



PN. ABU-497 95025

*Center for Environment  
Office of Energy, Environment, and Technology*

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**Directory  
1994-1995**

U.S. Agency for International  
Development  
Bureau for Global Programs,  
Field Support, and Research  
Center for Environment  
Office of Energy, Environment,  
and Technology  
Washington, D.C. 20523-1810



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Office of Energy, Environment, and Technology*

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1994-1995**



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## **How to Contact the Global Bureau's Office of Energy, Environment, and Technology**

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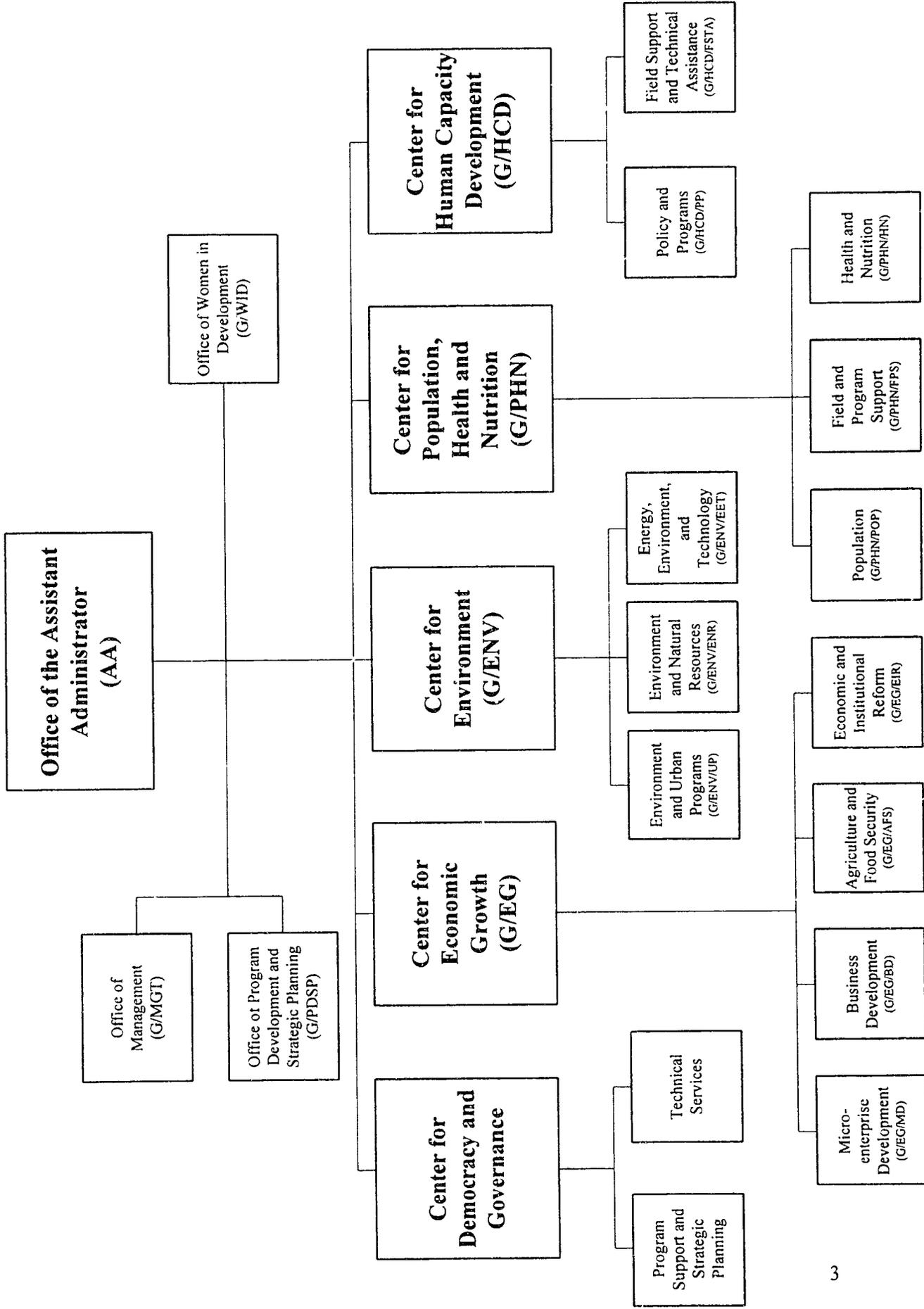
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# Bureau for Global Programs, Field Support, and Research



# Center for Environment Office of Energy, Environment, and Technology

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*Contractor: US/ECRE (REAT)
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<b>Energy Training Program (ETP)</b>
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Deputy, M. Murray (RSSA)
Admin. Assistant, J. Stebbins (RSSA)
Contractor: Institute for Int'l. Education
Project Manager: A. Ghamarian
Contractor: U.S. Energy Association
Project Manager, B. Worthington
Contractor: USTTI
Project Manager, W. Warren

\* Primary Contractor

# Mission Statement

## Office of Energy, Environment, and Technology

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### Mission

USAID's Office of Energy, Environment, and Technology is a part of the Center for Environment and helps developing countries and emerging economies find market-oriented solutions to their energy and environmental problems.

### The Problem

Lack of energy is seriously curtailing economic growth in developing countries and countries in transition. Expansion of energy supplies places a huge financial burden on, and increases environmental threats in, these countries. In addition, many countries lack the institutional capability and appropriate technology to operate and manage energy systems efficiently. These issues contribute to energy development being a leading contributor to global climate change as well as regional and local environmental problems.

### The Office's Two-Fold Strategy

The way out of this bind is through higher energy efficiency and a switch to renewable energy and other environmentally sound technologies. Private investment must be encouraged to finance these improvements, and technical assistance and training must be provided to build institutional capability. The Office offers a two-fold strategy to address these issues:

- *Tapping U.S. know-how: The Office arranges cooperative relationships to promote energy efficiency and greater use of clean and innovative energy and environmental technologies. Key partners in this process include developing countries, the U.S. energy and environment industries, other federal agencies, multilateral development banks, and nongovernmental organizations.*
- *Promoting private sector initiatives: The Office helps developing countries put in place market-oriented policies and institutions to support private energy and environmental initiatives.*

The Office brokers technology cooperation among U.S. energy and environment industries and developing countries in order to make the most state-of-the-art appropriate products and services available. This provides developing countries with access to world-class commercially viable technology and management practices. It also helps U.S. industry become more competitive in the international marketplace.

### Office Activities

- innovative financing mechanisms such as investment funds, and better access to multilateral sources of funds
- policy, legislative, and regulatory development assistance
- reports and workshops on market conditions and opportunities
- training and information dissemination
- engineering and other technical assistance

*The Center for Environment is the focal point for USAID's environmental program. It serves as a center of international excellence to provide field support to U.S. bilateral assistance efforts, manage global environment program activities, oversee the Agency's environmental research efforts, and serve as the principal liaison for USAID on technical environmental issues with the USG, among NGOs, with universities and with other bilateral and multilateral donors.*

## **Program Overview**

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The U.S. Agency for International Development's (USAID) Office of Energy, Environment, and Technology plays an increasingly important role in providing innovative mechanisms and approaches for solving the growing energy and environmental crisis in USAID-assisted countries. The Office of Energy, Environment, and Technology is part of the Center for Environment situated in USAID's Bureau for Global Programs, Field Support, and Research. The Office helps to set energy policy direction for the Agency, while making its projects available to meet the generic and short-term needs of USAID's field offices in assisted countries.

Three problems drive the Office's programs: high rates of energy demand and economic growth accompanied by lack of energy, especially power in rural areas; financial problems, including a lack of investment capital, especially in the electricity sector; and growing environmental threats, especially global climate change, acid rain, and urban air pollution.

