

**Global Bureau Environmental Partnerships and Programs**  
current resources and activities promoting clean production and pollution prevention

**July, 1997**

## ***G/ENV partners in promoting clean production and pollution prevention***

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In addressing environmental problems, the Center for Environment collaborates with numerous other development assistance organizations from both the public and private sector in seeking to maximize the impact of its limited development resources. The Center provides technical support to international forums on development and environment. It works at regional and national levels with local governments and non-governmental organizations and at the local level with grassroots organizations and small entrepreneurs.

USAID also supports and participates in a wide variety of United States governmental and international programs in the environmental, urban, and energy areas.

### **U.S. Government**

- Department of Commerce
- Department of Energy
- Department of Housing and Urban Development
- Department of the Interior
- Department of State
- Peace Corps
- Smithsonian Institute
- White House Office of Science and Technology Policy
- White House Office on Environmental Policy
- White House for GLOBE
- United States Department of Agriculture

### **United Nations**

- Global Environment Facility
- UN Center for Human Settlements
- UN Council on Sustainable Development
- UN Development Program
- UN Environment Program
- World Bank

### **Intergovernmental Organizations**

- African Development Bank
- Asian Development Bank
- Commission on Development and Environment
- Inter-American Development Bank
- Organization for Economic Cooperation and Development (OECD)

### **Organizations**

- The Academy for Educational Development (AED)
- Alliance to Save Energy
- American Association for the Advancement of Science
- Argonne National Laboratory
- The Asia Foundation
- Biomass Energy Research Asc
- Center for International Environmental Law (CIEL)
- Center for International Law
- Center for Renewable Energy and Sustainable Technology
- Electric Power Research Inst
- Environmental Defense Fund
- Environmental Enterprises Assistance Fund
- Environmental Export Council
- Environmental Law Institute
- FannieMae
- Habitat for Humanity International
- Institute for Public-Private Partnerships
- International City/Country Management Association
- International Fund for Renewable Energy and Energy Efficiency (IFREE)
- International Institute for Education (IIE)
- International Institute for Energy Conservation (IIEC)
- International Law Institute

- Lawrence Berkeley Laboratory
- Mega Cities Project
- National Academy of Sciences
- National Association of Home Builders
- National Association of Realtors
- National Association of State Development Agencies (NASDA)
- National League of Cities
- National Science Foundation
- The Nature Conservancy
- Oak Ridge National Laboratory
- The Panos Institute
- Partners of the Americas
- Research Triangle Institute
- Resources for the Future
- Sister Cities International
- Water Environment Federation
- World Energy Efficiency Association (WEEA)
- World Environment Center
- World Resources Institute
- Worldwatch Institute
- United States Energy Association (USEA)
- U.S. Export Council for Renewable Energy (US/ECRE)
- U.S. Telecommunications Training Institute
- The Urban Institute

### **Universities**

- New Mexico State University
- University of Missouri-Columbia, Center for Waste Management
- University of Rhode Island
- Harvard University, HIID

**Global Bureau Teams  
promoting clean production and pollution prevention**

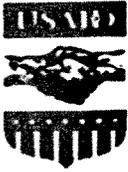
Environmental Policy Team, G/ENV, Ken Baum  
Environmental Technology Team, G/ENV, Alberto Sabadell  
Global Climate Change Team, G/ENV, Carla Koppel  
Urban Environmental Services Team, G/ENV, Priscilla Phelps  
Urban Management Team, G/ENV, Sarah Wines  
Urban and Industrial Pollution Team, G/ENV, Bob MacLeod  
Water Team, G/ENV, Mike Philley  
Clean Energy Production Team, G/ENV, Sam Schweitzer  
Energy Efficiency Team, G/ENV, Carl Duisberg  
Renewable Energy Team, Ross Pumfrey  
Environmental Health Team, G/PHN, John Borrazzo  
Business Development Team, G/EG, Hank Merrill  
Emerging Markets Team, G/EG, Russ Anderson  
Agricultural Enterprise and Food Security Team, John Lewis

**Regional Environment and Urban Development Offices  
(RUDO's)**

Djakarta, Bill Gelman  
Delhi, Earl Kessler  
Warsaw, Rebecca Black  
Pretoria, Carlene Dei  
Rabat, Tina Dooley Jones  
Guatemala, Doc Odle  
Quito, Kraig Baier

**Renewable Energy Support Offices  
(REPSO's)**

Guatemala  
Philippines  
Indonesia  
India  
Brazil



## Contractors/Cooperative Agreements/Grantees

### The Center for Environment

April 1997

The Center for Environment, located in USAID's Bureau for Global Programs, Field Support and Research, coordinates the Agency's environmental programs. The Center focuses on three strategic areas that included the USAID's two global environmental priorities: reduction of climate change and biodiversity conservation. The Center's objectives are:

1. Increased and improved protection and sustainable use of natural resources, principally forests, biodiversity, and freshwater and coastal ecosystems
2. Sustainable urbanization including reduced pollution and more environmentally sound urbanization
3. Increased environmentally sound energy production and use

The Center for Environment, in conjunction with contracting assistance from private and not-for-profit organizations, provides technical and programmatic leadership and support to the Agency, its field missions, and its domestic and international partners on global and sustainable development environmental problems.

The following provides an overview of the Center's contractors, cooperators and grantees with contact names. USAID is increasingly awarding Indefinite Quality Contract (IQC) The primary benefit of IQCs is that they provide a flexible mechanism to provide field support.

### Sustainable Natural Resources

#### *Conservation and Management of Biodiversity*

**World Wildlife Fund (WWF)**  
*The Biodiversity Support Program (BSP)*  
1250 24th Street, N.W., Suite 600  
Washington, D.C. 20037  
Contact: Kathy Saterson  
E-mail: katheryn.saterson@wwfus.org  
Website: www.wwfus.org  
Tel: 202-293-4800; Fax: 202-293-9211  
USAID Contact: Jerry Bisson, 703-875-4539  
E-mail: jbisson@usaid.gov  
Type: Cooperative Agreement

**Conservation International**  
*Biodiversity Rapid Assessment Program*  
2501 M Street, N.W., Suite 200  
Washington, D.C. 20037  
Contact: Jorgen Thomsen  
E-mail: j.thomsen.conservation.org  
Website: www.conservation.org  
Tel: 202-429-5660; Fax: 202-887-5188  
USAID Contact: Jerry Bisson, 703-875-4539  
E-mail: jbisson@usaid.gov  
Type: Cooperative Agreement

**National Fish and Wildlife Foundation (NFWF)**  
*Neotropical Migratory Bird Conservation Program*  
1120 Connecticut Avenue, N.W., Suite 900  
Washington, D.C. 20036  
Contact: Peter Stangel  
E-mail: stangel@nfwf.org  
Website: www.nfwf.org  
Tel: 202-857-0166; Fax: 202-857-0162  
USAID Contact: Jerry Bisson, 703-875-4539  
E-mail: jbisson@usaid.gov  
Type: Cooperative Agreement

**United States Department of the Interior**  
**Office of International Affairs**  
*Partnership for Biodiversity*  
Contact: Barbara Pitkin  
E-mail: bpitkin@ois.doi.gov  
Website: www.ois.doi.gov  
Tel: 202-208-3101; Fax: 202-501-6381  
USAID Contact: Jerry Bisson, 703-875-4539  
E-mail: jbisson@usaid.gov  
Type: PASA

**Consultative Group on Biological Diversity**  
Lincoln & Torney, Building 1013  
P.O. Box 29361  
San Francisco, CA 94129-0361  
Contact: Catherine Porter  
E-mail: cgbd@cgbd.org  
Website: N/A  
Tel: 415-561-6575; Fax: 415-561-6490  
USAID Contact: Jerry Bisson, 703-875-4539  
E-mail: jbisson@usaid.gov  
Type: Grant

#### *Management of Forest and Tree Systems*

**USDA Forest Service**  
**International Forestry Operations**  
*Forestry Support Program*  
1099 14th Street, N.W., Suite 5500  
Washington, D.C. 20005  
Contact: Alex Moad  
E-mail: a.moad@if.arctic.com  
Website: www.usda.gov  
Tel: 202-273-0163; Fax: 202-273-4749  
USAID Contact: Mike Bengé, 703-875-4063  
E-mail: mbenge@usaid.gov  
Type: RSSA

**Peace Corps—Office of Training and Program Support (OTAPS)**  
1990 K Street, N.W., Suite 8624  
Washington, D.C. 20526  
Contact: George Mahaffey  
E-mail: gmahaffey@peacecorp.gov  
Website: www.peacecorp.gov  
Tel: 202-606-3101; Fax: 202-606-3024  
USAID Contact: Mike Bengé, 703-875-4063  
E-mail: mbenge@usaid.gov  
Type: PASA

