. This includes desk and on-site grant/project tracking and monitoring, grant initiation, amendment, closeout and archiving. Processing of all financial plan modifications and program letters.</p>	<p>Continue to provide regional integration and delivery of EERE deployment programs and initiatives. This involves interaction at the RO staff and management level with stakeholders and HQ program managers, development of regional strategic plans, project and partnership facilitation, opportunity identification, resource identification from other DOE, Federal, regional, state and local resources.</p>
	<p>Provided regional integration and delivery of EERE deployment programs and initiatives. This involved interaction at the RO staff and management level with stakeholders and HQ program managers, development of regional strategic plans, project and partnership facilitation, opportunity</p>	<p>Continue to provide regional integration and delivery of EERE deployment programs and initiatives. This involves interaction at the RO staff and management level with stakeholders and HQ program managers, development of regional strategic plans, project</p>	<p>Information technology management including maintenance of local area networks, interaction with HQ's IT systems, website support, etc. RO staff provides data to numerous systems including procurement-PADS, financial-DISCAS, the Departmental time and attendance system and</p>

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Program Activity	FY 2001	FY 2002	FY 2003
<p>identification, resource identification from other DOE, Federal, regional, state and local resources.</p>	<p>Provided information technology management including maintenance of local area networks, interaction with HQ's IT systems, website support, etc. RO staff provided data to numerous systems including procurement-PADS, financial-DISCAS, the Departmental time and attendance system and WinSAGA.</p>	<p>and partnership facilitation, opportunity identification, resource identification from other DOE, Federal regional, state and local resources.</p>	<p>WinSAGA.</p>
	<p>Total: \$3,411 (Salaries and Related Expenses: \$2,073, Travel: \$157, Contract Support: \$544, Contractual Services and Landlord Expenses: \$637)</p>	<p>Total: \$3,644 (Salaries and Related Expenses: \$2,270, Travel: \$327, Contract Support: \$238, Contractual Services and Landlord Expenses: \$809)</p>	<p>Total: \$2,981 (Salaries and Related Expenses: \$1,967, Travel: \$105, Contract Support: \$206, Contractual Services and Landlord Expenses: \$703)</p>
<p>Subtotal, RO - Salaries and Related Expenses</p>	<p>\$12,428</p>	<p>\$13,323</p>	<p>\$11,429</p>
<p>Subtotal, Regional Offices - Contractual</p>	<p>\$4,061</p>	<p>\$4,727</p>	<p>\$3,586</p>

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Program Activity	FY 2001	FY 2002	FY 2003
Services			
Total, Regional Offices	\$16,489	\$18,050	\$15,015
Regional Offices - Object Classes and Subtotals	The following is a breakdown of budgeted funding by Object Class for the Regional Offices:	The following is a breakdown of the funding by Object Class for the Regional Offices:	The following is a breakdown of the funding by Object Class for the Regional Offices:
	11.9 Personnel compensation \$ 8,972	11.9 Personnel compensation \$ 9,460	11.9 Personnel compensation \$ 8,114
	12.1 Civilian personnel benefits \$ 2,243	12.1 Civilian personnel benefits \$ 2,363	12.1 Civilian personnel benefits \$ 2,028
	13.1 Benefits for former personnel \$ 0	13.1 Benefits for former personnel \$ 0	13.1 Benefits for former personnel \$ 0
	21.0 Travel and transportation of persons \$ 1,213	21.0 Travel and transportation of persons \$ 1,500	21.0 Travel and transportation of persons \$ 1,287
	22.0 Transportation of things \$ 60	22.0 Transportation of things \$ 75	22.0 Transportation of things \$ 50
	23.1 Rental payments to GSA \$ 1,968	23.1 Rental payments to GSA \$ 2,062	23.1 Rental payments to GSA \$ 2,105
	23.2 Rental payments to others \$ 87	23.2 Rental payments to others \$ 100	23.2 Rental payments to others \$ 100
	23.3 Communication, utilities, misc. charges \$ 395	23.3 Communication, utilities, misc. charges \$ 500	23.3 Communication, utilities, misc. charges \$ 500
	24.0 Printing and reproduction \$ 43	24.0 Printing and reproduction \$ 45	24.0 Printing and reproduction \$ 50
Regional Offices (Cont'd)	25.1 Advisory and assistance services and other services \$	25.1 Advisory and assistance services and other services \$ 800	25.1 Advisory and assistance services and other services \$ 411
	25.3 Purchases of goods/services from Govt. accounts \$	25.3 Purchases of goods/services	25.3 Purchases of goods/services from Govt. accounts \$ 100

