

ANNOUNCEMENT

PART I: STI PRODUCT DESCRIPTION

(To be completed by Recipient/Contractor)

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International Utility Efficiency Partnerships, Inc.

C. STI Product Title

ENERGY EFFICIENCY PROJECT DEVELOPMENT

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☒ 1. TECHNICAL REPORT

☒ Final ☐ Other (specify) _____

☐ 2. CONFERENCE PAPER/PROCEEDINGS

Conference Information (title, location, dates)

☐ 3. JOURNAL ARTICLE

a. TYPE: ☐ Announcement Citation Only

☐ Preprint ☐ Postprint

b. JOURNAL NAME

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☐ OTHER, SPECIFY

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January 1, 2001 Thru December 31, 2002

H. Sponsoring DOE Program Office

Energy Efficiency and Renewable Energy

I. Subject Categories (list primary one first)

Voluntary international greenhouse gas reduction
project and technologies.

Keywords

J. Description/Abstract

Final Technical Report of Energy Efficiency Projects

Development

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L. Recipient/Contractor Point of Contact

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for additional information (contact or organization name to be
included in published citations and who would receive any
external questions about the content of the STI Product or the
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International Utility Efficiency Partnerships, Inc. (IUEP)

Organization

ANNOUNCEMENT

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☐ Audiovisual material ☒ Paper ☐ No full-text
2. SIZE OF STI PRODUCT 200 –300 pages
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A. STI Product Reporting Requirement Review:

- ☐ 1. THIS DELIVERABLE COMPLETES ALL
REQUIRED DELIVERABLES FOR THIS AWARD
- ☐ 2. THIS DELIVERABLE FULFILLS A
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BUT SHOULD NOT BE DISSEMINATED
BEYOND DOE.

B. DOE Releasing Official

- ☐ 1. I VERIFY THAT ALL NECESSARY
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DOE/EE/11053

**ENERGY EFFICIENCY PROJECT DEVELOPMENT
FINAL TECHNICAL REPORT**

**RONALD C. SHIFLETT, JR.
EXECUTIVE DIRECTOR**



MARCH 16, 2004

**Prepared for the United States
Department of Energy
Award No. DE-FG36-01GO11053**

IVEP TECHNICAL REPORT

**Final Technical Report
DE-FG36-01GO11053
March 16, 2004**

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- ❖ Hydropower Project – Unduavi Chaco Hydropower
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- ❖ Forest Preservation Project – Clean Air
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I. EXECUTIVE SUMMARY

The International Utility Efficiency Partnerships, Inc. (IUEP) has been a leader among the industry groups that have supported voluntary initiatives to promote international energy efficiency projects and address global climate change. The IUEP maintains its leadership by both supporting international greenhouse gas (GHG) reduction projects under the auspices of the U.S. Department of Energy (DOE) and by partnering with U.S. and international organizations to develop and implement strategies and specific energy efficiency projects. The goals of the IUEP program are to (1) provide a way for U.S. industry to maintain a leadership role in international energy efficiency infrastructure projects; (2) identify international energy project development opportunities to continue its leadership in supporting voluntary market-based mechanisms to reduce GHG emissions; and (3) demonstrate private sector commitment to voluntary approaches to global climate issues. The IUEP is dedicated to identifying, promoting, managing, and assisting in the registration of international energy efficiency projects that result in demonstrated voluntary reductions of GHG emissions.

This Final Technical Report summarizes the IUEP's work in identifying, promoting, managing, and assisting in development of these projects and IUEP's effort in creating international cooperative partnerships to support project development activities that develop and deploy technologies that (1) increase efficiency in the production, delivery and use of energy; (2) increase the use of cleaner, low-carbon fuels in processing products; and (3) capture/sequester carbon gases from energy systems. Through international cooperative efforts, the IUEP intends to strengthen partnerships for energy technology innovation and demonstration projects capable of providing cleaner energy in a cost-effective manner. As detailed in this report, the IUEP met program objectives and goals during the reporting period January 1, 2001 through December 31, 2002. At the request of the DOE, we have also included in this report additional activities during the reporting period January, 1999 through January, 2001. This additional information had been reported earlier in the Final Technical Reports that summarized activities undertaken in those earlier periods.

II. INTRODUCTION

The U.S. climate change policy, as articulated by President George W. Bush in his June 11, 2001, and February 14, 2002 climate change policy announcements, has three basic components: slowing the growth of GHG emissions; laying important groundwork for both current and future action; and working with other nations to develop an efficient and effective global response. The third component, which is international cooperation, recognizes the critical importance of developing country participation in any effective global response to climate change. This participation includes both near-term efforts to slow GHG emissions growth and longer-term efforts to build capacity for future cooperation. It also means working hand-in-hand with energy development companies in both the developed and developing world to encourage such participation. Fundamental to our national climate change policy is the need for international activities including the investment in projects that produce measurable reductions in GHG emissions. Therefore, fostering international partnerships is a key strategy for reducing GHG worldwide. U.S. participation in these activities is consistent with the United Nations Framework Convention on Climate Change (UNFCCC).

Accordingly, the IUEP program has been successful in creating partnerships between U.S. companies and international organizations in a voluntary program building energy efficiency projects that are reducing GHG growth. The IUEP has partnered with developing countries and sponsored international GHG reduction projects in approximately 15 countries (including Latin America, Asia, Eastern Europe, and Africa) during the 1995-2002 time period. Since its inception, the IUEP has funded approximately 26 projects with private and public funding. Of the approximately 287 million metric tons (MMT) of carbon dioxide (CO₂) emissions reported by the USIJI Fourth Report to the Secretariat of the UNFCCC in September 1999 as avoided, mitigated, or sequestered in the USIJI pilot program, 50 million metric tons are attributable to the IUEP program (associated with projects either in operation, construction or under development). Some of these projects were funded by the IUEP program during the period 1995-1999, and are not listed in IUEP's current Project Portfolio. Additionally, in 2000, USIJI approved the Taquesi River Hydroelectric project, which is anticipated to generate 10 MMT over a period of 30 years.

In response to the Administration's climate initiative, the investor-owned electric industry—coordinated by Edison Electric Institute (EEI)—partnered with DOE to create the Power Partners. The Power Partners is a joint government-industry initiative to reduce GHG emissions. Through the Power Partners, the investor-owned electric sector and DOE are working together to develop and implement voluntary climate actions to both protect and improve the environment and to sustain economic growth. The Power Partners program has five initiatives, including (1) ForesTree Carbon Company; (2) Coal Combustion Products Partnership (C²P²); (3) Harvesting the Wind; (4) Biomass for Electricity Generation; and (5) International Power Partnerships (IPP). The IPP initiative is administered by the IUEP. Through the IPP, the IUEP is partnering with U.S. government agencies, public and private international organizations and foreign corporations to strengthen collaboration and investment in clean energy technologies between the U.S. and the developing world. Such technologies include (1) small hydroelectric development; (2) renewable energy projects; (3) deployment of combined cycle natural gas units; and (4) system efficiency improvements, among others. Development work on the IPP initiative began in October 2002. EEI President Tom Kuhn and DOE Secretary Spencer Abraham launched the Power Partners and the IPP initiative in Washington, DC on February 12, 2003, during the Bush Administration's announcement of its climate initiative, "Climate Vision." The IPP initiative is in direct response to President Bush's February 14, 2002 announcement to address global climate change. (A brochure describing the Power Partners initiatives is enclosed in Appendix I).