Problems as complex as these have required the Office to adopt the following interrelated themes in response:

1. Energy Efficiency
2. Renewable Energy
3. Private Sector Energy Development
4. Energy Technology Innovation
5. Training/Technical Assistance
6. Project Development

Each of the above corresponds to a discrete Office project. Because of the interrelated nature of these themes, cooperation among Office projects is common and encouraged.

### **Energy Efficiency**

Improving energy efficiency is the easiest and least expensive way to avoid the need for new power plants and to reduce greenhouse gas and other pollutants. Greater energy efficiency helps lower a nation's economic burden from energy imports. Optimizing consumption patterns, power conversion, transmission, and distribution on the supply-side can also yield substantial savings. The Office implements policy reform, training, and encouragement of private power production to increase efficiency. (See EEP, page 11.)

**Renewable Energy** Renewable energy technologies play an increasingly important role in many nations' energy strategies while mitigating energy's environmental impacts. In general, renewable energy resources reduce pollution, greenhouse gas emissions, and dependence on imported fossil fuels. In addition, they are conducive to electrifying remote communities or homes, where even small amounts of electrical power can dramatically raise living conditions. Today's renewable technologies are proving to be more cost competitive than in prior years, making these innovations even more attractive for rural use and as part of mixed resource systems. Larger renewable systems, including those based on geothermal, solar, and wind energy, as well as the use of biomass for cogeneration all show increasing promise relative to conventional fossil fuel options. (See BEST, page 15; REAT, page 17.)

**Private Sector Energy Development**

Clean efficient energy production through privatization and policy reform offers the most immediate means to address the large power needs of developing countries in the most efficient and environmentally-sound manner. In order to maximize profits, private power developers are forced to be more efficient than their public sector counterparts in monitoring resource use and operations. Private involvement in a host country's power sector helps accelerate economic growth and social development by immediately alleviating power shortages and other energy-related problems that restrict growth. Equally important is relief from the capital burden placed on the governments of many developing countries. In countries that have public power sectors, as much as 40% of the budget goes to supporting that public power sector. With the much-needed capital infusion that comes with private sector participation, more government funds can be used for environmental or health programs. As a result of their access to capital, flexibility to make more responsive decisions, and inclination to use the most competitive environmental technologies, private power developers often lead the way in implementing the most advanced, environmentally-sound, cost-effective energy technologies. (See PSED, page 19.)

**Energy Technology Innovation**

Sustainable economic and environmentally sound growth in USAID-assisted countries is consistently hindered by capital shortages, institutional constraints, and environmental degradation. To alleviate these problems, the Office provides technical assistance to identify innovative and cost-effective solutions utilizing U.S. developed environmental technologies, and operations and management techniques. Innovative solutions that utilize indigenous resources, maximize existing capabilities, and increase energy efficiency can result in an increase in economic savings and environmental benefits. (See ETIP, page 21.)

## **Training**

Nearly every aspect of the Office's portfolio incorporates energy-related training activities for local energy and environmental professionals and telecommunications specialists. These activities are crucial to the exchange of information necessary to identify, utilize, and manage energy resources effectively. (See ETP, page 23; USTTI, page 25.)

The Office contributes to the energy and environment sectors in USAID-assisted countries in these six ways:

- Improving the efficient use of energy resources
- Promoting environmentally benign and renewable power production systems
- Encouraging private power initiatives
- Priming the pumps of energy sector innovation
- Strengthening institutions with technical training
- Stabilizing the investment environment through leveraged funding

As energy is essential to nearly all economic activity, these contributions are central to the processes of social and economic development at the local and national levels and bear significantly on the fate of the global environment.

## Office Activities

### Energy Efficiency Project (EEP)

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<b>Purpose</b>	To implement activities and help develop long-term policies and projects in USAID-assisted countries that will reduce energy consumption and CO <sub>2</sub> emissions and contribute to a reduction of global warming.
<b>Services Available</b>	Technical assistance, energy audits, feasibility studies, pilot projects, policy development and institutional support, sectoral energy efficiency programs, technology cooperation, information dissemination, training, and public education and awareness programs.
<b>Beneficiaries</b>	Local energy consumers, developing country economies, and the global community.
<b>Description</b>	<p>EEP offers global technical and management services to the public and private sectors in countries where the Agency is active. The project provides services in four areas:</p> <ol style="list-style-type: none"><li>1. Global Climate Change: EEP collaborates with countries to evaluate the environmental impacts of energy generation and use those evaluations to mitigate the effects of global warming.</li><li>2. Energy Efficiency and Environmental Improvement: EEP provides technical, economic and policy tools to improve energy efficiency in power, industry, transport, and buildings. In partnership with developing country institutions, EEP designs and implements demand-side management and integrated resource planning programs. EEP prepares energy efficiency and cogeneration projects for investment, and designs innovative loan portfolios with multilateral banks.</li><li>3. Technology Cooperation: EEP works closely with the private sector in the U.S. and in developing countries to assess markets and technologies for energy efficiency and environmental control. The project offers policy and institution-building advice, and trade and investment services to ensure effective implementation.</li><li>4. Capacity Building and Information: EEP collaborates with developing country institutions to conduct training programs and workshops in energy efficiency using state-of-the-art approaches. EEP provides information and access to data bases and networks of technology vendors, utilities, project investors, research and development institutions, and energy service companies.</li></ol>
<b>Accomplishments</b>	In the first six months of the project, EEP has launched several long-term initiatives. EEP has developed a work plan for the EMCAT (Energy Management Consultation and Training) program in India, which includes a \$3 million Mission buy-in. EEP has initiated a three-year industrial demand-side management project in Mexico, which involves a pilot program on motor efficiency improvement. EEP is cooperating with the Inter-American Development Bank to initiate energy efficiency in energy lending to Latin America and the Caribbean. EEP is operating in close

cooperation with other USAID projects. It is working with PSED and ETP projects to integrate both efficiency and private participation in the power sector in India; cooperating with ETP in the design of both in-country and U.S.-based training programs on integrated resource planning and demand-side management; and mounting a cooperative effort with the Asia Environmental Partnership to develop a clean power initiative in Asia, initially focusing on Thailand and India. EEP has initiated a global partnership to ensure universal access to timely, high-quality information related to energy and the environment. This Global Energy and Environment Network (GLEEN) focuses on identifying information needs and delivering the needed information using modern methods such as the Internet.

<b>Project Number</b>	936-5743
<b>Duration</b>	9/92-10/99
<b>Contractor</b>	RCG/Hagler, Bailly, Inc. 1530 Wilson Boulevard, Suite 900 Arlington, VA 22209-2406 Phone: (703) 351-0300/Fax: (703) 351-9342 John Armstrong, Project Manager
<b>Geographic Scope</b>	Global
<b>Contract Number</b>	PCE-5743-C-00-2073-00
<b>USAID Project Officer</b>	David Jhirad
<b>Other Cooperating Agencies and Organizations</b>	Inter-American Development Bank The Alliance to Save Energy American Council for an Energy-Efficient Economy Robert W. Anderson & Associates International Institute for Energy Conservation Lawrence Berkeley Laboratory Oak Ridge National Laboratory Power Tech Associates, P.C. The World Bank

