

DEPARTMENT OF ENERGY  
FY 1996 CONGRESSIONAL BUDGET REQUEST  
ENERGY SUPPLY, RESEARCH AND DEVELOPMENT

OVERVIEW

ENERGY RESEARCH ANALYSES

The Office of Program Analysis (OPA) manages the Energy Research Analyses (ERA) Program to fulfill one of the major responsibilities of the Director of the Office of Energy Research. The Department of Energy Organization Act (Public Law 95-91) states "...it shall be the duty and responsibility of the Director [of the Office of Energy Research] (1) to advise the Secretary with respect to the physical research program...[and] (2) to monitor the Department's energy research and development programs in order to advise the Secretary with respect to any undesirable duplication or gaps in such programs...." Accordingly, the Office of Program Analysis arranges for and participates in the assessments of research projects and programs in order to evaluate the quality and impact of these efforts and to identify undesirable duplications and gaps.

There are two principal types of independent research assessments performed by OPA on programs throughout the Department. First, OPA staff organize comprehensive project by project evaluations of major research programs using outside experts from industry, academia and laboratories. These peer reviews of ongoing projects provide the basis for judgments on the quality of the research and its impact. Without these reviews less technically competitive projects might be continued. Second, technical assessments provide independent views of the directions that future R&D in specific areas of interest across the Department should take to be more productive and relevant to DOE missions. Research assessments are performed by outside experts and OPA staff drawing on the world's leading experts in the specific fields being addressed. State-of-the-science assessments by the Foreign Applied Sciences Assessment Center (FASAC), Japanese Technology Evaluation Center (JTEC) and JASON's are also performed.

The Office of Program Analysis project-by-project peer reviews of research in progress across the Department support the Department's core values dealing with excellence and quality. The reviews help program managers improve or replace projects that have significant shortcomings, and capitalize on the strengths of stronger projects.

The performance measure for the ERA program is the number of project reviews or assessments performed. One research needs assessment and approximately 300 project reviews can be performed at the requested level.

DEPARTMENT OF ENERGY  
 FY 1996 CONGRESSIONAL BUDGET REQUEST  
 ENERGY SUPPLY RESEARCH AND DEVELOPMENT  
 (Tabular dollars in thousands. Narrative in whole dollars.)

LEAD TABLE

Energy Research Analyses

<u>Activity</u>	<u>FY 1994 Adjusted</u>	<u>FY 1995 Appropriation</u>	<u>FY 1995 Adjustment</u>	<u>FY 1995 Adjusted</u>	<u>FY 1996 Request</u>
Operating Expenses.....	\$3,649	\$3,531	-\$124	\$3,407	\$3,463
Subtotal, Program.....	3,649	3,531	-124	3,407	3,463
Adjustment.....	-142 a/	-101 a/	0	-101 a/	0
Total, Program.....	<u>\$3,507 b/</u>	<u>\$3,430</u>	<u>-\$124</u>	<u>\$3,306</u>	<u>\$3,463</u>
 Summary					
Operating Expenses.....	\$3,507	\$3,430	-\$124	\$3,306	\$3,463
Total Program.....	<u>\$3,507</u>	<u>\$3,430</u>	<u>-\$124</u>	<u>\$3,306</u>	<u>\$3,463</u>

Authorization: Section 209, P.L. 95-91.

a/ Share of Energy Supply, Research and Development general reduction for use of prior year balances assigned to this program. The total general reduction is applied at the appropriation level.

b/ Excludes \$55,000 which has been transferred to the SBIR program and \$1,820 which has been transferred to the STTR program.

DEPARTMENT OF ENERGY  
FY 1996 CONGRESSIONAL BUDGET REQUEST  
ENERGY SUPPLY, RESEARCH AND DEVELOPMENT  
(Tabular dollars in thousands, narrative in whole dollars)

SUMMARY OF CHANGES

Energy Research Analyses

FY 1995 Appropriation.....	\$ 3,531
- Adjustment.....	<u>- 124</u>
FY 1995 Adjusted.....	\$ 3,407
- Increase support for peer reviews.....	<u>+ 56</u>
FY 1996 Congressional Budget Request.....	<u>\$ 3,463</u>

DEPARTMENT OF ENERGY  
 FY 1996 CONGRESSIONAL BUDGET REQUEST  
 ENERGY SUPPLY, RESEARCH AND DEVELOPMENT  
 (dollars in thousands)

KEY ACTIVITY SUMMARY  
 ENERGY RESEARCH ANALYSES

I. Preface: Energy Research Analyses

The Energy Research Analyses (ERA) program assesses research projects and programs in order to judge the significance of these efforts and to identify undesirable duplications and gaps. Peer reviews of individual research projects using outside experts are performed. Technical assessments to determine the direction of future research and state-of-the-science reviews are also performed.

II. A. Summary Table: Energy Research Analyses

Program Activity	FY 1994 Adjusted	FY 1995 Adjusted	FY 1996 Request	\$ Change
Energy Research Analyses.....	\$ 3,649	\$ 3,407	\$ 3,463	\$ 56
<b>Total, Energy Research Analyses</b>	<b>\$ 3,649</b>	<b>\$ 3,407</b>	<b>\$ 3,463</b>	<b>\$ 56</b>

II. B. Laboratory and Facility Funding Table: Energy Research Analyses

Oak Ridge National Lab .....	\$ 741	\$ 344	\$ 600	\$ 256
Argonne National Lab (East) .....	997	300	400	100
All Other .....	1,911	2,763	2,463	-300
<b>Total, Energy Research Analyses</b>	<b>\$ 3,649</b>	<b>\$ 3,407</b>	<b>\$ 3,463</b>	<b>\$ 56</b>

III. Activity Descriptions: (New BA in thousands of dollars)

Program Activity	FY 1994	FY 1995	FY 1996
Energy Research Analyses			
Energy Research Analyses	Continued to perform peer reviews of hundreds of projects in ER, FE and EE. Performed one technical assessment of research needs in FE, CE, or ER (e.g., catalysis). Supported external R&D review through groups outside OPA, e.g., JASON, FASAC, JTEC. Provided DOE's share of support for management and technical staff for NAPAP acid precipitation assessments.	Continue to perform peer reviews of hundreds of projects in ER, FE and EE. Perform one technical assessment of research needs in FE, CE, or ER (e.g., nanostructured materials). Support external R&D review through groups outside OPA, e.g., JASON, FASAC, JTEC. Provide DOE's share of support for management and technical staff for NAPAP acid precipitation assessments.	Continue to perform peer reviews of approximately 300 projects in ER, FE and EE. Perform one technical assessment of research needs in FE, CE, or ER (e.g., advanced composite materials). Support external R&D review through groups outside OPA, e.g., JASON, FASAC, JTEC.
	Funding in the amount of \$55,000 and \$1,820 has been transferred to the SBIR program and the STTR program, respectively.	Funding in the amount of \$66,000 and \$3,306 has been budgeted for the SBIR program and the STTR program, respectively.	Funding in the amount of \$69,260 and \$5,195 has been budgeted for the SBIR program and the STTR program, respectively.
	\$ 3,649	\$ 3,407	\$ 3,463
Energy Research Analyses	\$ 3,649	\$ 3,407	\$ 3,463