At the Conference of Parties – 9 (COP-9) in Milan, Italy, in December 2003, key U.S. Administration officials agreed that enhanced international cooperation is the key to meet challenges of global climate change. As Deputy Assistant Secretary for National Energy Policy, Department of Energy, Larisa Dobriasky has said, "International cooperation will promote energy investment and will accelerate development of clean energy technologies; effective public-private partnerships can serve as agents of change to leverage private resources and share the risk of research development and deployment; and public-private partnerships can translate government policies into solid games for sustainable development by bringing together the skills and resources of the private sector with government resources and expertise." The efforts described by the U.S. delegation at the COP-9 recognized the vital role public-private

partnerships play in supporting mechanisms that contribute to GHG emission reductions. Accordingly, IUEP has been a leader in creating international GHG reduction partnerships.

III. THE IUEP PROGRAM TO DATE

The IUEP operates within the following guidelines: 1) any actions taken must be voluntary; 2) these actions must recognize federal budget constraints and therefore must be cost effective and leverage significant private sector investment; and 3) these actions must result in GHG reductions that are measurable. Within this grant period, IUEP has successfully met these objectives.

Initiated in 1995 as part of the U.S. Climate Action Plan, the IUEP supports the development of voluntary projects between U.S. and non-U.S. partners that reduce, avoid, or sequester GHG emissions. The IUEP program accepts proposals once a year, and provides financial and technical assistance to project developers based on each year's appropriation. IUEP's Project Selection Committee conducts a formal proposal evaluation and acceptance process. The Project Selection Committee is composed of key individuals and experts in the field of energy efficiency projects. The Committee convenes once a year either by telephone conference call or at the IUEP headquarters in Washington, DC, contingent on preferences of Committee members. Projects accepted into the IUEP program are evaluated against criteria established in the yearly Request for Proposal (RFP) process. These criteria are intended to identify those projects that support the development goals of the host country while providing GHG benefits beyond those that would occur in the absence of cooperative effort activities. The criteria have been formulated to ensure that projects accepted into the IUEP program will produce real, measurable emissions reductions.

The IUEP program offers a full range of technical services to support both the development and implementation of these international GHG reduction projects. These technical services include: (1) identifying project opportunities through existing networks of private and public power constituencies; (2) providing technical assistance to aid project developers in calculating emission reduction benefits; (3) developing monitoring and verification plans; (4) identifying sources of other project financing; (5) information resources including technical guidance documentations and databases; and (6) public recognition to help project participants increase the visibility of their participation in the program.

During the time period 1999-2002, IUEP has completed four rounds of GHG reduction project selections. The objectives of issuing these RFPs were to solicit proposals for international GHG reduction projects, to promote activities that contribute to an overall reduction in CO₂ emissions, to encourage partnerships between representatives of the U.S. electric power industry and businesses within the developing world and to encourage the development and continued progress on international GHG reduction projects. The RFP notifications for these rounds were posted on the IUEP web site (www.ji.org), and on the EEI web site (www.eei.org). As part of the RFP notification process, the IUEP's Executive Director, Ronald C. Shiflett, Jr., attended numerous public conferences and meetings to inform potential participants of the business opportunities available in developing environmentally-friendly energy development projects.

During this reporting period, the IUEP received project proposals in eight countries, including Argentina, Bolivia, Brazil, Ecuador, Hungary, Paraguay, Peru, and South Africa. Thirteen GHG reduction projects were funded totaling \$2.6 million in awards with a total potential private investment of \$1.1 billion over the life of the projects. Over a period of approximately 30 years, these projects, if implemented, are anticipated to generate GHG reduction of at least 190 million metric tons of CO₂ (See the IUEP Project Portfolio section). Of the \$1.1 billion of total potential project investment, currently eight projects with an approximate investment of \$252 million are actual projects. Actual projects are those projects under operation and under construction. A total of five projects with an approximate total project cost of \$879 million are currently proposed projects. Proposed projects are projects under development (See chart I).

In contrast to prior project selection rounds, the 2001 and 2002 grants did not provide an open RFP process. The IUEP, during this period, provided assistance for ongoing projects that had been selected and funded by the IUEP in previous years. This is consistent with the direction in PL 107-66 “for continuation of joint implementation project development.” The projects funded in these rounds were selected in a “down-selection” process, utilizing evaluation criterion stated in the original RFP document.

The IUEP performed site visits and monitored projects awarded during the 1999-2002 round period. As part of the continued monitoring process, IUEP brought senior congressional staff and key Administration officials with oversight of the U.S. climate change policy, foreign affairs, and technology transfer issues to visit greenhouse gas reduction projects in Argentina and Bolivia. As a result, U.S. officials had an opportunity to have a firsthand look at IUEP’s voluntary GHG reduction activities and projects in these countries.

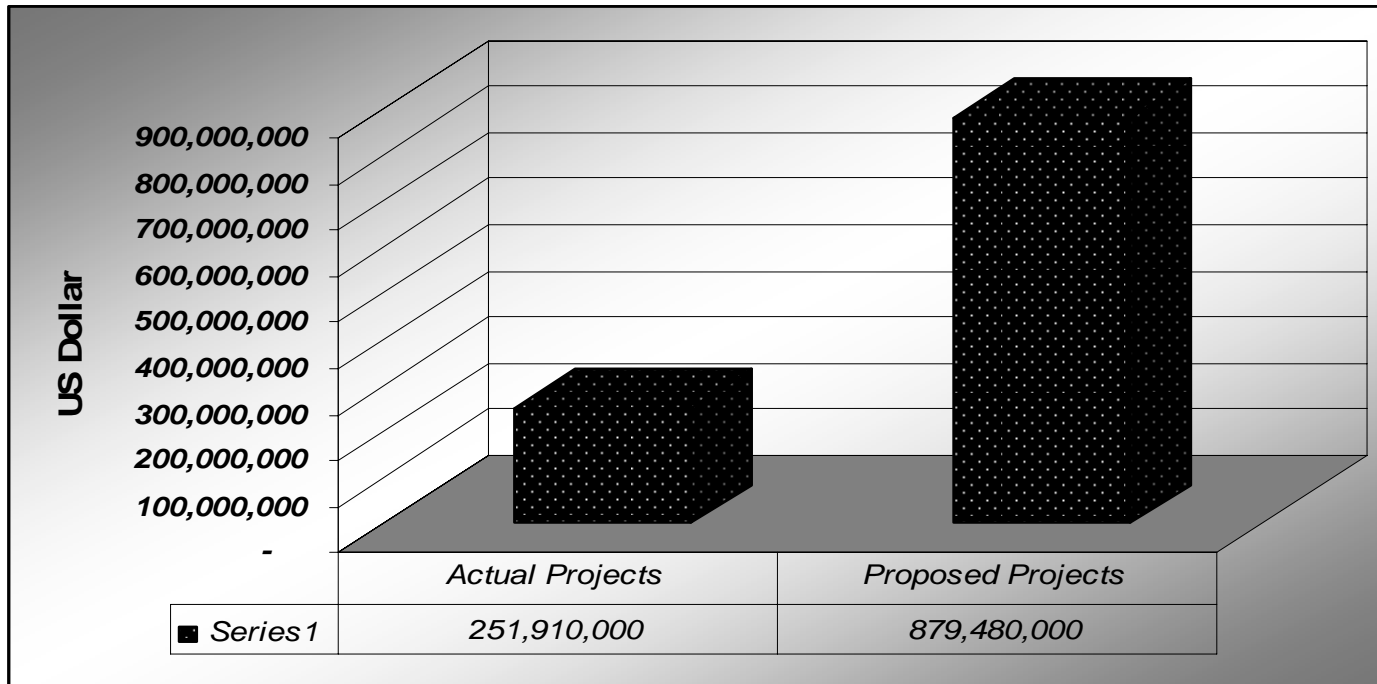
Through similar project development activities and international partnerships, the IUEP has demonstrated that private project investments represent real solutions to GHG emission reduction. Further, projects selected provide: (1) market potential for the export of U.S. energy technology; (2) an ability to create a portfolio of renewable energy projects with GHG reduction characteristics that may qualify for concessionary multilateral financing, either on an individual project or a portfolio basis; and (3) added momentum for continuing project activities.