# **Biomass Energy Systems and Technology (BEST)**

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<b>Purpose</b>	To identify and reduce the technical, economic, financial, and institutional risks of investments in biomass-fueled power production in developing countries.
<b>Services Available</b>	Industry resource assessments, feasibility studies, technical assistance, workshops, technical exchanges, and information dissemination.
<b>Beneficiaries</b>	Energy consumers, biomass producers, plant operators, and electric utilities.
<b>Description</b>	BEST conducts industry-wide resource assessments, project assessments, technology adaptation activities, workshops, technical exchanges, and a variety of project support activities for private developers, including the cost-sharing of project pre-investment studies. BEST focuses primarily on the generation of electricity from agricultural residues, such as crop wastes from sugar and rice production, and from the wood wastes of forest product industries. The project promotes the use of commercially proven technologies and systems adapted to developing country conditions.
<b>Accomplishments</b>	<p>BEST has worked extensively to stimulate the development of expanded sugar industry power generation in Central America and Asia. Comprehensive assessments of industry potential, avoided cost electricity pricing, and electric system interconnection requirements have helped to provide a framework for expanded sugar factory cogeneration in Costa Rica, Guatemala, India, Indonesia, and Thailand. Sugar mills in Costa Rica, Guatemala, and Thailand are now delivering power to the electric grid. By sharing the costs of pre-investment analyses, BEST has supported the efforts of private companies to develop prospective sugar factory cogeneration projects in Jamaica and the Philippines. BEST has also worked extensively to bring a promising new fuel--sugarcane field trash--to commercial utilization by conducting field recovery trials in Thailand and developing data collection protocols for recovery and boiler tests.</p> <p>A comprehensive assessment of the potential for wood waste power generation in the Honduran wood products industry, followed by a site-specific project feasibility analysis at a sawmill, have provided a framework and investment analysis methodology for the development of wood waste cogeneration in Honduras. BEST has also cost-shared pre-investment work with private developers for agriculture and municipal solid waste power projects in Pakistan, the Philippines, and the Dominican Republic. To assist local and U.S. project developers in identifying project opportunities, BEST has cooperated with the Office's Renewable Energy Applications and Training (REAT) project to establish project support offices in Costa Rica, Indonesia, Philippines, and Guatemala and plans to establish additional offices in other key countries. BEST has also helped accelerate the development and commercialization of biomass gasifier/advanced gas turbine technology, which is expected to achieve twice the energy conversion efficiency of conventional power production systems.</p>

**Project Number** 936-5737  
**Duration** 5/89 - 9/96  
**Grantee** Winrock International  
1611 North Kent Street, Suite 600  
Arlington, VA 22209  
Phone: (703) 525-9430/Fax: (703) 243-1175  
John Kadyszewski, Project Manager

**Geographic Scope** Global

**Cooperative Agreement Number** DHR-5737-A-00-9058

**USAID Project Officer** Ross Pumfrey

**Other Cooperating Agencies and Organizations**

U.S. Department of Energy  
U.S. Environmental Protection Agency  
Princeton Center for Energy & Environmental Studies  
Yale University Tropical Resources Institute  
U.S. Export Council for Renewable Energy  
U.S. National Wood Energy Association  
National Rural Electric Cooperatives Association  
Hawaiian Sugar Planters Association  
Biomass Users Network  
The World Bank  
Rockefeller Foundation  
Pacific Gas & Electric Company

## **Renewable Energy Applications and Training Project (REAT)**

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<b>Purpose</b>	To promote and assist in the application of economically and environmentally sustainable renewable energy technologies in developing countries.
<b>Services Available</b>	Renewable energy project identification, design, preparation for financing, and development; education and training; economic and technical evaluation; trade mission support; and provision of educational and promotional information on technologies, applications, and U.S. vendors.
<b>Beneficiaries</b>	Developing-country professionals; energy users, including urban electric utilities and rural populations in non-electrified regions; and renewable energy industries in the U.S. and the host countries.
<b>Description</b>	The REAT project promotes the use of cost-effective renewable energy technologies and applications utilizing hydro, geothermal, solar and wind resources, as well as selected biomass resources. With an emphasis on private-sector participation, REAT assists in the identification of "bankable" commercial projects and in sharing the cost of pre-investment studies that can leverage project financing and implementation. REAT also works with host-country government institutions, USAID Missions, and private sector interests to design, develop, and evaluate renewable energy projects and programs that will lead to large-scale procurements or to the application of specific technologies. REAT supports host-country participation in trade missions and training programs in the U.S. and supports U.S. industry trade missions to developing countries.
<b>Accomplishments</b>	During 1993, REAT continued its support of various funding mechanisms for the preparation of project pre-investment studies. The International Fund for Renewable Energy and Efficiency (IFREE), which shares the cost of project pre-feasibility studies, awarded IPC/Westinghouse Electric funding to analyze renewable energy opportunities for rural electrification in Indonesia using hybrid systems. International Applied Engineering received funds for a study of a 2 MW municipal solid waste-to-energy plant on the Cook Islands. REAT has established in-country Renewable Energy Project Support offices (REPSOs) in Costa Rica, Indonesia, the Philippines, and Guatemala through Winrock International to fund project design and pre-investment work. The Costa Rica REPSO has supported pre-investment feasibility studies for four projects, and the developers are now negotiating with the national utility for power purchase agreements. REAT also provides core funding to the Environmental Enterprises Assistance Fund (EEAF), which has a line of credit from other USAID sources and the Rockefeller Foundation to provide financing for environmental businesses. EEAF has established local investment companies in Costa Rica and Indonesia, made investments in companies in those countries, and planned, organized, and conducted an "environmental entrepreneurship" training program in collaboration with a local business school in Indonesia.

The REAT project funded a pre-feasibility study for a wind farm in Costa Rica that subsequently received a grant from the World Bank's Global Environment Facility and financing from the Inter-American Development Bank.

<b>Project Number</b>	936-5730
<b>Duration</b>	7/85 - 9/95
<b>Cooperators</b>	U.S. Export Council for Renewable Energy (US/ECRE) Environmental Enterprises Assistance Fund (EEAF)
<b>Geographic Scope</b>	Global
<b>Contractor</b>	U.S. Export Council for Renewable Energy (US/ECRE) 122 C Street, N.W., 4th Floor Washington, D.C. 20001 Phone: (202) 408-0665/Fax: (202) 408-8536 Judy Siegel, Project Manager
<b>Cooperative Agreement Number</b>	DHR-5730-A-000086
<b>Contractor</b>	Environmental Enterprises Assistance Fund (EEAF) 1611 N. Kent St., Suite 202 Arlington, VA 22209 Phone: (703) 522-5928/Fax: (703) 522-6450 Brooks Browne, Project Manager
<b>Cooperative Agreement Number</b>	DHR-5730-A-1065-00
<b>USAID Project Officer</b>	Ross Pumfrey
<b>Other Cooperating Agencies and Organizations</b>	The World Bank U.S. Department of Energy U.S. Environmental Protection Agency The Inter-American Development Bank Committee on Renewable Energy Commerce and Trade Volunteers in Technical Assistance National Renewable Energy Laboratory National Rural Electrification Cooperative Association

## Private Sector Energy Development Program (PSED)

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<b>Purpose</b>	To remove policy and institutional barriers to private sector energy development; provide direct assistance in energy project development; and foster the development of privately-owned power plants and energy projects consistent with environmental requirements.
<b>Services Available</b>	Technical assistance, policy dialogue, workshops and seminars, and information dissemination.
<b>Beneficiaries</b>	Because the PSED Project has two primary goals -- to provide technical assistance and to disseminate information -- the beneficiaries of PSED can be broken into two groups. Energy consumers in developing countries, host country government and utility institutions, and host country government and utility officials are the sole beneficiaries of PSED's technical assistance, but they also benefit from the information provided by the PSED office. Private power developers and others in the power generation industry in developing countries and the U.S. benefit solely from PSED's information dissemination. This includes numerous publications such as the <i>Private Power Reporter</i> and the Business Focus Series.
<b>Accomplishments</b>	<p>PSED has promoted the environmental and economic benefits of privately-owned electric power generation by encouraging the idea that private sector participation helps governments utilize their own resources more effectively, capitalize on the technical and managerial expertise of private energy companies, and access new sources of capital. PSED's technical assistance consists of advising USAID Missions and host country governments on the private power development process, environmental issues associated with the power sector, and on the implementation of new legislative and regulatory policies as well as modification of existing policies and institutions which could accelerate sustainable social and economic development while meeting energy shortages and protecting the environment. PSED has provided technical assistance to several countries including Armenia, Bangladesh, Belarus, Bolivia, Colombia, Costa Rica, the Dominican Republic, Egypt, El Salvador, Guatemala, India, Mongolia, Nepal, Nigeria, Panama, the Philippines, Russia, and Thailand. PSED has conducted and participated in conferences, seminars, and workshops which have facilitated dialogue, encouraged private sector investment in private power generation, and demonstrated the positive relationship of private power to the environment in countries such as Argentina, Indonesia, Jamaica, and Malaysia.</p> <p>To date, the Energy Project Development Fund has cost-shared with 16 subcontractors to conduct feasibility studies for power projects overseas. These studies have been performed in Costa Rica, the Dominican Republic, India, Indonesia, Jamaica, Malaysia, Mexico, Philippines, Russia, Thailand, and Ukraine. The technologies have included hydro, cogeneration, coal, oil, gas, and geothermal.</p>