#### *Environmental Education*

**Academy for Educational Development**  
*GreenCOM*  
1255 23rd Street, N.W.  
Washington, D.C. 20037  
Contact: Brian Day  
E-mail: greencom@aed.org  
Website:  
www.info.usaid.gov/environment/greencom  
Website research library:  
cefink.umich.edu/RESLIB/greencom  
Tel: 202-884-8897; Fax: 202-884-8701  
USAID Contact: Kate Barba, 703-875-5656  
E-mail: kbarba@usaid.gov  
Type: Contract

#### *Freshwater and Coastal Resources*

**University of Rhode Island (URI)**  
**Coastal Resources Center**  
URI Bay Campus  
Nattagansett, RI 02882  
Contact: Lynn Hale  
E-mail: lzhale@gso.uri.edu  
Website: www.gso.uri.edu  
Tel: 401-874-6224; Fax: 401-789-4670  
USAID Contact: Mike Philley, 703-875-4058  
E-mail: mphilley@usaid.gov  
Type: Cooperative Agreement

National Oceanic & Atmospheric  
Administrator (NOAA) NOS/OCR  
SSMC IV-WS11109  
1305 East-West Highway  
Silver Spring, MD 20910  
Contact: Clement D. Lewsey  
E-mail:  
Website: demol.eis.noaa.gov  
Tel: 301-713-3102; Fax: 301-713-4367  
USAID Contact: Dan Deely, 703-875-4019,  
Mike Phillely, 703-875-5058  
E-mail: ddeely@usaid.gov, mphilley@usaid.gov  
Type: RSSA

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## Sustainable Urbanization

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**International City/County Management  
Association (ICMA)**  
777 North Capital Street, N.E., Suite 500  
Washington, D.C. 20002  
Contact: Peter Feiden  
E-mail:  
Website: www.ptinw.dc.us/icma  
Tel: 202-289-4262; Fax: 202-962-3681  
USAID Contact: Pamela Mandel, 703-875-4372  
E-mail: pmandel@usaid.gov  
Type: Contract  
Subcontractor:  
Community Consulting International (CCI)

The following IQCs provide technical assistance in  
the area of promoting urban development and  
reducing long-term threats to the global  
environment:

- Environment Planning and Analysis Support
- Finance
- Training Development Services
- Conference Management and Seminar  
Coordination
- Credit Quantity Program Loan Portfolio  
Management
- Urban Infrastructure

**Abt Associates, Inc.**  
Hampden Square  
4800 Montgomery Lane, Suite 600  
Bethesda, MD 20814  
Contact: John Miller  
E-mail: john\_miller@abtaassoc.com  
Website: N/A  
Tel: 301-913-0500; Fax: 301-652-3839  
USAID Contact: Sheree McManus, 703-875-4307  
E-mail: smcmanus@usaid.gov  
Type: IQC  
Subcontractors:  
Cardiff Consulting Service, Inc.  
Environmental Resource Management (ERM)  
Federal National Mortgage Association  
Quadel Consulting Corporation  
Resource Applications, Inc.

**AG International Consulting Corporation**  
3 Bethesda Metro Center, Suite 700  
Bethesda, MD 20814  
Contact: Philip W. Rourke,  
E-mail: AG\_International@compuserve.com  
Website: N/A  
Tel: 301-493-5330; Fax: 301-493-9630  
USAID Contact: Sheree McManus, 703-875-4307  
E-mail: smcmanus@usaid.gov  
Type: IQC  
Subcontractors:  
DynCorp I&ET  
Nathan Associates  
National Economic Research Associates, Inc.

**Chemonics International, Inc.**  
1133 20th Street, N.W., Suite 600  
Washington, D.C. 20036  
Contact: C.Y. Nunez-Ollero  
E-mail: cyollero@chemonics.com  
Website: www.chemonics.com  
Tel: 202-955-3417; Fax: 202-955-7520  
USAID Contact: Sheree McManus 703-875-4307  
E-mail: smcmanus@usaid.gov  
Type: IQC  
Subcontractors:  
Cooperative Housing Foundation (CHF)  
Ellsworth Associates, Inc. (EAI)  
Environomics, Inc.  
Federal National Mortgage Association  
Innovative International Development, Inc.  
Institute for Public-Private Partnership University  
of Missouri-Columbia

**Datex, Inc.**  
7799 Leesburg Pike  
Suite 1150, North Tower  
Falls Church, Virginia 22043-2143  
Contact: Trudy Jackson  
E-mail: tjackson@datexinc.com  
Website: www.datexinc.com  
Tel: 703-903-9300; Fax: 703-903-9301  
USAID Contact: Sheree McManus, 703-875-4307  
E-mail: smcmanus@usaid.gov  
Type: IQC  
Subcontractors:  
Intrados International Management Group The  
Pragma Corporation

**PADCO, Inc.**  
1025 Thomas Jefferson Street, N.W.  
Suite 170  
Washington, D.C. 20007  
Contact: James Lynch  
E-mail: padco@padcoinc.com  
Website: N/A  
Tel: 202-944-2551; Fax: 202-944-2350  
USAID Contact: Sheree McManus, 703-875-4307  
E-mail: smcmanus@usaid.gov  
Type: IQC  
Subcontractor:  
Artemel & Associates, Inc.  
CH2M Hill International Services  
Federal National Mortgage Association  
Government Finance Group, Inc.  
Hagler Bailly Consulting, Inc.  
The Panos Institute  
Training Resources Group, Inc.

**Research Triangle Institute (RTI)**  
P. O. Box 12194  
Research Triangle Park, NC 27709  
Contact: Hazel Ryon  
E-mail:  
Website: www.rti.org  
Tel: 919-541-8841; Fax: 919-541-6621  
USAID Contact: Sheree McManus 703-875-4307  
E-mail: smcmanus@usaid.gov  
Type: IQC  
Subcontractor:  
Tropical Research and Development, Inc.

In addition to the above, the following  
cooperators/contractors support specific activities in  
the Center's Sustainable Urbanization portfolio:

## Pollution Prevention

**Hagler Bailly Consulting, Inc.**  
*Environmental Pollution Prevention (EP3)*  
1530 Wilson Boulevard, Suite 900 Arlington,  
Virginia 22209  
Contact: Betsy Marrocotte  
E-mail:  
Website: www.habaco.com  
Tel: 703-351-4004; Fax: 703-351-6166  
USAID Contact: Robert MacLeod, 703-875-6414  
E-mail: rmacleod@usaid.gov  
Type: Contract

**Water Environment Federation**  
*Environment Pollution Prevention*  
601 Wythe Street  
Alexandria, VA 22314  
Contact: Marlou Thompson-Church  
E-mail: webfeedback@wef.org  
Website: www.wef.org  
Tel: 703-684-2400; Fax: 703-684-2465  
USAID Contact: Robert MacLeod, 703-875-6414  
E-mail: rmacleod@usaid.gov  
Type: Cooperative Agreement

## Environmental Law

**Center for International Environmental Law**  
(CIEL)—*Environmental Law Program*  
1621 Connecticut Avenue, N.W., Suite 200  
Washington, D.C. 20009-1052  
Contact: Eric Dannenmaier  
E-mail: edan@igc.apc.org/ciel  
Website: www.igc.apc.org/ciel  
Tel: 202-332-4840; Fax: 202-332-4865  
USAID Contact: Robert MacLeod, 703-875-6414  
E-mail: rmacleod@usaid.gov  
Type: Sub-contract to EP3

## Environmental Health

Camp Dresser & McKee  
*Environmental Health Project\**  
1611 N. Kent Street, Suite 300  
Arlington, VA 22209  
Contact: Ellis Turner  
E-mail: [turnerje@cdm.com](mailto:turnerje@cdm.com)  
Website: [www.access.digex/~ehp](http://www.access.digex/~ehp)  
Tel: 703-247-8730; Fax: 703-243-9004  
USAID Contact: John Borrazzo, 703-875-4500  
E-mail: [jborrazzo@usaid.gov](mailto:jborrazzo@usaid.gov)  
Type: Contract  
\*Managed by USAID's Center for Population, Health and Nutrition

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## Sustainable Energy

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### Energy Efficiency

Hagler Bailly Consulting, Inc.  
1530 Wilson Boulevard, Suite 900  
Arlington, VA 22209  
Contact: John Armstrong  
E-mail: [jarmstro@habaco.com](mailto:jarmstro@habaco.com)  
Website: [www.habaco.com](http://www.habaco.com)  
Tel: 703-351-0300; Fax: 703-351-0342  
USAID Contact: Carl Duisberg, 703-875-4052  
E-mail: [cduisberg@usaid.gov](mailto:cduisberg@usaid.gov)  
Type: IQC and Contract