**IUEP PROJECT PORTFOLIO
PERIOD 1999-2002**

Country	Name Project	Type of Technology	Cumulative Tons GHG Reduction (Million MT CO2E)	Project Cost(US\$)	DOE Total Share (US\$)	Project Stage
Argentina	Pozo del Tume Project	Carbon Sequestration	5	400,000	70,000	Operation
Bolivia	Taquesi River Hydroelectric	Hydropower	10	90,000,000	316,000	Operation
South Africa	Peer Consultants Eco-Homes	Energy Efficiency	7.7	710,000	73,793	Operation
Brazil	Landfill Gas to Energy	Landfill Gas to Energy	3.5	5,800,000	38,286	Under Construction**
Hungary	Electrotek Efficiency	Energy Efficiency	7.71	980,000	73,793	Under Development**
Brazil	Clean Air Forest Preservation	Forest Preservation	5	10,000,000	228,355	Under Construction
Brazil	Clean Air Forest Reforestation	Reforestation / Aforestation	8.1	23,800,000	213,071	Under Construction
Ecuador	Hidro Sigchos Hydroelectric	Hydropower	2.1	22,300,000	119,643	Under Construction
Peru	Huanza Hydroelectric Power	Hydropower	5.6	98,900,000	119,643	Under Construction
Bolivia	Unduavi Chaco Hydropower	Hydropower	2	10,500,000	777,571	Under Development
Brazil	BRG - CO2 capture and Sequestration	CO2 capture and Sequestration	113	610,000,000	23,929	Under Development
Brazil	Clean Air Hydroelectric Inventory	Hydroelectric Inventory	19.31	208,000,000	478,000	Under Development
Paraguay	Carlos Casado - Carbon Sequestration	Carbon Sequestration	0.5	50,000,000	75,000	Under Development
TOTAL			189.52	1,131,390,000	2,607,084	

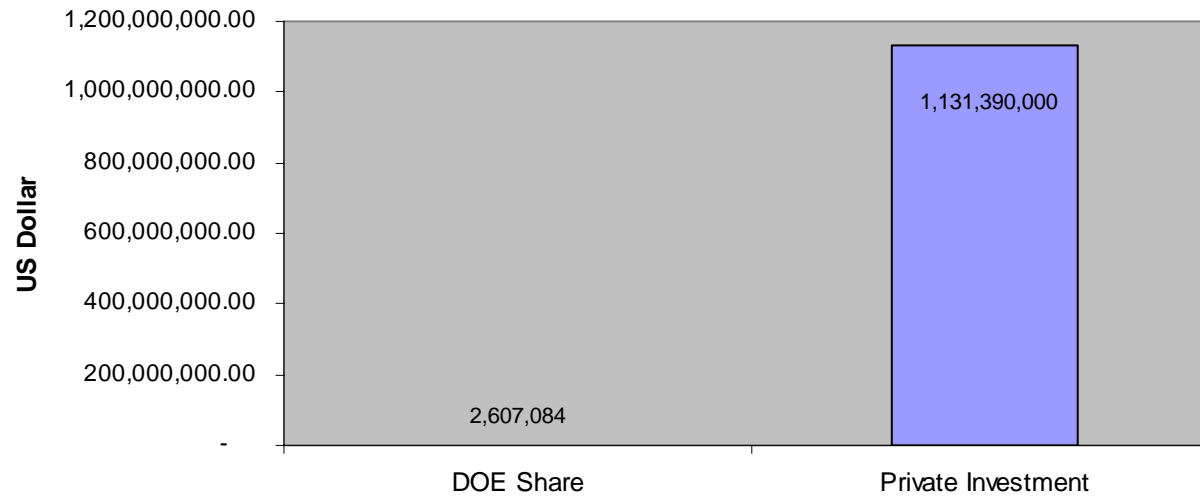
**** These projects were not operational during this reporting period but became operational in 2003.**

I. IUEP PROJECT PORTFOLIO



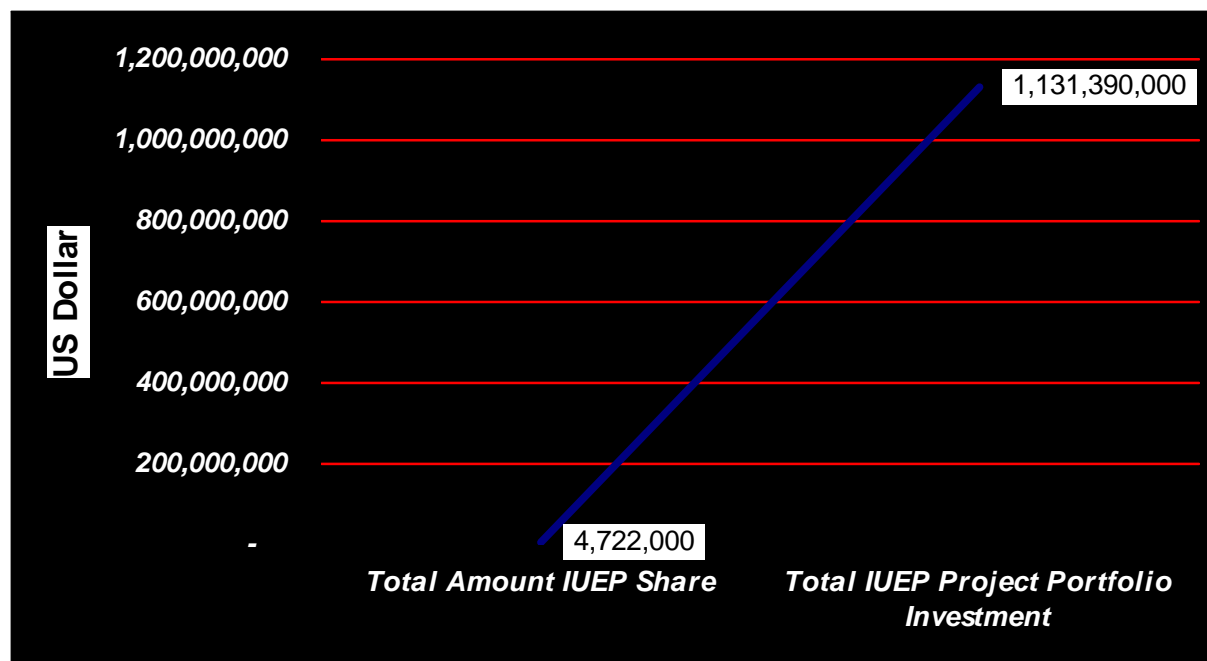
IUEP has funded a total of 13 projects during the time period 1999-2002 with DOE funding with a total project investment of approximately US \$1.1 billion. Currently eight projects with an approximate total project investment of US \$251.9 million (as defined by the developer) are “Actual Projects” (in operation and under construction). A total of five projects with an approximate total project cost of US \$879.4 million are “Proposed Projects.” The Proposed Projects are still under development and intend to continuing their implementation plans.