<b>Project Number</b>	936-5738
<b>Duration</b>	3/89 - 8/99
<b>Contractors</b>	K&M Engineering and Consulting Corporation Price Waterhouse
<b>Geographic Scope</b>	Global
<b>Contractor</b>	K&M Engineering and Consulting Corporation Private Sector Energy Development Program 1601 North Kent St., Suite 1102 Arlington, VA 22209 Phone: (703) 524-4400/Fax: (703) 524-3164 Jeffrey Humber, Project Manager
<b>Contract Number</b>	DHR-5738-C-00-1088-00
<b>Contractor</b>	Price Waterhouse Energy Project Development Fund 1601 North Kent St., Suite 914 Arlington, VA 22209 Phone: (202) 522-4849/Fax: (202) 528-2280 Laura M. Barnard, Fund Administrator
<b>Contract Number</b>	DHR-5738-C-00-0097
<b>USAID Project Officer</b>	Samuel Schweitzer
<b>Other Cooperating Agencies and Organizations</b>	The World Bank U.S. Department of Commerce U.S. Department of Energy U.S. Trade and Development Agency

## Energy Technology Innovation Project (ETIP)

<b>Purpose</b>	The Energy Technology Innovation Project (ETIP) was created with a mandate to foster sustainable economic and environmentally sound development in USAID-assisted countries by supplying innovative energy solutions for supply/end-use problems, export constraints; import dependencies, and associated environmental degradation.
<b>Services available</b>	Engineering services, energy and environmental technologies, technology transfer and training, country and resource assessments, and energy systems analysis
<b>Beneficiaries</b>	Energy and power sector institutions and their industrial, commercial, and residential consumers.
<b>Description</b>	ETIP works to ensure sustainable economic and environmentally sound development in USAID-assisted countries by providing technical and institutional assistance in areas that promote energy efficiency and availability in an environmentally benign manner including: rehabilitation of energy facilities; cogeneration; advanced power cycle re-powering; state-of-the-art instrumentation and control applications; fuel quality improvements; application of plant component condition diagnostics; and end-use efficiency improvement. Assistance is also provided to improve output performance and management practices at parastatal and private energy utilities. Working with USAID Missions, ETIP performs assessments of specific country energy technology needs. Technology and information transfers are effected through workshops, seminars, in-country technology demonstrations, and technology and reverse technology missions. ETIP also provides technical support to multilateral development banks for energy projects.
<b>Accomplishments</b>	<p>Examples of ETIP accomplishments include:</p> <ul style="list-style-type: none"><li>■ Provided technical assistance to Armenia to evaluate existing condition and actions required to complete Hrazdan Unit No. 5 that resulted in expedited approval of a \$60M European Bank for Reconstruction and Development (EBRD) loan.</li><li>■ Provided support to develop emergency energy supply options and to explore indigenous oil and gas resources.</li><li>■ Conducted an assessment of natural gas distribution systems in Russia to identify potential investments for approximately \$200M in World Bank loans to upgrade the distribution system, improve end-use efficiency, and increase system safety, operation, and management.</li><li>■ Evaluated natural gas flaring and assessed the technical and financial feasibility of a gas processing facility in Siberia to identify potential investments for more than \$300M in World Bank loans to reduce flaring and enhance gas utilization.</li><li>■ Assessed the technical and financial feasibility of a cogeneration plant in Southeastern Thailand utilizing various conventional and advanced coal technologies.</li></ul>

**Project Number** 936-5741  
**Duration** 4/90 - 9/99  
**Contractor** Bechtel Corporation  
1601 North Kent Street, Suite 914  
Arlington, VA 22209  
Phone: (703) 528-4488/Fax: (703) 528-2280  
Frederick V. Karlson, Project Manager  
**Geographic Scope** Global  
**Contract Number** DHR-5741-C00-1061  
**USAID**  
**Project Officer** Samuel Schweitzer

**Other Cooperating Agencies and Organizations**

The European Bank for Reconstruction and Development  
Viking Systems International  
Core International, Inc.  
Price Waterhouse  
U.S. Department of Energy  
U.S. Department of Commerce  
U.S. Environmental Protection Agency  
U.S. Trade and Development Agency  
U.S.-ASEAN Council for Business and Technology, Inc.  
U.S. Chamber of Commerce  
U.S. Energy Association  
The World Bank

## Energy Training Program (ETP)

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- Purpose** To provide training for energy and environmental professionals from developing countries in how best to identify, utilize, and manage their energy resources.
- Services available** U.S.-based courses, in-country workshops, study tours, internships, and training needs assessments.
- Beneficiaries** Trainees, energy producers, and consumers.
- Description** ETP provides practical, hands-on training for energy and environmental professionals from USAID-assisted countries. The training covers the full range of energy options from conventional to alternative energy sources, as well as electricity generation, transmission and distribution. Recent courses have focused on energy efficiency, privatization, renewable energy technologies, pollution monitoring and management, and planning for sustainable energy development. ETP's training activities include U.S.-based courses offered on a regular schedule, which train practitioners how to do the job, and executive in-country workshops for senior decision makers which examine methods, options, and incentives available for sustainable energy development. ETP participants receive skills-oriented training as well as access to modern U.S. technologies, methodologies, and management techniques.
- Accomplishments** To date, ETP has trained 2,616 participants from 92 countries: 1,882 participants graduated from U.S.-based courses, 612 from in-country workshops, and 122 from internships.
- During Fiscal Year 1994, ETP expects to train 558 energy and environmental professionals from USAID-assisted countries.

<b>Project Number</b>	936-574
<b>Duration</b>	8/87 - 8/97
<b>Contractors</b>	Institute of International Education (IIE) United States Energy Association (USEA)
<b>Geographic Scope</b>	Global
<b>Contractor</b>	Institute of International Education (IIE) 1400 K Street, N.W., Suite 650 Washington, D.C. 20005 Phone: (202) 682-6560/Fax: (202) 682-6576 Ahmad Ghamarian, Project Manager
<b>Contract Number</b>	PCE-5734-C-00-2062

**Cooperator** United States Energy Association (USEA)  
1620 Eye Street, N.W., Suite 615  
Washington, D.C. 20006  
Phone: (202) 331-0415/Fax: (202) 331-0418  
Barry Worthington, Project Manager

**Cooperative**  
**Agreement Number** DHR-5734-A-00-0091

**USAID**  
**Project Officer** Carol Pierstorff

**Other Cooperating Agencies and Organizations**  
The World Bank  
U S. Department of Commerce  
U.S. Department of Energy  
U.S. Environmental Protection Agency

# United States Telecommunications Training Institute (USTTI)

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- Purpose** To provide telecommunications and broadcast training for communications professionals from developing countries
- Services available** Training
- Beneficiaries** Trainees, users of communications services in trainees' home countries, and U.S. communication companies.
- Description** The United States Telecommunications Training Institute (USTTI) is a nonprofit corporation that provides tuition-free communications instruction to professionals from the developing world. USTTI courses are offered in topics such as privatization concepts for both telephone and broadcasting, spectrum management, telephone network management, broadcast studio design, satellite communications, and regulatory structures. USTTI training is provided in cities throughout the U.S. by over 84 corporations, governmental agencies, universities, and international organizations. Participants are required to return home immediately after completion of their programs in order to put their newly acquired knowledge and skills to use in their own countries.
- Accomplishments** In 1993, the USTTI received 5,843 applications for 791 available training slots. With the 456 women and men trained in 1993 (some participants take multiple courses), the USTTI has now graduated a total of 3,458 communications professionals who manage the telecommunications and broadcast facilities in over 100 developing nations. In 1994, the USTTI will offer a curriculum of 93 courses with 892 training slots.