International Institute for Energy Conservation (IIEC)  
750 First Street, N.W., Suite 940  
Washington, D.C. 20002  
Contact: Carlos Cardona  
E-mail:  
Website: [www.iiec.org](http://www.iiec.org)  
Tel: 202-842-3388; Fax: 202-842-1565  
USAID Contact: Carl Duisberg, 703-875-4052  
E-mail: [cduisberg@usaid.gov](mailto:cduisberg@usaid.gov)  
Type: Cooperative Agreement

Alliance to Save Energy  
1200 18th Street, N.W., Suite 900  
Washington, D.C. 20036  
Contact: Mark Hopkins  
E-mail: [mhopkins@ase.org](mailto:mhopkins@ase.org)  
Website: [www.ase.org](http://www.ase.org)  
Tel: 202-857-0666; Fax: 202-331-9588  
USAID Contact: Carl Duisberg, 703-875-4052  
E-mail: [cduisberg@usaid.gov](mailto:cduisberg@usaid.gov)  
Type: Cooperative Agreement

Environmental Export Council (EEC)  
P.O. Box 77287  
Washington, D.C. 20013  
Contact: Kathleen Slattery  
E-mail: [76325.1136@compuserve.com](mailto:76325.1136@compuserve.com)  
Website: [www.ecotradenet.com](http://www.ecotradenet.com)  
Tel: 202-466-6933; Fax: 202-789-1623  
USAID Contact: Carl Duisberg, 703-875-4052  
Type: Cooperative Agreement

## Lawrence Berkeley National Laboratory (LBNL)

One Cyclotron Road  
Mail Stop 90/4000  
Berkeley, CA 94720  
Contact: Steve Wiel  
E-mail: [s\\_wiel@dante.lbl.gov](mailto:s_wiel@dante.lbl.gov)  
Website: N/A  
Tel: 510-486-7689; Fax: 486-6996  
USAID Contact: Carl Duisberg, 703-875-4052  
Type: Grant

Oak Ridge National Laboratory (ORNL)  
Building 4500 North  
Mail Stop 6184  
P.O. Box 2008  
Oak Ridge, TN 37831-6184  
Contact: Tom Wilbanks  
E-mail: [TWIZ@ORNL.gov](mailto:TWIZ@ORNL.gov)  
Website: [www.ornl.gov](http://www.ornl.gov)  
Tel: 423-574-5515; Fax: 423-576-2943  
USAID Contact: Carl Duisberg, 703-875-4052  
Type: PASA

### Renewable Energy

Winrock International  
*Biomass Energy Systems and Technology*  
1611 North Kent Street, Suite 600  
Arlington, Virginia 22209  
Contact: John Kadyzewski  
E-mail: [jpk@msmail.winrock.org](mailto:jpk@msmail.winrock.org)  
Website: [www.winrock.org](http://www.winrock.org)  
Tel: 703-525-9430; Fax: 703-243-1175  
USAID Contact: Ross Pumfrey, 703-875-4694  
E-mail: [rpumfrey@usaid.gov](mailto:rpumfrey@usaid.gov)  
Type: Cooperative Agreement

U.S. Export Council for Renewable Energy (USECRE)—*Renewable Energy Applications and Training*  
122 C Street, N.W., 4th Floor  
Washington, D.C. 20001  
Contact: Judy Siegel  
E-mail: [judys@usecre.org](mailto:judys@usecre.org)  
Website: [www.crest.org/renewables/usecre](http://www.crest.org/renewables/usecre)  
Tel: 202-383-5928; Fax: 202-383-2555  
USAID Contact: Ross Pumfrey, 703-875-4694  
E-mail: [rpumfrey@usaid.gov](mailto:rpumfrey@usaid.gov)  
Type: Cooperative Agreement

Environmental Enterprises Assistance Fund (EEAF)  
1901 North Moore Street, Suite 1004  
Arlington, Virginia 22209  
Contact: Brooks Browne  
E-mail: [eeaf@igc.apc.org](mailto:eeaf@igc.apc.org)  
Website: [www.igc.apc.org](http://www.igc.apc.org)  
Tel: 703-522-5928; Fax: 703-522-6450  
USAID Contact: Ross Pumfrey, 703-875-4694  
E-mail: [rpumfrey@usaid.gov](mailto:rpumfrey@usaid.gov)  
Type: Cooperative Agreement

## Clean Energy Production

A new mechanism (IQC), supporting Clean Energy Production activities, is in the process of being awarded.

USAID Contact: Sam Schweitzer, 703-875-4072  
E-mail: [schweitzer@usaid.gov](mailto:schweitzer@usaid.gov)

The following cooperators/contractors provide cross-cutting support to activities within the Center's Sustainable Energy portfolio:

International Institute for Education (IIE)  
*Energy Training Project*  
1400 K Street, N.W., Suite 650  
Washington, D.C. 20005  
Contact: Ahmad Ghamarian  
E-mail: [aghamarian@iie.org](mailto:aghamarian@iie.org)  
Website: [www.iie.org](http://www.iie.org)  
Tel: 202-326-7706; Fax: 202-326-7694  
USAID Contact: Carol Pierstorff, 703-875-4092  
E-mail: [cpierstorff@usaid.gov](mailto:cpierstorff@usaid.gov)  
Type: Contract

U.S. Energy Association (USEA)  
1620 Eye Street, N.W., Suite 1000  
Washington, D.C. 20006  
Contact: John Hammond  
E-mail: [73410.325@compuserve.com](mailto:73410.325@compuserve.com)  
Website:  
Tel: 202-331-0415; Fax: 202-331-0418  
USAID Contact: Alberto Sabadell, 703-875-4288  
E-mail: [asabadell@usaid.gov](mailto:asabadell@usaid.gov)  
Type: Cooperative Agreement

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## Center for Environment Program Support

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### Environment Policy

International Resources Group, Ltd. (IRG)  
1211 Connecticut Avenue, N.W. Suite 700  
Washington, D.C. 20036  
Contact: Doug Clark  
E-mail: [DCLARK@IRGLTD.COM](mailto:DCLARK@IRGLTD.COM)  
Website: N/A  
Tel: 202-289-0100; Fax: 202-289-7601  
USAID Contact: Ken Baum, 703-875-4735  
E-mail: [kbaum@usaid.gov](mailto:kbaum@usaid.gov)  
Type: IQC

Partners:  
Winrock International  
Harvard Institute for International Development  
Subcontractors:  
Development Alternatives, Inc. (DAI)  
Management Systems International (MSI)  
Planning and Development Collaborative International (PADCO)  
Conservation International (CI)  
Center for Naval Analysis (CNA)  
KBN Engineering and Applied Sciences, Inc.  
Keller-Bliemer  
Resource Management International (RMI)  
Telhus Institute  
Urban Institute  
World Resources Institute (WRI)



# U.S. AGENCY FOR INTERNATIONAL DEVELOPMENT Global Technology Network



*...creating strategic linkages and partnerships for sustainable development!*

## The Office of Business Development:

The primary objective of the office of business development is to leverage public sector development resources by establishing partnerships and networks with the private sector. This is accomplished, in part, by the integrated activities of three program activities: the Global Technology Network, the Center for Trade & Investment Services, and the Domestic Outreach Program. Together these programs foster the talent and resources necessary to further the Agency goal of sustainable economic development. The Business Development Office tracks those regions and industries in which USAID is active and specifically targets small/medium businesses.

## Global Technology Network (GTN)

GTN facilitates the transfer of U.S. technology to USAID-assisted countries and regions. As USAID missions and local public and private sector partners identify problems, GTN, through its databases, can match the developing country's needs with specific U.S. companies having the appropriate technologies, expertise, and products to address the problem. Through this process, GTN promotes the use of private sector solutions and approaches in USAID development assistance programming. GTN focuses on identifying targeted international business opportunities in environment, agribusiness, health & population, and communication & information technologies.

Opportunities are identified by the USAID field missions and a network of participating in-country public and private sector representatives. The technology opportunities and trade leads are electronically matched with U.S. firms registered in GTN's sector databases. Trade lead information is then faxed or emailed to appropriate U.S. companies.

U.S. Agency for International Development  
GLOBAL TECHNOLOGY NETWORK  
G/EG/BD/GTN Room 100, SA-2  
Washington, D.C. 20523-0229

Telephone: (800)872-4348 or (202)663-2660  
Fax: (202) 663-2670  
Internet: [www.info.usaid.gov/business/ctis](http://www.info.usaid.gov/business/ctis)  
E-Mail: [ctis@usaid.gov](mailto:ctis@usaid.gov)

## Global Technology Sectors & Services:

### ► Environmental Technology

GTN covers 484 different sub-sectors within the environment, including pollution control, treatment and disposal, and clean technologies. GTN currently manages two regionally focused networks in the Americas and Asia. The Environmental Technology Network for the Americas and Environmental Technology Network for Asia facilitate the transfer of U.S. environmental technologies to address concerns in India, Indonesia, Philippines, Sri Lanka, Thailand, and other parts of Asia, and in Bolivia, Brazil, Ecuador, Mexico, Paraguay, Peru, Argentina, Chile, Costa Rica, and other parts of Latin America.