**II. LEVERAGING EFFECT
DOE FINANCING VS. PRIVATE INVESTMENT
FOR SELECTED PROJECTS FROM 1999 TO 2002**



With DOE funding, IUEP funded a total of 13 projects in eight countries (Latin America, Eastern Europe and Africa) during the time period 1999 to 2002. Total funding of US \$2.6 million is estimated to leverage approximately \$1.1 billion in total project investment.

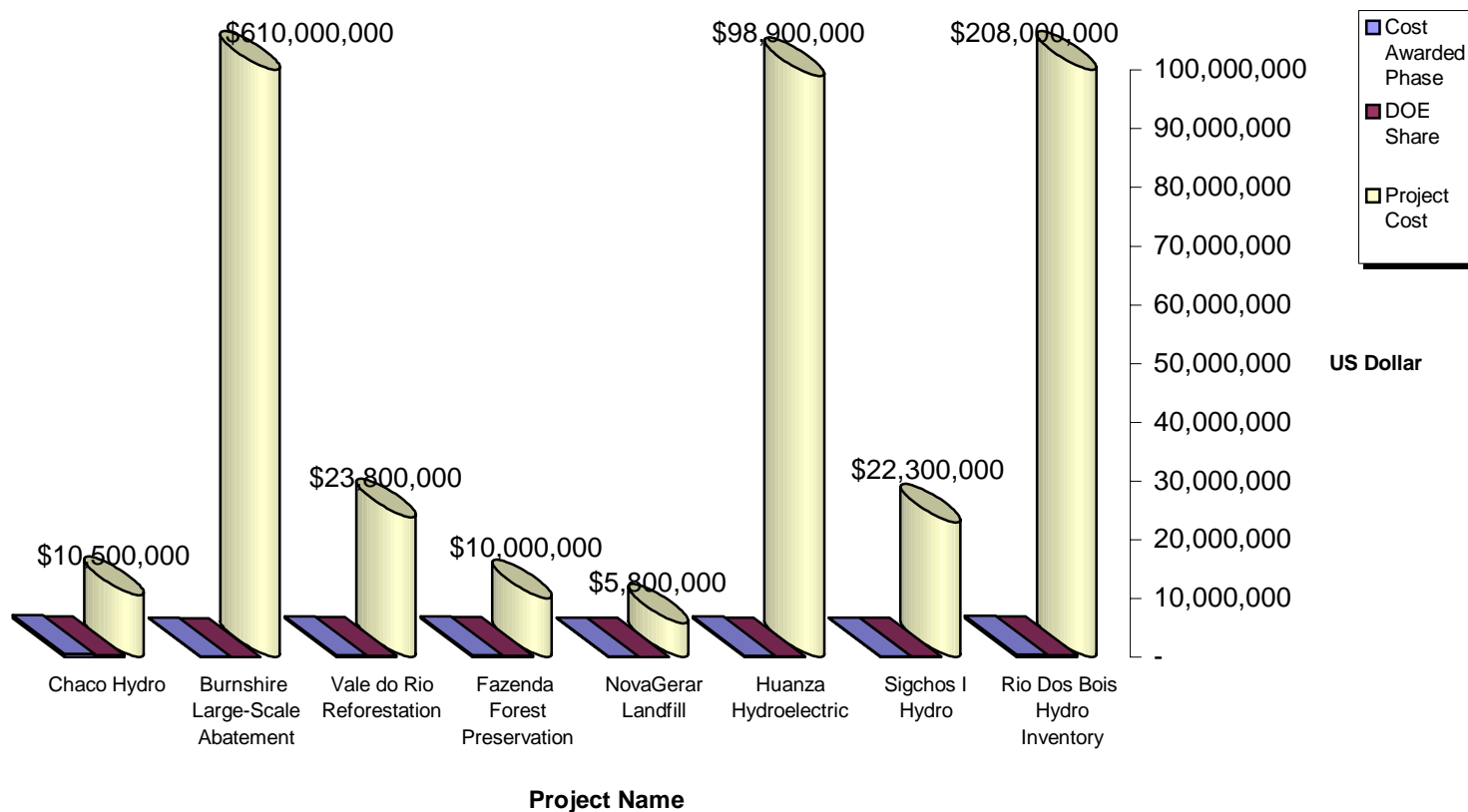
III. TOTAL AMOUNT DOE GRANTS VS TOTAL IUEP PROJECT PORTFOLIO INVESTMENT



IUEP has received a total of US \$4.7* million during the time period 1999-2002. In the 13 GHG reduction projects undertaken, IUEP leveraged this US investment for a total project investment of US \$1.1 billion.