<b>Project Number</b>	936-5730
<b>Duration</b>	7/85 - 9/95
<b>Cooperator</b>	United States Telecommunications Training Institute (USTTI) 1150 Connecticut Avenue, N.W. Suite 702 Washington, DC 20006 Phone: (202) 785-7373/Fax: (202) 785-1930 Wade Warren, Project Manager
<b>Geographic Scope</b>	Global

**Cooperative**

**Agreement Number**      LAG-5838-A-00-3010-00

**USAID**

**Project Officer**              Carol Picrstorff

**Other Cooperating Agencies and Organizations**

U.S. Department of State

Federal Communications Commission

U.S. Department of Commerce

U.S. Information Agency

International Telecommunications Union

## **Office of Energy, Environment, and Technology (EET) Staff Bio-Sketches**

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### **Alberto J. Sabadell, Acting Director**

Alberto Sabadell is the Acting Director of the Office of Energy, Environment, and Technology. He worked with the MITRE Corporation on advanced fossil fuel technologies and with AeroChem Research Labs on air pollution control and instrumentation (including the now-standard EPA method to measure nitrogen oxides by chemiluminescence) prior to joining the Office in 1983. Mr. Sabadell was a professor of fluid mechanics at the National University of Buenos Aires in Argentina. He has more than 40 publications to his credit, including two patents, and currently serves on a National Academy of Sciences engineering panel. He holds bachelor's and Licentiate in Chemistry degrees from the National University of Buenos Aires and a master's degree in Aerospace Sciences from Princeton University. He is fluent in Spanish, French, Italian, and Catalan.

### **David J. Jhirad, Senior Energy Advisory, Energy Efficiency Program (EEP), Acting Deputy Director (EET)**

David Jhirad directs programs on international energy and environmental policy and planning, with a focus on global climate change, energy efficiency, technology cooperation, and policy and regulatory reform. He received a bachelor's degree in Physics and Applied Mathematics from Delhi University, bachelor's and master's degrees in Physics from Cambridge University in England, and a doctorate in Physics from Harvard University, where he received the Bowdoin Prize for excellence in research. Dr. Jhirad has held senior scientific appointments at the Union of Concerned Scientists, Brookhaven National Laboratory, the Jet Propulsion Laboratory, and the IBM Research Center. He has taught courses in energy, environment, and development at Boston University, the University of Massachusetts, and Brookhaven National Laboratory. Dr. Jhirad chairs the Energy Working Group of the Indo-U.S. Science and Technology Subcommission, serves on the Editorial Board of the Annual Review of Energy and Environment, and is a member of the Consultative Group for the World Bank Energy Sector Management Assistance Program. He is co-author of Energy Strategies: Toward a Solar Future and has written over 60 technical papers on energy and environmental policy, global climate change, technology innovation, and advanced power technology.

### **Ross Pumfrey, Project Officer, Renewable Energy Programs (BEST, REAT)**

Ross Pumfrey oversees the Office's renewable energy projects including relevant programs in marketing development, education, and policy reform. He earned a bachelor's degree in Political Science from Occidental College, a master's degree in Energy and Resources from the University of California at Berkeley, and is expecting to receive a master's degree in Latin American Studies from the Johns Hopkins University. Mr. Pumfrey has analyzed energy policy and development for Oak Ridge National Laboratory, the Renewable Energy Institute, the International Institute for Environment and Development, and the Institute for Government Studies at the University of California at Berkeley. Prior to his involvement with energy development, he worked for several years as a political organizer, legislative aide, and administrator for non-profit advocacy groups.

## **Office of Energy, Environment, and Technology (EET) Staff Bio-Sketches (continued)**

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### **Samuel Schweitzer, Project Officer, Energy Technology Innovation (ETIP) Project and Private Sector Energy Development (PSED) Project**

Samuel Schweitzer directs programs in energy technology innovation and private sector activities. Prior to joining the Office in 1984, Dr. Schweitzer worked at the U.S. Department of Energy where he managed bilateral programs in renewable energy. He holds bachelor's and master's degrees in Agricultural Engineering from the Technion Israel Institute of Technology, a master's degree in Mechanical Engineering from the Massachusetts Institute of Technology, and a doctorate in Thermal Sciences from Stanford University. Dr. Schweitzer has served on the faculty of Stanford University, the University of Pennsylvania, and Tel-Aviv University, where he established the School of Engineering. He has co-authored over 50 technical papers on Thermal Sciences and Technology. During 1987-1990, Dr. Schweitzer served as the Deputy Director of the Office of Energy Technology and Research and Development at the International Energy Agency in Paris, where he also headed the Energy Technology Studies Division.

### **Carolyn Kiser, Program Analyst, Administration and Program Division,**

Carolyn Kiser is responsible for procurement, budget, and database activities within the Office of Energy, Environment, and Technology. Specifically, she has provided the Office with a computerized resource center, prepared Office computer needs assessments, and designed databases and computerized reports to track the various budgets of the Office. Ms. Kiser has also served on several ad hoc committees charged with designing the Bureau's program database. She has been with the Agency since 1965, working in the Office of International Training, Bureau for Near East, and Office of Engineering prior to joining the Office of Energy in 1987. She has had college instruction in accounting and business management. Ms. Kiser has also spent 25 years as an amateur genealogist which she includes among her varied interests.

### **Magdalena "Maggie" Reynolds, Administrative Assistant,**

Maggie Reynolds performs a variety of administrative tasks to fulfill the Office's mission. She also acts as a liaison between the Executive Secretariat and the Center for Environment. She was assigned to work with the New Independent States Task Force previously where she performed a wide range of secretarial and administrative functions, including receiving visitors, scheduling appointments, and making travel arrangements. Her interests lie in international affairs, international trade, and public relations. Ms. Reynolds is fluent in Spanish.

## **American Association for the Advancement of Sciences (AAAS) Fellows Bio-Sketches**

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### **Laura Efros, Science and Engineering Diplomacy Fellow**

Laura Efros is an AAAS Fellow in the Office of Energy, Environment, and Technology, specializing in environmental technology. Prior to her Fellowship, Dr. Efros was a visiting scientist at the University of North Carolina at Chapel Hill. She has taught chemistry at Yale University and Columbia University. Dr. Efros graduated from Columbia University with a B.A. in chemistry and received her Ph.D. in chemistry from Yale University. She is conversant in French and Italian.

### **Ivan Rios, Science and Engineering Diplomacy Fellow**

Ivan Rios advises various projects on renewable energy issues. From 1985-1988, he served as a Project Manager in the Superfund Program of the Environmental Protection Agency. He is currently enrolled in a Ph.D. program at the University of Massachusetts. Mr. Rios holds a bachelor's degree in Chemistry and a master's degree in Chemical Engineering. He has special interests in polymer science, plastics engineering, and hazardous waste management. Mr. Rios is fluent in Spanish and proficient in Portuguese and French.