### ► Agricultural Technology

GTN captures business opportunities within several basic areas: agricultural systems development supports improved agricultural practices; production codes address agricultural inputs; processing and post harvest management includes storage, packaging, marketing, distribution, quality control, and infrastructure development.

### ► Health & Population Technology

GTN includes 70 sub-sectors covering basic areas in the health and population field to strategically identify and track business opportunities involving health care centers, health education, economics, management, and service delivery, medical supplies and equipment, and pharmaceuticals.

### ► Communications & Information Technology

GTN tracks a broad range of activities such as computer technology, education and training, and telecommunications infrastructure.

### ► Center for Trade and Investment Services (CTIS)

CTIS, through the Global Technology Network, serves as the central point of contact at the U.S. Agency for International Development for the U.S. business community. CTIS taps into the extensive information resources of USAID and other U.S. Government and multilateral sources to keep U.S. firms current on commercial developments in USAID-assisted countries. CTIS provides its clients with counseling on positioning themselves to take advantage of USAID business opportunities; and disseminates current market data, notices on promotional events, and other relevant business intelligence.



U.S. AGENCY FOR  
INTERNATIONAL  
DEVELOPMENT

**GTN**  
**Global Technology Network**  
**USAID Office of Business Development**

The Office of Business Development (BD) has managed the Environmental Technology Network for Asia (ETNA), which is a component of US-AEP, since 1993. ETNA is responsible for matching and disseminating environmental trade leads from USAEP technology representatives in Asia to U.S. environmental firms registered with the ETNA database. BD has developed ETNA into a database of over 2,000 U.S. environmental firms covering 484 subsectors within the environment, developed a trade lead matching system which electronically matches environmental problems and needs with appropriate U.S. environmental firms capable of addressing environmental concerns in Asia. BD provides the staff to carry-out the clearinghouse function of receiving the leads, quality control the information in the lead, disseminating the lead, following-up with firms receiving the leads, and marketing the program to register new firms into the program.

Due to the success of the ETNA program in Asia which has lead to \$30-50 million in contract awards, BD expanded the ETNA/Asia activity to replicate these efforts in ten Latin American countries in December 1995. Under this arrangement, the UNDP Technology Information Promotion System (TIPS) has placed in-country technical representatives in Latin America -- similar to those provided by Commerce in Asia. In addition, BD has developed new relationships with US&FCS representatives in Brazil, Argentina, and Mexico, to receive environmental information from posts in these countries. BD has just concluded a new agreement with Programa Bolivar which will bring additional information posts in 19 countries, and 113 business centers in Latin America and the Caribbean into the network. This new relationship will cover agribusiness, health and the environment.

In May of 1997, BD expanded to Africa and into additional USAID development sectors covering health, agri-business and information technology. In South Africa, Zimbabwe, Uganda, and Kenya, BD is using in-country tech reps through the UNDP arrangement. We are also working with the Department of State and are receiving information from Cameroon and Cote d'Ivoire. BD is expected to sign a MOU with the Corporate Council on Africa (CCA), with the CCA funding a full-time tech rep in Ghana to work with the West Africa Enterprise Network to gather leads/information in countries in west and central Africa.

All of these activities are coordinated under BD's U.S.- Global Technology Network (US-GTN), which has expanded the environmental focus to provide similar clearinghouse services in other sectors, e.g. agri-business, health, information technology, and other geographic areas.. G/EG/BD through US-GTN, is currently working with the Asia/Near East Bureau, Africa Bureau and the Environment Center in jointly funded activities.



# Environmental Technology Network for the Americas (ETNA)

ETNA assists US firms in finding trade opportunities for environmental products and services in **Argentina, Bolivia, Brazil, Chile, Ecuador, Mexico, Paraguay, Peru, Uruguay, and Venezuela.** An extensive network of local technical representatives and environmental business advisors identify product, service, and infrastructure needs in Latin America. ETNA electronically matches technology trade and investment opportunities in these countries with US environmental firms. The trade lead information is then disseminated to the appropriate US companies. ETNA was established in December 1995, and is managed under an initiative of the United States Agency for International Development (USAID) and the United Nations Development Program (UNDP). The ETNA program addresses critical environmental problems in Latin America by mobilizing US technology and resources. There is no cost for US companies to participate in the ETNA program.

## How are these trade leads and information generated?

The UNDP Technology Information Promotion System (TIPS), operated by DEVNET International, has engineering representatives in the ten field offices. They develop environmental trade leads after conducting on-site interviews and technology requirement reviews with members of the government and business communities. This information is sent via satellite to USAID's office in Washington, where ETNA personnel match demand-driven Latin American technology needs to US companies through an extensive coding system. Each trade lead outlines the exact specifications of a Latin American buyer, available funding, and detailed contact information.

## Other ETNA services:

A glossary of ETNA's environmental technology codes is provided to Latin American buyers to assist in the selection of appropriate US products and services. ETNA disseminates current market and country information as well as updates on future trade shows in each of the ten Latin American countries represented. ETNA also provides counseling services to US environmental companies, nongovernmental organizations, and state and local government agencies.

## About the sponsoring organizations:

ETNA is a joint program of USAID's Global and LAC Bureaus, UNDP, and the Department of Commerce. The program is managed by USAID's Center for Trade and Investment Services (CTIS), which provides a central point of contact for information collection and dissemination on USAID programs and activities in various sectors, such as environment, energy, agribusiness, health, and training.

**For more information or to register, please contact:**

**Environmental Technology Network for the Americas  
Center for Trade and Investment Services  
515 22nd Street NW, SA-2 Room 100  
Washington, DC 20523-0229  
Tel: 800-872-4348 or 202-663-2674  
Fax: 202-663-2670**



## **Renewable Energy Cooperators and Contractors**

### **United States Export Council for Renewable Energy**

The United States Export Council for Renewable Energy (US/ECRE), a consortium of seven industry associations founded in 1982, promotes the interest of US renewable energy and energy efficiency companies. These companies provide goods and services in biomass, geothermal, hydropower, passive solar, photovoltaics, solar thermal, wind, wood energy, and energy efficiency technologies. US/ECRE member trade associations are: the American Wind Energy Association (AWEA), National Association of Energy Service Companies (NAESCO), National BioEnergy Industries Association (NBIA), Geothermal Energy Association (GEA), National Hydropower Association (NHA), Renewable Fuels Association (RFA), and Solar Energy Industries Association (SEIA).

Collectively, US/ECRE member trade associations represent more than 1,500 major companies in the US renewable energy and energy efficiency industries, many of which are small and medium sized firms. US/ECRE is 99% government funded. In addition to funding from USAID, US/ECRE its member trade associations, and affiliates organizations receive funding from other federal agencies (DOE, EPA, and DOC). About one-half of funding for US/ECRE and affiliated organizations comes from USAID.

### **Environmental Enterprises Assistance Fund**

The Environmental Enterprises Assistance Fund (EEAF) provides equity and debt investment capital for renewable energy, energy efficiency, and other environmentally responsible technologies in developing countries. It may provide, on a limited basis, business advisory services to companies utilizing these technologies, including technical analysis, entrepreneurship training and managerial assistance.

EEAF supports projects in developing countries that will overcome non-market barriers encountered by small-scale renewable energy and environmentally responsible technologies. In its investments, the Fund can assume relatively high levels of risk. The Fund also utilizes financial assistance from large bilateral and multilateral sources to create renewable energy country-specific funds. Most importantly, it seeks to cultivate the skills of "environmental entrepreneurs" with a presence in developing countries through local funds. EEAF recycles all earnings to new projects.

### **Winrock**

The Winrock International Institute for Agricultural Development (Winrock) has collaborated with USAID in efforts aimed at the development of renewable energy projects in developing countries since 1989. Winrock is a non-for-profit NGO that aims to enhance economic opportunities in rural areas of the developing world. Winrock runs a five Renewable Energy Projects Support Offices or REPSOs (in Guatemala, Philippines, Indonesia, India, and Brazil) which provide in-country support for renewable energy projects.