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Program Activity	FY 2001	FY 2002	FY 2003
416		from Govt. accounts \$ 280	25.7 Operation and maintenance
25.3 Purchases of goods/services		25.7 Operation and maintenance	of equipment \$ 120
from Govt. accounts \$ 270		of equipment \$ 115	26.0 Supplies and materials \$ 150
25.7 Operation and maintenance		26.0 Supplies and materials \$ 200	31.0 Acquisition of equipment:
of equipment \$ 108		31.0 Acquisition of equipment:	ADP equipment \$ 0
26.0 Supplies and materials \$ 192		ADP equipment \$ 550	
31.0 Acquisition of equipment:			Regional Office Subtotals:
ADP equipment \$ 522			Atlanta \$ 2,704
Regional Office Subtotals:		Regional Office Subtotals:	Boston \$ 2,230
Atlanta \$ 3,147		Atlanta \$ 3,639	Chicago \$ 2,056
Boston \$ 2,266		Boston \$ 2,620	Denver \$ 3,198
Chicago \$ 2,517		Chicago \$ 2,475	Philadelphia \$ 2,412
Denver \$ 3,398		Denver \$ 3,639	Seattle \$ 2,415
Philadelphia \$ 2,392		Philadelphia \$ 2,620	
Seattle \$ 2,769		Seattle \$ 3,057	Total \$15,105
Total \$16,489		Total \$18,050	

International Market Development

Committee on Energy Efficiency Commerce and Trade (COEECT)

Continued to develop and implement an international strategy for U.S. energy efficiency industries; conduct trade missions to emerging markets; utilize local experts to assist U.S. firms in identifying viable customers;

Committee on Energy Efficiency Commerce and Trade (COEECT)

No funding is requested. (\$0)

Committee on Energy Efficiency Commerce and Trade (COEECT)

No activities. (\$0)

III. Performance Summary: Policy and Management

Program Activity	FY 2001	FY 2002	FY 2003
International Market Development (Cont'd)	continued focus on Asia markets and increased focus on Latin America. (\$1,200)		
	Energy Efficiency Centers Promote continued access to Energy Efficiency Centers through contracted work and Internet linkage. (\$100)	Energy Efficiency Centers No funding request. (\$0)	Energy Efficiency Centers No activities. (\$0)
	Asia Pacific Economic Cooperation (APEC) Continued the U.S.'s leadership role in energy efficiency subcommittees of this international cooperative effort. Continued dialogue and involvement with member countries. Continued to identify viable market opportunities and coordinate activities with EE industry. Showcase U.S. technologies in member countries. (\$590)	Asia Pacific Economic Cooperation (APEC) Continue the U.S. leadership role in this international cooperative effort. Continue dialogue and participation with member countries in energy efficiency activities. Showcase U.S. technologies in member countries. (\$600)	Asia Pacific Economic Cooperation (APEC) Continue the U.S. leadership role in this international cooperative effort. Implement APEC Sustainable Village activities in China. Continue dialogue and participation with member countries in energy efficiency activities. Showcase U.S. technologies in member countries. (\$585)
Center for the Analysis and Dissemination of Demonstrated Technologies (CADDET)	Center for the Analysis and	Energy and Environment Technology Centers (EETIC)	