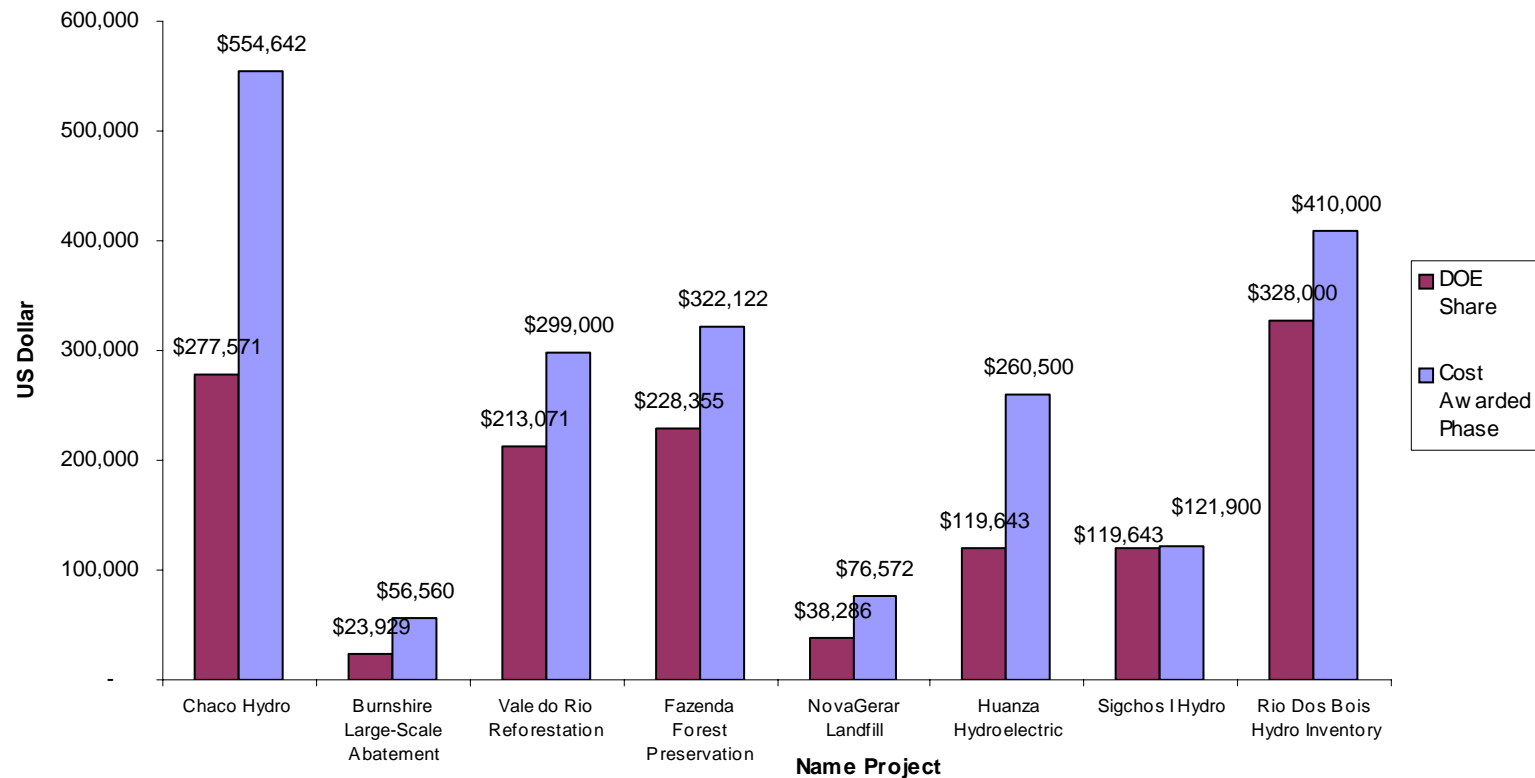
* FY1999 - \$1.25M FY2000 – \$1.5M FY2001– \$1.0 FY2002 - \$972,000

IV. COST AWARDED PHASE VS. DOE SHARE VS. TOTAL PROJECT COST **FOR ROUND 2001-2002**



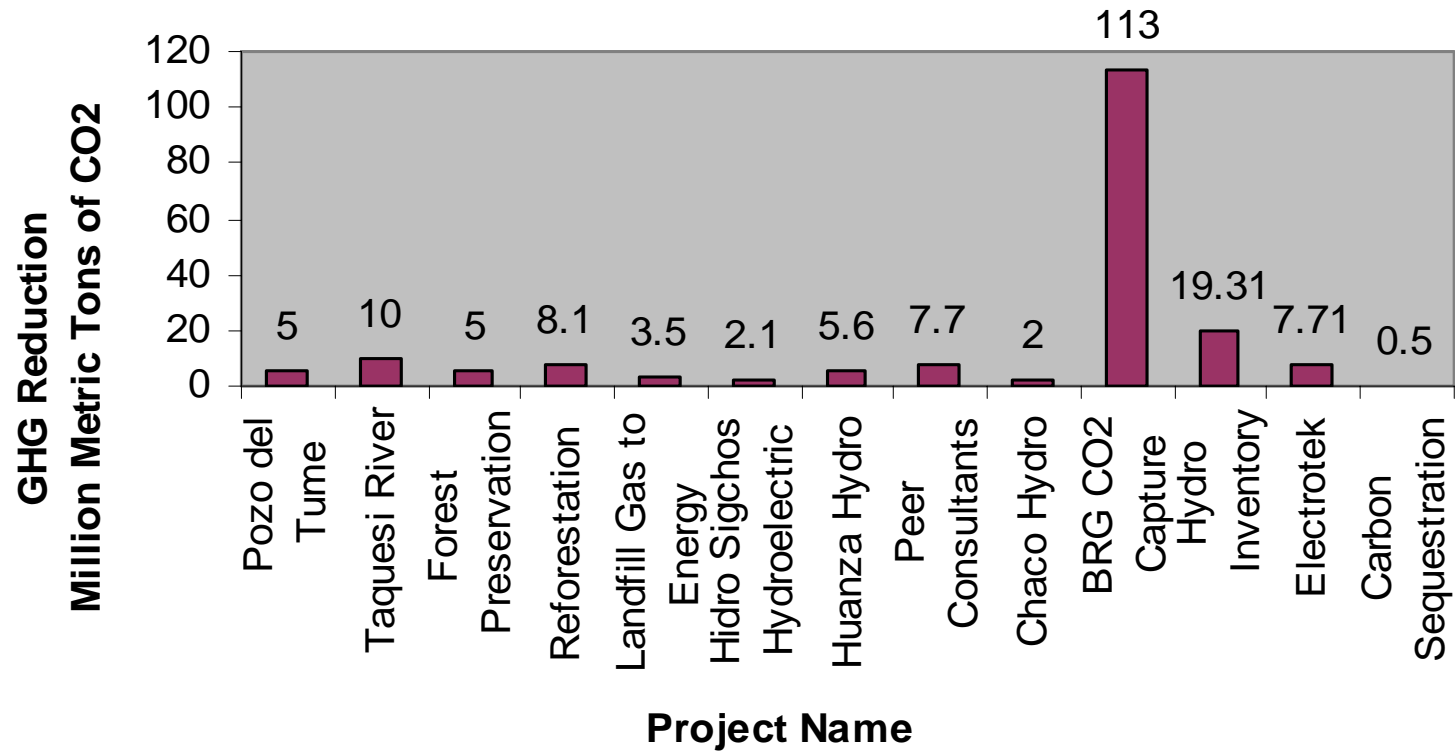
This chart represents total cost of awarded phase compared to total project cost and DOE share for funding period 2001-2002.

V. COST AWARDED PHASE VS. DOE SHARE FOR ROUND 2001-2002



This chart represents total cost awarded phase vs. DOE share for projects funded in 2001-2002. During this project continuation round, projects funded were not subject to a 50% cost share requirement.

**VI. IUEP PROJECT PORTFOLIO
TOTAL CUMULATIVE GHG REDUCTION**



IUEP's projects reduction of approximately 190 million metric tons of CO2 through life of each project (project life is from 5 to 30 years).