# **Energy Efficiency Cooperators and Contractors**

## **International Institute for Energy Conservation**

The International Institute for Energy Conservation (IIEC) is the only U.S.-based non-governmental organization devoted solely to promoting energy conservation in developing countries. Since its founding in 1984, IIEC has been providing innovative solutions to the problems posed by the rapidly increasing energy demand in industrializing economies. With more than a decade of experience, IIEC has developed a reputation for being a credible and reliable catalyst, with the flexibility to work simultaneously with multilateral institutions, governments, academic and research organizations, industry, and non-governmental organizations. Since IIEC works primarily through its regional offices in the field, with support from program staff based in DC, IIEC is uniquely positioned to provide USAID access to a broad array of in-country partners - NGOs and private enterprises with whom IIEC's regional field offices have worked for years - and access to in-country policymakers, while providing easy access to this field work with local support from the Washington, DC office.

IIEC has recently signed a cooperative agreement with G/ENV/EET. Under it, IIEC proposes to undertake four activities:

1. Regional Harmonization of Energy Efficiency Standards in Asia and Latin America
2. A survey of the energy efficiency losses associated with the importation and use of second-hand industrial equipment in developing countries
3. Using Integrated Resource Bidding as a tool for introducing sustainable energy investments amidst power sector restructuring
4. Policy initiatives to leverage private sector development for sustainable energy in the Philippines

## **Alliance to Save Energy**

The Alliance to Save Energy (Alliance) is a nonprofit coalition of business, government, environmental, and consumer leaders promoting the efficient use of energy in order to improve the environment, strengthen the economy, help consumers and enhance national security. The Alliance was started in 1977 to bring together America's public and private sectors in a unified effort to promote cost effective energy efficiency.

With a staff of 25, the Alliance has expertise in every areas of the energy sector. We have much expertise on the policy and program area, particularly in the area of buildings and industry. The Alliance employs a wide range of experts with years of experience in designing, implementing and evaluating programs in the following areas: energy efficiency financing, building codes and equipment standards, consumer energy education, and lighting and appliance efficiency.

The Alliance recently signed a three-year cooperative agreement with USAID to implement a series of energy efficiency activities in Ghana, India, and the Ukraine. The agreement seeks to 1) involve the U.S. energy efficiency industry in overseas assistance efforts, 2) foster the creation of indigenous non-governmental organizations to promote energy efficiency, 3) develop effective and sustainable energy efficiency programs on the municipal level, while transferring the lessons learned to other cities, and 4) involve Alliance energy efficiency experts in training and technical assistance activities in target countries.

### **National Association of State Energy Officials**

The National Association of State Energy Officials (NASEO) is a membership organization comprised of the state and territory energy offices from all regions of the U.S. Its mission includes:

1. Providing a forum for the exchange of ideas between state energy officials and the private sector;
2. Fostering public discussion on national energy issues;
3. Highlighting innovative approaches to energy issues at the national, regional, and state levels; and
4. Conveying the benefits of technological advances in energy efficiency and clean energy to consumers and businesses with policymakers in the United States and abroad.

G/ENV/EET is in the process of formalizing a cooperative agreement with NASEO. It is expected that it will be underway by the end of the current fiscal year. Under this one year cooperative agreement NASEO proposes to use USAID funds to continue to work on their Peer Exchange program. This program brings together state and territory energy officials with their counterparts in developing countries to share information on effective energy efficiency and renewable energy strategies. One of the primary assumptions of the program is that the use of sustainable energy concepts in the U.S. can be transferred to developing nations to improve their relative efficiency of energy consumption.

### **Lawrence Berkeley National Labs**

Ernest Orlando Lawrence Berkeley National Laboratory (LBNL) is a multi-program national laboratory managed by the University of California for the U.S. Department of Energy. LBNL is the oldest of the nine national labs. With more than 3,500 employees, LBNL's total annual budget of nearly \$350 million supports a wide range of unclassified research activities in the biological, physical computational, materials, chemical, energy, and environmental sciences. LBNL's role is to serve the nation and its scientific, educational, and business communities through research performed in its unique facilities, to train future scientists and engineers, and to create productive uses for industry. As a testimony to its success, LBNL has had nine Nobel laureates.

Under its contract with G/ENV/EET, LBNL has been active in working in Mexico on building energy standards. It is expected that the successful implementation of Mexican

commercial building standards is expected to result in large net energy savings in reduced energy loads over the life of an average new office building. LBNL has also been active in the Philippines on a motor efficiency characterization study and building standards. Finally, LBNL has been doing work on water purification using ultraviolet light. A small machine was developed that can use a single ultraviolet lamp to purify some 800 gallons of water a day for a very low energy cost.

## **Hagler-Bailly Services**

Hagler Bailly Services advises government institutions worldwide on energy, utility and environmental infrastructure and public policy issues, and helps them acquire the knowledge they need to make decisions for a better world. The company provides innovative environmental, economic, scientific, managerial and technical research and services, grounded in market-oriented sustainability and public/private partnership.

The Environmental Management consulting group of Hagler Bailly Services, Inc. helps domestic and international clients manage environmental issues and prevent environmental problems, whether of local, regional, and/or global impact. With an expert staff of over 50 professionals trained in economics, natural sciences, engineering, and law, the practice provides comprehensive, multidisciplinary research and analysis with over \$16 million in annual revenues.

Public and private sector organizations throughout the world look to Hagler Bailly to help them address the many challenges of environmental management.

Hagler Bailly Services is the main contractor under the Energy Efficiency Project. Hagler has worked on a wide variety of initiatives and projects in four main areas: global climate change (evaluating the environmental impacts of energy generation and use to mitigate the effects of global warming), energy efficiency and environmental improvement (Hagler provides technical, economic, and policy tools to improve energy efficiency in the power industry, transport, and buildings. Hagler has also designed and implemented demand-side management programs.), technology cooperation (working with the private sector to assess markets for technologies for energy efficiency and environmental control.), capacity building and information (Hagler provides information on energy efficiency through access to databases and networks.)

## **EPIQ**

### **Environmental Policy and Institutional Strengthening IQC**

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The US Agency for International Development (USAID) Center for Environment, Bureau for Global Programs (G/ENV), awarded the contract for the Environmental Policy and Institutional Strengthening Indefinite Quantity Contract (IQC)—referred to as the EPIQ mechanism—to International Resources Group, Ltd. (IRG), as the prime contractor, and its partners, Winrock International and Harvard Institute for International Development (HIID). Primary subcontractors include Development Alternatives, Inc. (DAI); Management Systems International (MSI); Planning and Development Collaborative International (PADCO); Conservation International (CI); Center for Naval Analysis (CNA); KBN Engineering and Applied Sciences, Inc. (KBN); Keller-Bliesner; Resource Management International (RMI); Tellus Institute; Urban Institute; and World Resources Institute (WRI). This paper describes the EPIQ mechanism's objectives, contract services available to missions and USAID/Washington (USAID/W) bureaus, contractor capabilities and key personnel, and procedures for processing task orders.

This task order IQC is a performance-based contract that endeavors to enhance USAID's capacity to assist developing nations by responding rapidly to requests from mission, regional bureaus, and partners for services aimed at helping them develop and implement environmentally sound strategic planning as well as to strengthen environmental capacity, institutions, and policies. Services include short-, medium-, and long-term technical support and technical leadership, including policy-related training capacity. Contractor capabilities span a wide range of technical expertise that missions and bureaus should find useful in implementing, developing, and advancing sustainable environment management as a cornerstone of the agency's sustainable development strategy.

The minimum level for a task order is \$10,000. Task orders above \$1 million need concurrence by IRG, as is typical for all IQCs. The initial contract is for three years with two option years, which end, respectively, September 30, 1999, and 2001.

This is a new generation IQC specifically designed to handle larger and longer-term activities in addition to the short-term technical assistance tasks traditionally associated with IQCs. Thus, task orders can be prepared for up to five years duration—in two or more phases. Task orders will be prepared using maximum daily rates for consultants and a fixed multiplier. In contrast to other IQCs and Quantity contracts, this mechanism also allows the COTR considerable flexibility in reallocating level of effort and budget items within an agreed task cost ceiling.

## **2. EPIQ MECHANISM PURPOSE, GOALS, OBJECTIVES**

The EPIQ *project purpose* is (1) to reduce the long-term threats to the global environment of the loss of biodiversity and global climate change and (2) promote sustainable economic growth through sound environmental management and use. At the end of the project, success in achieving this objective will be evidenced by:

- Increased USAID mission ability to access appropriate technical expertise
- Increased capabilities of host countries to access and distribute appropriate technical expertise
- Improved quality and frequency of the dialogue between USAID missions and host governments regarding technical support in implementing strategic planning

Achievement of these conditions will be indicated in a variety of ways, including the improved understanding of environment and economic policy reform that this IQC provides the USAID mission and/or host country; the analytical information, tools, and skills that this IQC technical support imparts to policy analysts and decision-makers; and the higher level of participation and quicker pace of the policy dialogue.