## **USDA/RSSA Staff Bio-Sketches**

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### **Michael A. Bowyer, Data Entry Specialist**

Michael Bowyer is responsible for collecting program plan spreadsheets and consolidating them into the EET office program spreadsheets. He also maintains a database of reference material for the Office's resource center. His interests lie in different computer software and databases. Prior to his current position, Mr. Bowyer served as a Disaster Preparedness Instructor in the U.S. Air Force. Mr. Bowyer is presently working toward a bachelor's degree in Computer Science.

### **Carla Koppell, Energy and Environment Policy Specialist, Energy Efficiency Project (EEP)**

Carla Koppell is responsible for the design, implementation, and management of Global Energy and Environment Programs in business opportunity identification, venture promotion and policy development in developing countries. She also contributes to governmental efforts to respond to the threat of global climate change. Before employment with the Federal Government, Ms. Koppell worked with the Food and Agriculture Organization of the United Nations (FAO), in Rome where she most recently served as marketing program coordinator for the Community Forestry Unit of the Forestry Policy and Planning Division. She has also worked with Pioneer Hi-Bred International, a seed production company, in the development of corporate environmental policy. Ms. Koppell received a bachelor's degree in Communications and International Affairs from Cornell University. She holds a master's degree in Public Policy from Harvard University's John F. Kennedy School of Government.

## **USDA/RSSA Staff Bio-Sketches (continued)**

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### **Stephanie Lang, Administrative Assistant, Energy Efficiency Project (EEP)**

Stephanie Lang provides administrative assistance to the Deputy Director of EEP. Ms. Lang has worked for the U.S. Forest Service for the past 16 years. Her professional training has been through attending several secretarial business schools and attending seminars and conferences for executive secretaries. Her interests lie in computers and computer software. She has several college courses to her credit and is currently pursuing a degree in Library Sciences at the University of the District of Columbia.

### **Mark P. Murray, Deputy Project Officer, Energy Training Project (ETP)**

Mark Murray provides management support to the ETP Project Officer in the areas of project design, implementation, management, and evaluation. His interests lie in international affairs, training, management, communication, and environmental issues. Prior to his current position, Mr. Murray served as Director of Research at the Council for Renewable Energy Education. He was also an Account Executive at Cornerstone Associates. Mr. Murray holds a master's degree in international communication and a bachelor's degree in instructional media.

### **Thomas Ochs, Technology Specialist, Energy Efficiency Project (EEP)**

Thomas Ochs is the technical manager of the Global Energy and Environment Network (GLEEN) project. He is assigned to the GLEEN project through a cooperative agreement with the U.S. Department of Interior, Bureau of Mines. Mr. Ochs has a broad background in information systems, software development, and energy conservation. Mr. Ochs has a bachelor's degree in Physics from the University of Illinois, and is a Registered Professional Mechanical Engineer in the state of Oregon. He has authored more than 60 technical articles and has worked for more than 15 years in research dealing with alternate energy sources, heat and mass systems, and plasma physics. Mr. Ochs' interests lie in the area of computer modeling and control of non-linear systems.

### **Carol Pierstorff, Project Officer, Energy Training Project (ETP)**

Carol Pierstorff serves as the Project Officer for the EET office's Energy Training Project, the Energy Study Tour Program, and the U.S. Telecommunications Training Institute. Before joining USAID in 1992, she was the Principal of Terra Training and Consulting Associates, Inc., where she developed, produced, and marketed technical training products and services for the environmental industry. Prior to 1989, she served as Vice President of Marketing for International Human Resources Development Corporation, a company which provides technical and management training to the petroleum industry throughout the world. She is experienced in the areas of training needs assessment, instructional design, project planning and management, and international business development. She holds a bachelor's degree from Brown University, and a master's degree in Business and Administration from the Whittemore School of Business and Economics at the University of New Hampshire. She has also completed continuing studies in freshwater resource management, and groundwater pollution and hydrology.

## **USDA/RSSA Staff Bio-Sketches (continued)**

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### **Kim Sais, Energy and Environmental Communications Specialist**

Kim Sais is responsible for the preparation and management of all presentation and public relations materials for the EET office. She is also involved in coordinating the logistics for communication projects. In addition, Ms. Sais provides technical writing and desktop publishing assistance to various Project Officers and Contractors and serves as the External Affairs Liaison for the Office. Prior to her present position, Ms. Sais worked as a writer for the U.S. Department of Transportation, congressional liaison for the U.S. Department of Energy, and in the advertising department of TV Guide Magazine. Ms. Sais holds a bachelor's degree in Journalism and Mass Communications and a master's degree in Business Administration from the New Mexico State University. Her interests include marketing and public relations.

### **Joan Stebbins, Program Assistant for Office Automation**

As Program Assistant for the EET office, Joan Stebbins is responsible for providing administrative support to the Energy Training Project. Prior to assuming her current position, Ms. Stebbins worked for over 16 years as an executive assistant and 10 years as a medical secretary/assistant. Her professional training has been gained through several executive and medical secretarial training seminars and conferences. Ms. Stebbin's interests are in the areas of program and executive management.

### **Perviz Walji, Technical Writer**

Perviz Walji works with EET project officers to gather information for inclusion in a variety of technical and programmatic documents. She researches and responds to inquiries from the public seeking information on various issues. Prior to her current position, Ms. Walji worked as a Public Information Specialist and later as a Writer/Editor for the Department of the Interior, where she was the sole person responsible for the Report to Congress on the *Implementation of the Alaska Native Claims Settlement Act*. She also prepared slide tape presentations on Alaska and wrote articles for *Our Public Lands* and *Alaska People*. In addition, she also has experience working on the Hill. Before moving to the United States, Ms. Walji served as an Information Officer in the Ministry of Information and Broadcasting in Tanzania. She received a bachelor's degree in Literature and a master's degree in Journalism from the University of Maryland. She speaks Hindi, French, and Swahili. Her interests lie in environmental issues and policy.

### **Stephen L. Witkowski, Deputy Director, Energy Efficiency Project (EEP)**

Stephen L. Witkowski, P.E. is the Deputy Director of the Energy Efficiency Project and the Office of Energy, Environment, and Technology's coordinator for Mexico. He serves as project officer on projects assigned to Lawrence Berkeley Laboratory and the International Institute for Energy Conservation, as well as the Office of Energy's agreement with the Inter-American Development Bank. Mr. Witkowski has over twenty years of engineering and academic experience in energy efficiency, particularly in the industrial sector. Mr. Witkowski has worked as a consulting engineer, been employed by the Oregon Department of Energy, the USDA Forest Service and a major Pacific Northwest utility as an energy analyst and engineer. Mr. Witkowski has been a member of physics faculty at the University of New Hampshire. He has research and technical publications in energy efficiency, computer systems analysis, non-linear analysis and chaos theory, and biophysics.

## **USDA/RSSA Staff Bio-Sketches (continued)**

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### **Sheila Young, Energy and Environment Resource Specialist, Energy Efficiency Project (EEP)**

In the two years Sheila Young has been with the Office of Energy, Environment, and Technology, she has been involved in a wide range of technical activities. She is presently involved in the preparation of the report to Congress on global climate change and global climate change action plans; and will be working with EEP on issues surrounding the Global Environmental Facility. She also provides assistance to the efforts of the White House Subcommittee on Environmental Technology. In Ms. Young's previous capacity as a Technical Writer for the Office, she drafted policy papers, project implementation orders, and narratives for the Office's portfolio and managed the Office's Magellan computer system. She has prepared talking points, briefings, and presentations on global climate change, energy efficiency, geographic information systems, and gender issues and helped the Office shape its gender strategy. Prior to coming to USAID, Ms. Young was a marketing specialist for the U.S. Department of Agriculture, served in the Peace Corps in agroforestry, was a public school teacher, and performed computer coding and research for law firms. Ms. Young holds a bachelor's degree in Philosophy and is currently working on her master's degree in Environmental Science and Policy at George Mason University. Her interests are in energy and environmental policy, geographic information systems, global climate change, and environmental impact assessments. Ms. Young speaks Mauritanian, Arabic, and French.