IV. PROJECTS UNDER OPERATION, CONSTRUCTION, AND/OR DEVELOPMENT

Tenaska International

Taquesi River Hydroelectric Power Project La Paz, Bolivia

Project Summary

Hidroeléctrica Boliviana S.A. (HB) proposes to finance, construct, own and operate two new run-of-river hydroelectric projects, 83.5 MW in the aggregate, and re-furbish an existing 850 kW hydroelectric facility (cumulative capacity of 84.3 MW), along the Taquesi and Unduavi rivers in the Republic of Bolivia, South America. The project expects to displace approximately 10 million metric tons of greenhouse gas emissions over plant life, representing approximately 286,298 million metric tons of CO₂ equivalent offsets per year over 35 years. The estimated total cost of the project will be approximately \$90 million USD. These projects are near the small communities of La Chojlla and Yanacachi, located approximately 40 kilometers east from La Paz in the South Yungas area of Bolivia. The project is being developed as a result of deregulation of the Bolivian market. Private electric developments are now permitted; with payment based on either spot market prices for firm capacity and energy or negotiated power purchase agreements.

Current Project Status

Funds awarded to this project funded engineering and general developments activities, as well as CO₂ emission monitoring and verification feasibility work. The second and main phase of the project began on January 28, 2000. Hidroeléctrica Bolivia applied to the USIJI through the IUEP and obtained certification in February, 2001.

Peer Consultants

The Guguletu Eco-Homes Project

Project Summary

Peer Consultants, a US company working on housing projects in South Africa, and its sub-contractor, PEER Africa, a South African Company, have forged a link between housing and the sustainable use of energy. PEER requested IUEP's support to continue the development of ECO-homes and to monitor up to 100 homes (Eco-homes and control groups) to establish a performance baseline and then to determine actual performance of the Eco-homes over a period of time. Peer Consultants, will purchase monitoring equipment, and implement a monitoring program to actually determine the annual performance of a new generation of homes being built in South Africa. These homes are energy efficient and will avoid the emission of GHG. This program is being evaluated as a model for other development project throughout South Africa and the developing world. IUEP funded Peer Consultants to continue these objectives.

Current Project Status

With IUEP funding, PEER Africa designed and supervised the building of seven different models of Eco-homes in the Guguletu Township. The Guguletu Housing project is now a part of the US/Republic of South Africa Activities Implemented Jointly (AIJ) Portfolio. It is anticipated that under the AIJ initiative PEER will facilitate the future development of up to 6,000 Eco-homes.

C*Trade

Pozo del Tume Carbon Sequestration Project

Project Summary

Pozo del Tume “Project Company” is an initiative to sequester 5 million metric tons of CO₂ emissions on a 32,258-hectare sustainable forest management project in the Salta Province of Argentina. The land is owned and managed by Estancias El Algarrobo, S.A. and Estancias San Bruno, S.A. IUEP funded Pozo del Tume for the assessment of carbon sequestration forestry management and resource integrated management, as well as carbon dioxide emission reductions trading feasibility work.

The goal of the project is to establish a management system of the different areas of the Pozo del Tume lands to allow for sustainable use of native vegetative resources; including forests, pasturelands and wild fauna. The technical approach of the project is integral, based on the sustainable management of natural resources and a continuous development of knowledge by means of studying and experimenting to improve efficiency and organization. The project will achieve carbon storage through three major activities (1) preservation, (2) logging impact reduction and (3) reforestation.

Current Project Status

The Project is under development.

Electropantanal

Chaco Hydroelectric Power Project

Project Summary

ELECTROPANTANAL intends to reduce greenhouse gas emissions in Bolivia, South America, through the “Chaco” project by avoiding the production of electricity from existing thermoelectric power plants. This project will supply electricity to the National Interconnected Grid from two hydropower facilities (4.2 MW), with the primary market being the city of La Paz. Funding for the CHACO Project will be for engineering and other development activities, as well as carbon dioxide emissions reductions trading feasibility work.

ELECTROPANTANAL (“EP” the “Project Company”) is developing and will operate two new run-of-river hydroelectric power projects (4.2 MW effective capacity in the aggregate) utilizing the water resources of the Unduavi and Chaco rivers in the La Paz Department of Bolivia, South America. Once completed, the facilities expect to displace approximately 2,000,000 metric tons of greenhouse emission over plant life, estimated to be 35 years, or approximately 57,143 thousand metric tons of CO₂ equivalent offsets per year.

Current Project Status

Preliminary environmental screening study, hydrology study and generation license petition are completed. Also, the project was able to execute studies to confirm the value of greenhouse gas emissions reduction as compared to existing production, and the overall feasibility of the project. Studies and activities performed by the project developers include:

- topographical surveys

- environmental assessment report
- hydrology report and the generation license petition
- purchase two 450 KW generating units and one 1.5MW generating unit
- general outcomes of the project's activities included improvement of relations with the community and increased support from municipalities

The Electropantanal, S.A. is now approaching potential investors and other private and public organizations to obtain further financing for the project. The project is now under construction. The main equipment has been purchased, and included: (1) two complete turbine -- generator units, 550 kw and 450 kVA each and (2) one complete turbine – generator unit, 1200 kW, 1500 kVA.

Burnshire Research Group

Large-Scale Abatement of CO2 Enhanced Oil Recovery

Project Summary

BRG proposed an iron reduction project employing a novel combination of commercial technologies to make iron while capturing and sequestering associated CO2 emissions. BRG, along with its allied companies, plan to construct and operate a large, coal-based iron reduction facility in northeastern Brazil, commencing operation in mid-2004. This US \$600 million facility is expected to produce approximately 2.2 million metric tons of 'hot briquette iron' to replace iron smelted in the blast furnaces of integrated steelworks, and will recover 11 million bbls/yr of oil from nearby fields through CO2 enhanced oil recovery. Funds provided for this project were directed to prepare organizational documents and a business plan for the Secretariat of Industry, Mining, and Commerce of the State of Bahia, Brazil.

Project Status

Funds provided for this project were utilized to prepare organizational documents and a business plan for the Secretariat of Industry, Mining, and Commerce of the State of Bahia, Brazil. Project developer facilitated several meeting with officials of the State of Bahia, Brazil, Petrobras, CVRD and other key experts for this purpose. A business plan was submitted by BRG to the Secretary of Industry, Mining, and Commerce of the State of Bahia. On July 12, 2002, IUEP and BRG concluded their cooperation on the project, and BRG is currently seeking investors. IUEP has been requested by the Bahia State government to continue its participation in the project and advise the government on energy efficiency project developments.

Clean Air

Vale do Rio Dos Bois Reforestation

Project Summary

Reforestation of the Dos Bois River Valley is a forest protection and sustainable management project initially conceived as a guideline for the "Rio dos Bois" basin recuperation, including water, sewage, waste, reforestation and forest management. The project targets the sequestration of 8.1 million metric tons equivalent of CO2 emissions. The reforestation and forestation activities include approximately 98,840 acres.

Project Status

Funds provided for this project were directed for the following: (1) full baseline study of the GHG mitigation potential; (2) project design document; and (3) selection and evaluation of economic areas to implant forests for commercial or preservation purposes.