The *project goals* are to provide technical support and technical leadership related to environmental policy and institutional strengthening, and to ensure that the regional bureaus, missions, and host country policy institutions that develop, support, and advocate environmental policy have access to appropriate technical expertise that includes, but is not limited to, organizational development support, training, collaborative policy analysis, support for strategic planning, and/or information sharing.

Because this is a *performance-based contract*, G/ENV will request mission and USAID/W bureaus to help in evaluating project performance by indicating in the statement of work for each task order how the requested services will contribute to the above objectives.

## **3. EPIQ SERVICES**

### **3.1 Activity Areas (include, but are not limited to)**

#### ***3.1.1 Environment Sector Assessment and Strategic Planning***

Provide missions and regional bureaus with technical assistance to carry out full-scale, multi-disciplinary environmental policy assessments as well as strategies and action plans that include a broad examination of environmental concerns and issues. Provide the Environment Center with advisory assistance to develop its own policy-related strategic planning documents.

### *3.1.2 Policy Analysis and Implementation of Policy-Related Programs and Activities*

Provide technical assistance to host countries to develop and implement appropriate policy and decision making incentives and disincentives (including changes in market structures, prices, subsidies, legislation, regulatory and enforcement), and assisting host countries in developing and implementing policy-related decision frameworks and activities.

### *3.1.3 Development of Performance Monitoring Systems*

Provide missions and/or regional bureaus with technical or advisory assistance to develop performance monitoring systems and indicators at the strategic, sectoral, and activity levels for environmental policy and institutional development programs, and provide the Environment Center with technical or advisory assistance to develop a common set of environment indicators to monitor progress and measure the impact of its own environment policy and institutional development programs and those of the regional bureaus and missions.

### *3.1.4 Information Management and Dissemination*

Provide missions and/or regional bureaus the capacity to access and disseminate information on environmental policy and institutional development from and to USAID assisted countries and partners; facilitate the flow of relevant information to and from regional bureaus, missions, and Partners; disseminate relevant information related to environmental policy and institutional development, making maximum use of new and alternative information sources and modes of communication; and work with CDIE to ensure that USAID's development information systems include relevant environment documents.

### *3.1.5 Research, Surveys, Inventory, and Special Studies*

The Environment Center will support a modest environmental policy and institutional development analysis program and is likely to conduct surveys, inventories, and special studies covering a range of environmental subjects of common interest to missions and regional bureaus.

### *3.1.6 Institutional Development*

To promote sustainable environmental management practices, individuals and institutions—both public and private—will need to improve their skills and increase their knowledge in a wide range of environment specific functional areas as well as more generic management skills. Training and technical assistance will be a principal means for building such skills, including:

- Completing assessments and evaluations of institutional capacity strengthening needs and efforts related to the development, adoption, implementation, and evaluation of host country environmental policy issues
- Providing appropriate technical assistance to host countries to develop institutional policy and decision-making capacity (legislative, regulatory, and enforcement) among private sector, public sector, and nongovernmental organizations (NGOs)
- Developing and implementing training programs to enhance the skills and knowledge of USAID's cooperating environmental partners
- Providing technical assistance to host countries to develop and implement institutional strengthening activities through USAID-supported programs and activities
- Facilitating workshops and conferences at local, national, regional, and global levels that discuss environmental issues and problems of common interest to USAID and its partners
- Providing on the job training to staff and officials of government and NGO environmental management agencies and organizations

### *3.1.7 Support for International Fora*

The Environment Center will provide, as requested, technical expertise and leadership on behalf of USAID, the State Department, other US Government delegations, and overseas partners at numerous international fora, including conducting analyses of proposed international treaties or agreements and identifying options for US positions and policy as well as providing background information and materials, including lessons learned, briefing documents, and other general information.

### *3.1.8 Commodity Procurement and Grants Management*

EPIQ may be contracted to assess, analyze, or develop specifications for commodities required by public or private organizations working with USAID assistance. Procurement of approved commodities for USAID partners may be undertaken by EPIQ according to USAID regulations.

Funds may also be available on a grant basis within the scope of this contract provided by missions, regional bureaus, or G/ENV within the scope of this contract which the contractor will administer. In this regard, the EPIQ contract may execute and/or administer grants under awarded task orders.

## **3.2 Advisory, Technical and Training Services**

The EPIQ contract can provide short- and medium-term advisory assistance; long-term in-country advisors; and short- and medium-term training.

These functional areas encompass four areas: (1) strategic planning; (2) policy analysis—incentives and disincentives for the development, adoption, implementation, and evaluation of cross-cutting environmental policies and initiatives; (3) policy-related institutional capacity strengthening and development; and (4) policy-related training.

Clients are likely to find IQC services to be helpful in such activities as analyzing environmental policy and institutional constraints; developing recommendations, options, and strategies for addressing those constraints; developing, implementing, and assessing results packages that include cross-sector and sectoral policy initiatives; developing indicators for monitoring and measuring the performance and impact of policy reform activities; and strengthening host country data collection and analysis capabilities.

### *3.2.2 Long-Term In-Country Advisors*

In-country advisors are available for the life of the project to coordinate and implement delivery orders. Because the initial contract is for three years, however, the maximum initial time period for long-term advisors progressively shortens until USAID approves the contract extension option. Thus, activities that may involve long-term advisors may have to be described and funded in two phases.

Long-term advisors may be requested for any of the specific technical skills required to produce specific deliverables. In addition, they may perform functions such as coordinating the activities of USAID mission and host government personnel engaged in the policy activities; providing technical direction to local consultants and visiting advisory teams; and ensuring the delivery order contract deliverables are produced.

### *3.2.3 Training*

The IQC can offer short- and medium-term technical training of host country decision-makers and technical personnel needed to implement recommended environmental policy reforms. Training services aim to build the host country's capacity to analyze and make more informed decisions on environmental policy issues and include:

- Informal on-the-job training of host country decision-makers and technical personnel that derives from collaborative policy analysis and policy dialogue among contractor, host country, and USAID mission personnel.
- Short-term training workshops aimed at improving the capacity of host country decision-makers and technical personnel to understand and better communicate the rationale and justification for environmental policy reforms. Workshops will usually be held in-country but may be held in a third country if justified in terms of the third country's institutional capabilities, country development experience, the desirability of offering training on a regional basis, etc.

**Environmental Pollution Prevention Project (EP3)  
Program Summary**

<b>Prime Contractor:</b>	<b>Hagler Bailly Services, Inc.</b>	
<b>Project Completion Date:</b>	<b>August 1998</b>	
<b>Amount Obligated:</b>	<b>Core: \$7,900,000</b>	<b>Q: \$13,500,000</b>
<b>Amount Expended:</b>	<b>Core: \$7,000,000</b>	<b>Q: \$ 9,000,000</b>

**What is EP3?**

The Environmental Pollution Prevention Project (EP3) is a five-year program sponsored by the United States Agency for International Development (USAID) to address urban and industrial pollution and environmental quality in developing countries. The goal of EP3 is to promote the adoption of environmental management systems and cleaner production techniques by industry in lieu of end-of-pipe pollution control techniques. To achieve this goal and to ensure the sustainability of the program's pollution prevention initiatives, EP3 resources are dedicated to effect changes in industry practices and environmental policy by developing supportive legal and policy frameworks, addressing environmental problems using prevention approaches, building awareness and in-country capacity, and developing partnerships and networks to provide technical assistance activities, transfer information, and promote long-term sustainability.

EP3 was launched in the summer of 1993 and utilizes three principal mechanisms to provide technical assistance: a contract with Hagler Bailly Consulting, Inc. and 16 subcontractors, a cooperative agreement with the Water Environment Federation (WEF), and an interagency agreement with the United States Environmental Protection Agency (USEPA). Activities in developing countries are initiated through agreements with USAID country missions.

Under the umbrella of EP3, a total of eight USAID missions have established multi-year country programs to introduce pollution prevention concepts in their countries. EP3 country programs are currently operating in Bolivia, Ecuador, Egypt, Indonesia, and Paraguay, and a program is scheduled to begin in Jamaica this summer. EP3 offices in these countries develop partnerships with environmental non-government organizations (NGOs), government agencies, and industry associations and are generally recognized as the leading source of pollution prevention information and technical expertise in these countries. No longer funded by USAID, the staff of the former EP3/Tunisia office continue to provide pollution prevention expertise under the auspices of the Centre de Production Plus Propre (CP3), a privately operated environmental services consulting firm, which is also a UNIDO National Clean Production Center (NCPC). EP3/Chile closed in September 1996 and has transitioned into offering pollution prevention consulting services to the private sector.

In addition to its country programs, EP3 is conducting training and focused technical assistance activities in Peru, and Mexico, with project scoping activities just initiated in El Salvador.