## **Datex, Inc., EET Support Contract Staff Bio-Sketches**

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### **Rowena "Roni" Laxa, Project Manager**

Roni Laxa has supported the EET office under various contracts since March 1989. In her present position, she is responsible for the overall management and supervision of the Office's 10-person support contract. Prior to assuming this position, Ms. Laxa served as the administrative manager of the office's Global Warming Project and the Energy and Environmental Policy, Innovation, and Commercialization (EPIC) Program. Before coming to USAID, she managed the compliance division of the D.C. minority business development program, served as program assistant at a state and local policy center, performed legislative research for the Detroit City Council, and worked as a legal assistant at two major Detroit law firms. Ms. Laxa has a bachelor's degree in Political Science from the University of Michigan. Her interests include urban and international business development, international trade policy and regulation, and computers as management and communication tools.

### **Nathaniel Brackett, Technical Writer/Deputy Project Manager**

Nathaniel Brackett has been with the EET office under various contracts since 1988. In his current capacity, he assists the Office's Energy Technology Innovation Project (ETIP) with technical writing, and policy and planning activities. His interests lie in policy planning and computer engineering. Prior to coming to USAID, Mr. Brackett worked as an intern at The World Bank. He has a bachelor's degree in Energy Studies and a master's degree in Public and International Affairs. He is pursuing further study in Energy Engineering. Mr. Brackett has a working knowledge of Spanish.

## **Datex, Inc., EET Support Contract Staff Bio-Sketches (continued)**

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### **Tina Denise Fierros, Administrative Assistant/Database Manager**

Tina Fierros is responsible for the maintenance and design of several of the EET office's databases and tracking the financial information of EET projects. Her experience includes international sales of microwave test equipment, project operations, and export licensing and documentation. Prior to coming to the EET Support Project in October 1993, Ms. Fierros provided administrative, computer, and project support to USAID's Office of Population under a similar support contract. She has a bachelor's degree in Human Development from Kent State University. Ms. Fierros' varied interests include international business, computers, project management, and human development.

### **Cynthia Gill, Technical Writer**

Cynthia Gill joined the EET Support Project in November 1993. She is responsible for providing technical and writing support to the various projects of the EET office. She is presently participating on the working group guiding the formation of the Agency's new Center for Environment. She has also researched and drafted parts of the Administration's report on *Technology for a Sustainable Future*. Her interests lie in biodiversity, conservation biology, and other environmental topics. Before joining USAID, Ms. Gill did field work in Venezuela with the Center for Tropical Conservation and in Costa Rica for the Organization for Tropical Studies. She has also held statistical consultant and research assistant positions. Ms. Gill received a bachelor's degree from the University of Wisconsin and a master's degree in Environmental Management from Duke University. She speaks Spanish and French.

### **Todd Harding, Technical Writer**

Todd Harding provides technical and writing support to the EET Office under its support contract. Since joining the Office, Mr. Harding's primary responsibilities have been in support of the Office's renewable energy projects--particularly in Asia and Africa. Before joining Datex, Mr. Harding prepared a background paper for a World Bank housing team in preparation for a visit to South Africa. He also spent three years in Kenya as a microenterprise consultant and trainer. He received a bachelor's degree in finance from Washington State University and a master's degree in International Development from the University of Pennsylvania. His interests include contemporary African politics and macroeconomics in developing countries. Mr. Harding speaks fluent Swahili and passable Spanish.

### **Belindia Hicks, Administrative Assistant**

Belindia Hicks has nine years of experience in providing administrative support as a contract employee to USAID and eight years of experience with the EET Office. Currently, as an Administrative Assistant under the EET Support Project with DATEX, Inc., she provides high-level support to the Director and other personnel in USAID. Ms. Hicks attended the Washington School for Secretaries and also received training from the Procurement Assistant Center on Basic and Advanced Contracting. She has a strong interest in areas of accounting, personnel, and management and hopes to pursue further education and training in the business fields.

## **Datex, Inc., EET Support Contract Staff Bio-Sketches (continued)**

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### **Geraldine "Jheri" Jones, Administrative Assistant**

Jheri Jones has provided secretarial and administrative support to the Office of Energy under various contracts since 1989. Currently, her primary responsibilities are to the Office's Energy Efficiency Project (EEP). In this capacity, she is responsible for a variety of administrative tasks including travel management, and seminar and meeting coordination and support. Prior to coming to USAID, Ms. Jones spent eight years at Morgan Guaranty Trust in New York City. She received her computer training from the School of Business Machines at Essex College in New Jersey. Her interests lie in computers and computer software.

## Blue Cover Reports

Report Number	Title	Date Published	Contractor (Project)	Document Number
93-02	Advancing Cogeneration in the Indian Sugar Industry: Three Mills in Tamil Nadu and Maharashtra	May 1993	Winrock International (BEST) International Development and Energy Assoc., Inc. (EPPD)	PN-ABP-597
93-01	Energy from Sawmill Waste in Honduras: Teupasenti Case Study	February 1993	Winrock International (BEST)	PN-ABN-557
92-08	Phase I Feasibility Study of a 20 MW Wind Electric Power Plant in Costa Rica, and Annexes.	December 1992	International Development and Energy Assoc., Inc. (REAT and EPPD)	PN-ABN-559
92-07	Indonesia Demand-Side Management, Volume II: Electricity Pricing Incentives	October 1992	RCG/Hagler, Bailly, Inc. (EPDAC - ECSP)	PN-ABM-936
92-06	Indonesia Demand-Side Management, Volume I: Action Plan	October 1992	RCG/Hagler, Bailly, Inc. (EPDAC - ECSP)	PN-ABM-935
92-05	Pricing Framework and Methodology for Electricity Purchases and Sales Related to Non-Utility Power Transactions, Final Report	October 1992	RCG/Hagler, Bailly, Inc. (EPDAC - ECSP)	PN-ABM-934
92-04	Technical and Commercial Assessment of Amorphous Silicon and Energy Conversion Devices, Inc. Photovoltaic Technology	December 1992	International Development and Energy Assoc., Inc. (EPPD)	PN-ABN-558
92-03	Capabilities and Competitiveness of U.S. Environmental Technologies	March 1992	Bechtel Corporation (ETIP)	To be assigned
92-02	Diversification of the Sugar and Palm Oil Industries: Indonesia - Part II: Case Studies of Sugar Industry, Electricity Production for Export	March 1992	Winrock International Institute for Agricultural Development (BEST)	PN-ABN-556
92-01	Assessment of the Condition of the Electric and District Heating Sector in Mongolia	February 1992	K&M Engineering & Consulting Corp. (PSED)	PN-ABK-335