- Project is concluding its final data investigation.
- Project has documented areas forested with pine and eucalyptus in Brazil, location of main lumber consumers, identified main import countries, volume exported, and revenue.
- The project has established partnerships with governmental institutions, mainly to pursue actions of forestry extension.
- The project has located the main regional reforestation areas for pine and eucalyptus and has identified new trees for reforestation, introduced in the Center-South of Brazil.
- Defined the most critical regions to be selected for reforestation incentives.
- Developed specific actions for each region in order to establish the incentive for reforestation seedlings.
- The project is currently seeking investors.

Clean Air, S.A. Forest Preservation

Project Summary

Forest Fazenda São Francisco - Urucuaia is a forest protection and sustainable management project situated in the State of Minas Gerais, Municipality of Urucuaia, Brazil, with a cultivation of 9,600 hectares of Eucalyptus. The project is an initiative to sequester 5 million metric tons equivalent of CO₂ emissions.

Project Status

Funds provided for this project were directed to the development of: (1) full baseline study about the GHG mitigation potential of the project and (2) project design document, including definition of methodology and criteria to define area of preservation.

- The project has identified the vegetative cover to estimate the potential of atmospheric carbon recovery.
- The Brazilian Native Forests project is in its development phase, being about 90% ready. Work remaining includes finishing the reviews, analysis of relevant issues, tabulation and mapping.
- The project stressed the Ministry of Environment National Forests Program, (PNF- *Programa Nacional de Florestas*), with the goal of adding 50 million hectares to the area of National, State and Municipal Amazon Forests (the so-called FLONAS). Of this amount, a minimum of 10 million hectares was set aside before the end of 2003.
- The Ministry of Environment surveyed concerns and suggestions relating to issues linked to the forestry segment on the proposal of expansion and consolidation of the Amazon forests.
- The survey was performed among woodworkers, environmentalists, professionals and researchers, totaling 96 entrepreneurs responsible for processing 14% of the production.

Survey showed 80% supported the idea of getting raw material from the forests. Of the remaining 20%, 2% rejected such policy and 18% had no opinion.

- The entrepreneurs' support to FLONAS forestry exploitation is attributable to the shortage of raw materials in older productive regions.
- The project is currently seeking investors.

EcoSecurities

NovaGerar Landfill Gas to Energy

Project Summary

The NovaGerar project is a joint venture between EcoSecurities, an environmental finance company which specializes in greenhouse gas mitigation issues, with offices in the UK, USA, the Netherlands, Australia and Brazil, and S.A. Paulista, a Brazilian civil engineering and construction firm based in the city of Sao Paulo, Brazil, with branches in several other states and counties. The object of the NovaGerar project is to reduce methane and CO₂ emissions from the Marambaia and Andrianopolis landfills in Brazil. The landfill gas to energy project will require investment in a comprehensive gas analysis and pumping trials, a gas collection system and a modular electricity generation plant (with final capacity 7MW, to be verified when further studies undertaken). The project will capture and combust landfill gas to generate electricity for the grid and reduce greenhouse gas emissions of over 3.5 million tons of CO₂ over the next 10 years (the total project lifetime is 20 years, and will result in emission reductions of over 7 million tons of CO₂). In 2001, NovaGerar sought funding from IUEP to undertake further detailed studies to contribute towards the design and installation of a landfill gas collection system.

Project Status

Funds provided for this project were used to produce the following: (1) engineering studies related to the development of baseline and project design and (2) evaluation and finalization of engineering studies related to the development of the landfill site. Using the documents described previously, the project was able to prepare a monitoring and verification plan, as well as a project design document, which was submitted to the World Bank. The project has been certified by World Bank environmental standards. The project developers are currently seeking funding from the World Bank, IDB, and CAF.

- Developed a full baseline study about the GHG mitigation potential of the project and project design document.
- Finalized the engineering studies related to the development of the landfill site, as well as the gas collection system and the water treatment system.
- Submitted the project design document to the PCF and subsequent commitment to invest by the World Bank.
- Submitted a project design document to the Brazilian authorities.
- The letter of approval was submitted to the World Bank in September 2002.
- The project is currently in its final stage of a due diligence review by the World Bank to finalize the Emission Reduction Agreement.
- The project's activities have already been initiated and it is expected that the project will begin to operate in 1Q 2003.

- The project is currently seeking investors.

HARZA

Huanza Hydroelectric Power Hydro Facility

Project Summary

Huanza proposed to finance, construct, own and operate the Huanza Hydroelectric project, an 86 MW run-of-river facility located some 130 kms from Lima, the capital city of Peru. The project develops the upper reach of the Pallca River basin, located in the Department of Lima in Peru. Huanza captures water from an existing transandean diversion tunnel that flows into the Pallca River. The project benefits from water released from the Marcapomacocha system of lakes, which is the principal source of potable water for the city of Lima. Marcapomacocha gathers water from the eastern side of the Andes and has multi-annual storage.

The primary objective of the Huanza Hydroelectric Project is to provide additional capacity to the Peruvian electric system. In addition, the project contributes to the goals of the Peruvian government to accomplish a 90% electrification rate for the country by the year 2010. The Huanza project has been made a priority for investment by the Peruvian government and is part of the Business and State Investment Plan 2000-2005. Electricity from the Project will be sold on the Peruvian spot market, operated by the Committee for Economic Operation of the System - COES (Comité de Operación Económica del Sistema).

Project Status

The Huanza Hydroelectric project is well on its way to receive final clearances necessary to begin construction. The Definite Generation Concession, the Temporary Interconnection Concession, as well as the Water Rights have already been obtained. A commercial operation is expected for early 2005. The project is currently seeking investors, and management has been replaced in 2003.

HidroSigchos

Sigchos I Hydroelectric Power Hydro Facility

Project Summary

The Aglomerados Cotopaxi and Consorcio Hidrosigchos goal is to efficiently reduce greenhouse gas emissions in the Republic of Ecuador through the Sigchos I Power project. The project would displace electrical energy produced from thermoelectric power plants. The Aglomerados Cotopaxi and Consorcio Hidrosigchos are developing and want to operate the new run-of-river Sigchos, phase 1, hydroelectric power project of 18 MW effective capacity, by using the upstream water resources of the Toachi River in the Cotopaxi Province, Republic of Ecuador. The power will provide electrical energy, from a run-of-river facility of 18 MW, through a Power Purchase Agreement. The developers requested the funds for funding engineering studies and related development activities that will permit the company to seek investors or direct funding for the construction and future operation of the project.

Project Status

The award was used by Aglomerados Cotopaxi and Consorcio Hidrosigchos to perform investigation and feasibility studies including Geology and Environment assessments. Among the studies performed are regional geology; local geology; project area basic geology and stratigraphy; project site lithology; topography; volcanic risks; seismic risks; design of electromechanical elements of the central and redesign of the Central Civil works (engineering); Also, among the studies performed are biology studies; climate and air studies.

Major improvements of the Sigchos I Power project:

- Potential benefit of greenhouse gas emissions reduction has been confirmed.
- Development of an environmental management plan.
- Project feasibility has been confirmed.
- Sigchos community support has increased.
- Project has received the complete endorsement of the Ministry of Environment of Ecuador.
- Project is now under the World Bank analysis for financing.
- The project has already been granted the official permits issued by National Electricity Council and the official water usage permit issued by National Hydraulic Resource Council.
- The project is currently seeking investors.