## **Benefits of the EP3 Approach**

To support EP3's ultimate goal of the sustainability of improved environmental management and awareness, EP3 leverages its resources to achieve results through improved industry practices, meaningful policy change at the government level, and creating strong partnerships and opportunities for building in-country capacity.

### *Industry Practices*

Pollution prevention remains a concept until it is accepted and implemented by industry. To promote the adoption of cleaner production technologies and practices, EP3 works closely with industrial facilities to demonstrate the benefits of pollution prevention options.

To date, EP3 has worked with over 80 plants in 13 countries in 19 different industry sectors. As a first step towards encouraging industry to adopt cleaner production technologies, EP3 conducts diagnostic studies of industrial plants to identify affordable pollution prevention opportunities. Once the opportunities are identified, EP3 works with the facility to demonstrate the benefits and share the results with other enterprises in the same industry sector.

Significant environmental benefits have been achieved in the battery (reduced lead emissions), electroplating (reduced toxic chemical discharges), hotel (reduced energy use), leather (decreased water and chrome usage), printing (reduced solvent discharges), and textile (reduced chrome consumption) industries.

### *Policy Reform*

EP3 helps governments devise regulations and policies that use market incentives to encourage pollution prevention and promote cooperation between government and industry. This approach has allowed governments at the local and national levels to recognize the benefits and long-term value of policies that incorporate responsible environmental management concepts.

In Egypt, for example, EP3 is working to develop an environmental management program for the 10th of Ramadan, an industrial city located about 50 kilometers from Cairo. This program will integrate the best features of a traditional regulatory approach with economic incentives in order to promote pollution prevention and improved waste management practices.

### *Partnerships and Capacity Building*

EP3 stresses the development of local capacity to carry out the program's objectives. Evidence of this commitment to develop capacity locally can be found by looking at the organizations that host some of the EP3 country programs. EP3/Ecuador is housed in Corporación OIKOS, a local NGO that was established to promote urban and industrial environmental awareness and provide technical assistance to Ecuadorian industries.

EP3/Bolivia is housed in the National Chamber of Industries (Cámara Nacional de Industrias), and EP3/Paraguay is located within the Paraguayan Industrial Union (UIP). These programs are well-positioned to establish strong partnerships with representatives from many types of public and private sector institutions.

EP3 is also firmly committed to developing comprehensive pollution prevention expertise and skills in its host countries. Developing this breadth of knowledge, or capacity building, encompasses a variety of activities, including deliveries of in-plant, government, and industry trainings, effective report-writing exercises, site visits, regular communication with and between country program staff, and the sharing of technical expertise. One of the most valuable aspects of the program is the transfer of technical knowledge, expertise, analytical approaches, and problem solving techniques from U.S. pollution prevention and process experts to in-country staff and consultants.

For example, in addition to training local staff and consultants in Indonesia, EP3 is providing training to the government, NGOs, and specific sectors of private industry. EP3 is facilitating and supporting an environmental exchange program between the U.S. Environmental Protection Agency and the Indonesian environmental agency (BAPEDAL) and has at least one exchange program planned for each quarter. Another exchange program sponsored by EP3/Indonesia sends professors from U.S. universities to Indonesia to teach students there about pollution prevention, while Indonesian professors spend time in the U.S. increasing their knowledge of the subject.

## **Environmental Law Program (ELP) Program Summary**

**Project Completion Date:** July 1998

**Amount Awarded:** \$283,950

### **Purpose:**

To develop and provide environmental legal and policy support activities which strengthen environmental legal frameworks; build institutional capacity; provide expertise at developing and applying environmental norms; and strengthen rule of law in environmental practices and decisionmaking. Appropriate legal policies work to enhance investments in sustainable development by establishing a supportive framework and by encouraging civil society behavior consistent with sustainable development goals.

### **Background:**

Environmental Law Program (ELP), a joint program of G/ENV and LAC/RSD, provides direct field assistance in environmental law and policy through USAID's overseas Missions and Regional Urban Development Offices (RUDOs), and in collaboration with USAID partners. Drawing from a wide range of experience from around the world and based on needs identified in the field, ELP provides support directly to the field and to USAID partners in the design and implementation of a wide variety of legal and regulatory policy activities. ELP facilitates access both locally and globally to a substantial network of specialists in environmental law and policy.

Because legal solutions to environmental problems must be interdisciplinary in nature, the ELP is designed to be global, cross-cutting, and multisectoral in scope. ELP's portfolio focuses on program areas which include:

- \***Sustainable Urbanization**, addressing urban pollution, solid waste and wastewater management, use of land resources, municipal planning, and local environmental governance.

- \***Biodiversity and Natural Resource Management**, promoting effective laws and policies for protecting areas, habitat preservation and protection of endangered species.

- \***Trade and Economic Growth**, assisting countries in harmonizing environmental norms to facilitate trade and foreign investment, and to reduce economic impact on the environment and human health.

- \***Clean Production Policy**, contributing to existing technical assistance to industries by helping to provide uniform standards, policies, and incentives for sound environmental management practices.

- \***Environmental Impact Assessment**, promoting environmental acceptable and sustainable development considerations during the planning process for major development projects.

**\*Democracy and Environmental Governance**, addressing public involvement in government activities affecting the environment through public hearings, advocacy, and access to information to help ensure sound and politically acceptable environmental decisions are made.

ELP assistance is implemented via the following key activities: 1) technical support, 2) information dissemination and awareness building, 3) intra- and inter-agency cooperation; 4) network building, and 6) foreign environmental lawyers/interns program.

ELP worked with LAC core team members on assessing and developing the Legal and Regulatory Policy sub-Intermediate Result; developing and refining the strategic objectives for HFTE; and drafting a new results framework for the program. In addition, ELP has participated in the development of activities relating to mining policy, pollution prevention, and ISO 14000.. ELP has joined G and LAC staff in efforts to conform the HFTE environmental components with trade policy priorities articulated by the US Trade Representative.

ELP seeks to improve information access and awareness building by promoting "lessons learned" and "best practices" experiences on effective applications of environmental law through publications and public forums. ELP has developed the Environmental Law On-Line activity, through which USAID will establish pilot programs for new internet environmental law and regulatory policy databases.

ELP has developed an extensive network of government officials, NGOs, and private sector environmental attorneys including: American Bar Association; the Environmental Law Institute, the Inter-American Bar Association, the USAEP, ABA/Central and Eastern Europe Environmental Law Initiative; the Environmental Law Alliance Worldwide, the Sierra Club, the World Wildlife Fund, the Audubon Society, the National Wildlife Federation, CEMDA (Mexico) Fundacia Nutura and OIKOS (Ecuador); the Regional Environmental Centers for Eastern Europe; Ecojuris; (Russia); Ecopravo (Ukraine); the Harvard Institute for International Development ; the Institute for Soviet American Relations; SPDA (Peru); IDEADS (Guatemala) and FARN (Argentina).

Through the Environmental Law Scholars Program, ELP facilitates technical information exchanges directly with foreign environmental lawyers studying in the US from regions that include Latin America and the Caribbean, Africa, Europe and the Newly Independent States and Asia.

**Benefit:**

Developing sustainability must be measured not only by resource conservation and renewal, but also by public acceptance and political will. ELP engages stakeholders from all relevant sectors in the legal reform process and promotes civil society participation in development decision-making as a cross-sectoral theme.

# International Resource Cities

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## *Program Overview*

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ICMA, in cooperation with the United States Agency for International Development (USAID) and other international agencies, is pleased to offer an international partnership program—International Resource Cities. Through this Program the skills and successes of selected US local governments are shared with cities in developing and transitional countries around the world. Under this initiative, as many as 25 US cities may be partnered with cities in developing and transitional countries during the next one to two years. The purpose of these partnerships will be to provide technical assistance in improving professional municipal management, supporting participatory and inclusive governance, and improving delivery of environmental services.

Initial funding has been secured to establish several relationships in 1997. Funds will cover the costs of international travel, accommodations, and related expenses. The designated Resource Cities, both in the US and overseas, will be expected to pay the salaries of their employees while they are participating in short-term overseas assignments. Funding for each partnership is available for approximately 18 months.

US city/county managers will be expected to provide the organizational leadership for the Program and will serve as the principal liaison with ICMA. The managers will select individuals to provide technical support to the overseas city. When a US city accepts designation as an International Resource City, the manager will be expected to obtain from the Council and Mayor a resolution indicating their support for the city's participation in the program.

### *Background*

Local governments in developing and transitional countries have often benefited from formal or informal relationships with cities in the US, Canada, and Western Europe. The relationship might be the product of a formal technical agreement in which a more developed city lends its expertise to support a city facing management, environmental, or service delivery challenges. It might have its roots in a peer relationship that blossomed through a Sister Cities exchange.