Report Number	Title	Date Published	Contractor (Project)	Document Number
91-17	Opportunities for Improving End-use Electricity Efficiency in India	November 1991	International Development and Energy Assoc., Inc. (EPPD)	PN-ABK-881
91-16	Energy from Citrus Wastes in Belize: Industry Overview	November 1991	Winrock International (BEST)	PN-ABK-504
91-15	Baling Sugarcane Tops and Leaves: The Thai Experience	August 1991	Winrock International (BEST)	PN-ABI-900
91-14	Wind-Electric Water Pumping in Naima, Morocco: A Case Study	November 1991	Bergey Windpower Company, Inc. (REAT)	PN-ABK-226
91-13	Analysis of Demand, Investment, and Efficiency Effects of Distortions in Retail Electricity Tariffs - Final Report	May 1991	RCG/Hagler, Bailly, Inc. (ECSP)	PN-ABI-517
91-12	Costa Rica: Power Sector Efficiency Assessment, Technical Volume	June 1991	RCG/Hagler, Bailly, Inc. (ECSP)	PN-ABJ-742
91-11	Combined-Cycle Power Plant Experience in Pakistan and Egypt, Final Report	June 1991	RCG/Hagler, Bailly, Inc. (ECSP)	PN-ABJ-930
91-10	Philippines Energy Trade Missions Review - Final Report	May 1991	Bechtel National, Inc. (ETIP)	PN-ABI-747
91-09	Export Power for Five Sugar Mills in Costa Rica	May 1991	Winrock International (BEST)	PN-ABI-014
91-08	Estudio para el Establecimiento de una Metodologia para el Calculo de Costos Marginales de Generacion Electrica y Lineamientos para Contractos con Congeneradores en Guatemala	April 1991	Winrock International (BEST)	PN-ABI-015
91-07	Diversification of Sugar and Palm Oil Industries: Indonesia - Part I: Survey of Energy and Product Investment Options	March 1991	Winrock International (BEST)	PN-ABH-775
91-06	Action Plan	May 1991	S&T/EY	PD-ABC-790
91-05	Energy from Sawmill Wastes in Honduras: Industry Overview (Available in Spanish)	July 1991	Winrock International (BEST)	PN-ABH-607
91-04	Overview for Private Sector Participation in the Energy/Power Sector of Jamaica	Sept 1990	T. Head & Co., Inc. (PSED)	PN-ABH-359

Report Number	Title	Date Published	Contractor (Project)	Document Number
91-03	Private Sector Participation in the Energy/Power Sector of Jamaica - Proceedings	Sept 1990	Sponsored by Ministry of Mining & Energy, Jamaica; The World Bank; and S&T/EY (PSED)	PN-ABH-041
91-02	Ministry of Energy and Mineral Resources - The Hashemite Kingdom of Jordan, Industrial Energy Efficiency Program - Final Report	January 1991	RCG/Hagler, Bailly, Inc. (ECSP)	PN-ABH-064
91-01	Private Power Projects in Developing Countries - Summary Report on a Conference in Amman, Jordan	December 1989	Bechtel National, Inc. (CETA)	PN-ABH-065
90-12	Poland: An Energy and Environmental Overview	October 1990	Argonne National Laboratory (936-5724)	PN-ABH-045
90-11	Screening of Combined Cycle Alternatives including Repower Options in the Philippines	October 1990	Bechtel National, Inc. (CETA)	PN-ABG-77
90-10	The Hashemite Kingdom of Jordan Industrial Energy Efficiency Program	October 1990	RCG/Hagler, Bailly, Inc. (ECSP)	Not Available
90-09	Private Power Database - Profile: The Philippines	July 1990	RCG/Hagler, Bailly, Inc. (ECSP)	PN-ABG-513
90-08	Private Power Database - Country Profile: Pakistan	June 1990	RCG/Hagler, Bailly, Inc. (ECSP)	PN-ABG-514
90-07	Private Power Database, Country Profile: India	July 1990	RCG/Hagler, Bailly, Inc. (ECSP)	PN-ABG-516
90-06	Private Power Database - Country Profile: Dominican Republic	June 1990	RCG/Hagler, Bailly, Inc. (ECSP)	PN-ABG-515
90-05	Analysis of Swaziland Sugar Industry Cogeneration Power Options	April 1990	K&M Engineering and Consulting Corp.; RCG/Hagler, Bailly, Inc.; and Winrock International (BEST)	PN-ABG-476
90-04	Policy Initiatives for Electricity Utility Load Management in A.I.D.-assisted Countries	August 1990	RCG/Hagler, Bailly, Inc. (ECSP)	PN-ABG-512
90-03	Program Plan Fiscal Years 1990 and 1991	July 1990	S&T/EY	PD-ABC-051
90-02	Interconnection of Sugar Mills to the Thailand Electric Power Grid: Issues and Prospects	January 1990	Winrock International (BEST)	PN-ABK-692

Report Number	Title	Date Published	Contractor (Project)	Document Number
90-01	Vaccine Refrigeration Technologies and Power Sources	March 1990	Oak Ridge National Laboratory (EPPD)	PN-ABG-917
89-14	Handbook for Comparative Evaluation of Technical and Economic Performance of Water Pumping Systems	November 1988	Oak Ridge National Laboratory (EPPD)	PN-ABF-135
89-13	Electroplan: A New Spreadsheet Model for Comprehensive Power Systems Planning in Developing Countries	July 1989	International Development and Energy Assoc., Inc. (EPPD)	PN-ABD-616
89-12	Steam-injected Gas-Turbine Cogeneration for the Cane Sugar Industry, Optimization through Improvements in Sugar Processing Efficiencies	Sept 1987	Princeton University	PN-ABC-988
89-11	Technical, Economic, Financial, and Commercial Considerations of the San Miguel Corporation Private Power Program	August 1989	Bechtel National, Inc.	PN-ABE-113
89-10	Jamaica Cane/Energy Project - Feasibility Study: Volume I	Sept 1986	RONCO Consulting Corp.	PD-AAV-308
89-09	Costa Rica Load Control Demonstration Project	July 1989	RCG/Hagler, Bailly, Inc.	PN-ABD-618
89-08	Program Plan Fiscal Years 1989-90	June 1989	S&T/EY	PD-ABA-910
89-07	Energy Inefficiency in the Asia/Near East Region and its Environmental Implications	June 1989	RCG/Hagler, Bailly, Inc.	PN-ABF-134
89-06	Fuel Alcohol Production in Honduras: A Technical and Economic Analysis	April 1986	RCG/Hagler, Bailly, Inc.	PN-AAW-502
89-05	The Sugar Industry in the Philippines: An Analysis of Crop Substitution and Market Diversification Opportunities	December 1986	RONCO Consulting Corp.	PN-ABA-959
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## **Acronyms and Abbreviations**

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**AA**

Assistant Administrator

**AAAS**

American Association for the Advancement of Sciences

**AFR**

USAID Bureau for Africa

**ASEAN**

Association of South East Asian Nations

**BEST**

Biomass Energy Systems and Technology

**DG**

Democracy and Governance

**DOE**

U.S. Department of Energy

**DSM**

Demand-side Management

**EBRD**

European Bank for Reconstruction and Development

**EEAF**

Environmental Enterprises Assistance Fund

**EEP**

Energy Efficiency Project

**EET**

Office of Energy, Environment, and Technology

**EG**

Center for Economic Growth

**ENR**  
Office of Environment and Natural Resources

**ENV**  
Center for Environment

**EPA**  
U.S. Environmental Protection Agency

**EPDF**  
Energy Project Development Fund

**ETIP**  
Energy Technology Innovation Project

**ETP**  
Energy Training Program

**G**  
Bureau for Global Programs, Field Support, and Research

**GLEEN**  
Global Energy and Environment Network

**HCD**  
Center for Human Capacity Development

**IDB**  
Inter-American Development Bank

**IFREE**  
International Fund for Renewable Energy and Energy Efficiency

**IIE**  
Institute of International Education

**IIEC**  
International Institute for Energy Conservation

**IQC**  
Indefinite Quantity Contract

**LAC**

USAID Bureau for Latin America and the Caribbean

**MGT**

Office of Management

**MW**

megawatt(s)

**NRECA**

National Rural Electric Cooperative Association

**PDP**

Office of Program Development and Planning

**PASA**

Participating Agency Service Agreement

**PHN**

Center for Population, Health, and Nutrition

**PSED**

Private Sector Energy Development

**REAT**

Renewable Energy Applications and Training

**REPSO**

Renewable Energy Project Support Office

**RSSA**

Resource Support Service Agreement

**TDA**

U.S. Trade and Development Agency

**UNDP**

United Nations Development Program

**UP**

Office of Environment and Urban Programs

**USAID**

U.S. Agency for International Development

**USDA**

United States Department of Agriculture

**USEA**

United States Energy Association

**US/ECRE**

United States Export Council for Renewable Energy

**USTTI**

United States Telecommunications Training Institute

**WID**

Office of Women in Development