III. Performance Summary: Policy and Management

Program Activity	FY 2001	FY 2002	FY 2003
International Market Development (Cont'd)	<p>Continued support for U.S. participation in this international cooperative effort. Support collection and dissemination of information on EERE technologies. Provided U.S. industry data on innovative applications of EE technologies in other countries. Conducted workshops to increase worldwide awareness of EE products and services. (\$660)</p>	<p>Dissemination of Demonstrated Technologies (CADDET)</p> <p>No funding is requested to continue U.S. participation in the International Energy Agency's Energy and Environmental Technology Information Center (IEA/EETIC) annexes. (\$0)</p>	<p><i>(Name change reflects combining of CADDET and GREENTIE as annexes under IEA's EETIC)</i></p> <p>Funding is requested under Energy Environment Technology Centers reflecting combination of CADDET and GREENTIE as annexes under IEA's EETIC. (\$65)</p>
	<p>Greenhouse Gas Technology Information Exchange (GREENTIE)</p> <p>Continued participation in this international effort to reduce greenhouse gas emissions. Continued support for the upkeep of the directory of green house gas technology centers and the supporting networks. Provided U.S. industry information on potential market opportunities in targeted regions. (\$50)</p>	<p>Greenhouse Gas Technology Information Exchange (GREENTIE)</p> <p>Continue U.S. membership in this International Energy Agency Energy and Environmental Technology Information Centers (IEA/EETIC) Annex for the support and up keep of an information directory on technology applications which reduce greenhouse gas emissions</p>	

III. Performance Summary: Policy and Management

Program Activity	FY 2001	FY 2002	FY 2003
		and support for regional networks to disseminate that data. (\$50)	
Total, International Market Development	\$2,600	\$650	\$650

Information and Communications Program

Energy Efficiency and Renewable Energy Clearinghouse (EREC)

Continued operation of EREC to provide technical assistance and information in response to public inquiries (approximately 60,000 per year). Improved timeliness and quality of products delivered to increase level of customer satisfaction; produce report on customer inquiries, responses and customer satisfaction. Assessed service improvements and evaluate project impacts. Produced more consumer-oriented materials to meet consumer demand. (\$1,150)

Energy Efficiency and Renewable Energy Clearinghouse (EREC)

Provide technical assistance in response to 110,000 public inquiries per year. (\$1,150)

Energy Efficiency and Renewable Energy Clearinghouse (EREC)

Provide technical assistance in response to 110,000 public inquiries per year. (\$1,150)

III. Performance Summary: Policy and Management

Program Activity	FY 2001	FY 2002	FY 2003
Information and Communications Program (Cont'd)	<p data-bbox="443 264 856 370">Energy Efficiency and Renewable Energy Network (EREN)</p> <p data-bbox="443 415 856 1019">Continue promotion and support of EREN, a coordinated system linking multiple existing information and technical assistance services. Improve development of website and update relevant and timely information on EERE programs and technologies. Use EREN to communicate and obtain feedback to facilitate closer collaboration with States, private industry, other Federal agencies and other external partners. This site is used to publish an increasing number of EERE studies and reports. (\$400)</p>	<p data-bbox="957 264 1371 370">Energy Efficiency and Renewable Energy Network (EREN)</p> <p data-bbox="957 415 1371 751">Web-based information and technical assistance services provided to EERE stakeholders. EREN plans to increase usage over the previous year by 15 percent, (8 million internet hits per month) while maintaining a 95+ percent customer satisfaction rating. (\$400)</p>	<p data-bbox="1455 264 1902 334">Energy Efficiency and Renewable Energy Network (EREN)</p> <p data-bbox="1455 380 1902 711">Web-based information and technical assistance services provided to EERE stakeholders. EREN plans to increase usage over the previous year by another 15 percent, (8 million internet hits per month) while maintaining a 95+ percent customer satisfaction rating. (\$400)</p>
Total, Information and Communications Program	\$1,550	\$1,550	\$1,550
TOTAL, POLICY AND MANAGEMEN T	\$46,046	\$46,415	\$42,706

III. Performance Summary: Policy and Management

Program Activity	FY 2001	FY 2002	FY 2003
Excluding Full Funding of Federal Retirements, Policy and Management ^a	\$43,274	\$43,470	\$40,053

^a The FY 2001 and FY 2002 columns of the Congressional Request include funding in the amounts of \$2,772,000 and \$2,665,000, respectively, for the Government's share of increased cost associated with pension and annuitant health care benefits. These funds are comparable to FY 2003 funding of \$2,653,000. (Note: The data is presented on a comparable basis as if the legislation had been enacted and implemented in FY 2001.)