Recognizing the success of this type of practical assistance, a number of donor organizations (e.g., USAID, the World Bank) are now interested in incorporating municipal technical support partnerships into their development programs. ICMA's prominence as the leading association of local government managers and as an experienced provider of technical assistance overseas makes it uniquely qualified to undertake such an ambitious program. The International Resource Cities Program is being inaugurated in 1997 with USAID support. It is expected to grow in coming years with further financial support from other international donor organizations.

### ***Program Goals***

- To provide technical expertise to enable local government managers in developing and transitional countries to address pressing urban management issues.
- To establish substantive professional relationships between US municipal governments and their counterparts in developing and transitional countries.
- To establish new professional development opportunities for professional urban managers in the US and overseas.
- To facilitate greater understanding of the mutual benefits that can be derived when community leaders in the US, and their overseas partners, achieve sustainable solutions that enhance the capacities of democratic local government.

### ***Obligations of US International Resource Cities***

US cities participating in the Program will be expected to enter into an 18-month agreement with ICMA to provide specific short-term technical assistance to a designated city overseas. This assistance will be provided primarily through city staff, but may also, under the city's direction, be provided by other individuals from the larger community (e.g., universities, Chambers of Commerce, non-profit organizations, etc.). The exact scope of assistance will be determined in consultation with the partner city's local government and outlined in a Memorandum of Understanding (MOU). It is anticipated that the MOU will be drafted and signed by official representatives of both local governments during or following the first exchange visit. The city, or the other local institutions, will continue to pay the salaries of the employees who are involved. Time overseas will generally be short term, usually not exceeding two or three weeks.

The functions of a US Resource City are to:

- Make available appropriate experts to undertake technical support assignments in the overseas city.
- Be a resource to officials from the partner city by hosting them for study tours, internships, etc.
- Share information on management practices, programs, and technology with the partner city.
- Establish an on-line Internet connection with the partner city where possible (funding is available to cover limited expenses for Internet communications).

- Participate with ICMA and the funding agency in the evaluation component of the program.

We expect that each Resource City partnership will be unique, as the needs and resources of each partner will vary. There are, however, some basic elements and general expectations that seem necessary for a successful program. Although ICMA has been involved in city-to-city partnerships for some time, in recent years the Resource Cities Program has emerged as a key component of our work overseas. The information that follows should serve as general guidelines for the Resource City Program.

### ***Specific Roles of the US City/County Manager (or equivalent)***

The US City/County Manager or Chief Administrative Officer will be expected to provide the organizational leadership for the Program and will be the principal liaison with ICMA. He/she will select the individuals who will participate in the overseas assignments based on their ability to fulfill the technical assistance needs of the partner city, consistent with the agreed-to work plan. He/she will also ensure that the individuals selected are accountable for the work that has been assigned to them.

### ***Council Resolution***

After your city has accepted designation as an International Resource City, we require approval for the Program from your City Council through a Council Resolution (for non-council manager forms of government, an alternative format for a resolution may be appropriate). Validation of the program by the professional and elected leadership clearly demonstrates the full commitment of the city to the partnership.

### ***Financial Resources Available to Support the Program***

Initial funding for each partnership under the pilot program is approximately \$65,000 to cover direct travel and per diem over an 18-month period. Funding availability, however, may vary from partnership to partnership, as may funding sources. Funds are available for lodging expenses. Partner cities may consider home stays, where appropriate, in order to minimize costs and increase the number of exchanges. Home stays can also enrich the personal/cultural aspects of the partnership.

### ***ICMA's Role in the International Resource City Program***

ICMA will provide the overall management for the Program. ICMA will be directly involved in coordinating the exchanges and developing the work plan during the initial stages of the partnership. We anticipate, however, that as the partnerships solidify, the technical assistance priorities, travel arrangements, etc., will be arranged between the two cities directly. The US City Manager or his/her designee

will be responsible for apprising ICMA staff of all activities, and schedules and ensuring follow through of staff and completion of trip and other reports. We ask that the ICMA program manager be notified as soon as any specific travel dates have been arranged (usually several weeks in advance) so that we can comply with any notification requirements of the funding agency. US cities will ordinarily not interface directly with funding agencies in Washington; rather, ICMA will serve as the liaison between US cities and funding agencies.



EHP is a USAID centrally funded project that helps missions and bureaus and other development organizations to address both pre- and post-industrial transition environment-related health problems.

- The familiar pre-transitional health problems result from vector-borne diseases (some of which are re-emerging), water pollution, and lack of sanitation.
- Post-transitional problems result from human exposure to air pollution from industry and automobiles, hazardous and toxic wastes, pesticides, and dangerous workplace conditions.

Pre-transitional problems are characteristic of developing countries; post-transitional are more common in developed countries. However, a growing number of countries have the double burden of facing both types of problems.

### Preventive Interventions

Environmental health prevents illness by reducing exposure to adverse environmental conditions and promoting behavioral change. EHP draws on a wide range of preventive interventions at the family, community, and institutional levels. Such interventions complement and fortify health-facility based child survival programs, reduce the burden on the health care system, and lower the costs that households pay for treatment of environmentally related diseases.

### Cross-cutting Areas

- public health
- risk assessment
- epidemiology
- engineering
- technology transfer
- institutional and human resources development
- policy formulation
- community participation
- financial management
- health information system development
- evaluation and applied research
- information services
- procurement of equipment and commodities



Slum or squatter areas ring most cities in developing countries. Environmental conditions in these slums sometimes rival those of refugee camps. A priority strategy for EHP is to draw more attention to neglected urban slums like the one pictured here outside of Lima, Peru.

Oscar Garay/TAFOS/Panos Pictures

### Consortium Structure

In providing technical assistance, EHP has access to the staffs and resources of a consortium of specialized professional organizations led by Camp Dresser & McKee International Inc. EHP subcontractors are listed on the inside back cover of this brochure.

### Information Center

EHP's Information Center provides specialized information through its document and journal collection and access to other databases and libraries. It conducts literature searches, compiles bibliographies, and keeps USAID and EHP technical staff aware of technical advances.

### Publications

EHP publishes material about environmental health strategies and technical issues to meet the needs of the field. A current list of EHP materials is available on request.

### Connection to WASH and VBC

EHP continues and extends the work formerly carried out under the WASH (Water and Sanitation for Health) and VBC (Vector Biology and Control) Projects. EHP is committed to the high standards set by the two completed projects for timely, responsive support to missions and bureaus and is applying the lessons learned over 14 years.

## THE EHP TEAM

- **Prime Contractor: Camp Dresser & McKee International Inc.**
  
- **Core Subcontractors**
  - International Science and Technology Institute
  - John Snow, Inc.
  - Radian International LLC
  - Research Triangle Institute
  - Training Resources Group
  
- **Resource Subcontractors**
  - Associates in Rural Development
  - Center for Financial Engineering in Development
  - FYI Information Resources
  - Johns Hopkins University School of Hygiene and Public Health
  - National Environmental Health Association
  - S. Cohen & Associates, Inc.
  - Tulane University School of Public Health and Tropical Medicine



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## ENVIRONMENTAL HEALTH PROJECT

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## About GreenCOM

GreenCOM is the Environmental Education and Communication Project of the United States Agency for International Development. GreenCOM conducts field work and applied research at the request of USAID Missions and Bureaus to enhance environmental sustainability.

### GreenCOM

- uses interviews, focus groups, and surveys to understand people's awareness and practices around key environmental issues
- uses educational techniques to engage people in learning more about their environment
- trains practitioners to collect their own data to understand audience expectations and changes in knowledge
- incorporates research on gender, occupation, and other relevant variables into communication and education strategies
- explores Best Practices in resource conservation and education that can be replicated in other regions
- designs and implements workshops to explore environmental problems and potential solutions
- works with communities to expand their voice in resource management
- evaluates materials in schools, newspapers, and other media



**GreenCOM**  
Environmental Education and Communication Project

The Environmental Education and Communication (GreenCOM) Project is jointly funded and managed by the Center for Environment, Center for Human Capacity Development, and Office for Women in Development of the Bureau for Global Programs, Field Support, and Research at the United States Agency for International Development and by USAID Regional Bureaus and Missions at collaborating sites.

GreenCOM also operates a Resource Center which collects examples of education and communication materials from around the world. The Resource Center is searchable on the World Wide Web. Contact us with questions or to include your materials in this library.

For more information, contact:

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<http://www.info.usaid.gov/environment/greencom>

GreenCOM Resource Library:

<http://eelink.umich.edu/RESLIB/greencom.html>

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# Listening to People

Using  
Environmental  
Education and  
Communication to  
Improve the  
Environment



**GreenCOM**  
*the*  
**human**  
*nature project*