The Aglomerados Cotopaxi and Consorcio Hidrosigchos are now in search of continued support from the Republic of Ecuador and the U.S.

Clean Air, S.A

Hydropower Inventory Potential

Project Summary

The project is part of an Inventory program conducted by Goias Utility Company. The inventory study is in a preliminary phase, and is essential to development of determining potential for hydropower. In Brazil there is an immense hydropower potential (more than 100,000 MW) which could be developed. In this phase, all possible dams are located trying to find the optimal way to develop a river. All important parameters to evaluate each hydropower plant are calculated, such as firm energy, peak capacity, and flooded land. The project is being developed in such a way to establish the potential for voluntary GHG reduction from the Brazilian hydropower inventory potential, describing the inventories of all five Brazilian regions: North, Northeast, Center-South, Southeast and South.

Project Status

Funds provided for this project were used to produce the following: (1) database of all Hydropower plants planned in Brazil, (2) definition of methodology to calculate hydropower GHG reductions potential and (3) contract with equipment producers and engineering. The project is currently seeking investors.

Electrotek Concepts Comprehensive Energy Conservation Program

Project Summary

The project consists of the development, design, and implementation of a comprehensive series of measures at the Taurus EMERGE Rubber Plant in Szeged, Hungary. These measures will result in a reduction in the consumption of natural gas and electricity, both of which are emitters of greenhouse gasses, primarily carbon dioxide. The elimination of carbon dioxide emissions will be accomplished through a series of measures within the plant to reduce the need to generate steam, which is produced by burning natural gas, plus a reduction in the consumption of electricity, which will be accomplished by operating a vulcanizer directly from steam rather than from electricity. The proposed project describes the measures in detail, as well as the process for estimating the greenhouse gas reductions.

There are several noteworthy features of the proposed project. It will be one of the first industrial projects in Eastern Europe, based on an energy performance contract (EPC). This means that the project developer, Electrotek, will guarantee that the estimated reductions will actually be realized. The guarantee will be backed by a performance bond. The next noteworthy feature of the proposed project is that the savings, quantified in terms of annual energy units of natural gas and electricity, and translated into annual reduced emissions of carbon dioxide, will be monitored and guaranteed, as an integral part of the EPC, using a standard, international protocol (IPMVP-DOE/EE-0157). Another noteworthy feature is that the project is very cost-effective, having a simple payback period of three years. It is the opinion of the project developer that the performance can be replicated in factories throughout Central and Eastern Europe.

Project Status

IUEP was informed by the Electrotek Project developers, that the project was in operation in 2003.

Carlos Casado, S.A. The Laguna Tigre and Mariscal Estigarribia Project

Project Summary

This land management and carbon sequestration project consists of two plots of land totaling approximately 100,000 hectares (250,000 acres), Laguna Tigre (50,000 hectares) and land 60 km north of Mariscal Estigarribia (50,000 hectares), in the Gran Chaco. Laguna Tigre covers a part of the District of President Hayes and Alto Paraguay and Mariscal Estigarribia is located within the District of Boqueron. The nature reserve would sequester greenhouse gas emissions in an economically efficient manner, while conserving land, protecting endangered wildlife and developing sustainable forestry activities.

Project Status

Carlos Casado, S.A. has held discussions with a number of potential investors in this project. Carlos Casado, S.A. is currently monitoring international activities regarding the role of forestry

and land sequestration projects as a means to reduce or requester greenhouse gas emissions. This corporation believes that this issue may have significant commercial implications to the forest product and agricultural industries of South America. Accordingly, Carlos Casado, S.A. has been engaged in discussions with representatives of the U.S. industry that may have an interest in pursuing carbon sequestration projects on land currently owned by Carlos Casado, S.A. in Paraguay. Further, Carlos Casado, S.A. is engaged in early discussions with other members of Argentine industry that may have an interest in establishing an Argentine-based trade organization whose principal mission will be to facilitate and develop commercial aspects related to greenhouse gas emission reduction strategies.

V. CONCLUSION AND LESSONS LEARNED FROM PROJECT ACTIVITIES

The IUEP program, within this grant period, supported the Administration's pursuit of climate change cooperation within the context of bilateral agreements between the U.S. and the developing world. The IUEP has built international alliances in support of voluntary and economic approaches to climate change, formed partnerships between both the public and private sectors and international organizations, and been a leader in a successful multi-agency effort to promote, manage, and recognize international GHG reduction projects that result in reductions of CO₂ emissions. The IUEP program has successfully demonstrated the achievement of three of its program objectives: 1) any actions taken must be voluntary; 2) these actions must recognize federal budget constraints and therefore must be cost effective and leverage significant private sector investment; and 3) these actions must result in GHG reductions that are measurable. Within this framework, the IUEP has demonstrated a successful GHG emission reductions program, which has contributed to the achievement of the President's stated climate policy goals.

Through its partnerships and within its own program activities, the IUEP identified projects in the developing world that foster economic growth in the U.S., as well as in the developing world. These projects use measures that include broad-based market programs as well as new and cleaner technologies to contribute to voluntary actions to address climate change. The IUEP committed to fund projects that promote the use of renewable energy, among other voluntary actions to address global climate change. Projects funded under the IUEP program have enhanced support in the developing world for clean energy development and have directly supported international bilateral cooperation. The IUEP focused on developing partnerships between the U.S. electric power industry and the developing world to develop voluntary climate actions to protect the environment and to sustain economic growth. The IUEP continued participation in international meetings to further the activities of the IUEP program and the role of the U.S. in voluntary actions to address global climate change. These partnerships have led to specific projects and activities, which have been discussed within this final report.

Lessons learned by each project development activity have been disseminated to the private sector and public sector by participating in workshops and conferences sponsored by the U.S. government, the United Nations Framework Convention on Climate Change, and by other developing countries. More specifically, the funds assigned by DOE and IUEP to these project activities contributed to the following achievements:

- Recognized U.S. leadership in initiating voluntary actions to address global climate change.
- Encouraged partnerships on climate change issues between U.S. and the developing world.
- Expanded research and development of climate-related science and technology.
- Expanded use of energy efficiency and renewable energy activities.
- Created business opportunities between U.S. and the developing world.
- Recognized the potential of sequestration projects.
- Allowed project developers to produce environmental assessment reports, GHG reduction and sustainability reports, geological reports, hydrological reports, project design, project business plans, among others.
- Allowed project developers to create verifiable CO2 reductions that may be able to be registered in the 1992 U.S. National Energy Act, Section 1605 (B) Registry, as administrated by the DOE.
- Facilitated project developer contact with international organizations, such as the World Bank PCF.
- Allowed project developer to enter into the final stages of due diligence with financial institutions.
- Allowed for monitoring and verification of projects.

All projects funded by the IUEP provided project reports stating their accomplishments and activities undertaken with the funds awarded. The IUEP continues its project monitoring to ensure proper use of funds by projects, as well as to monitor the awardees' advancement in implementing the proposed project.

FORMS

- ❖ **Patent Certification**
- ❖ **Property Certification**
- ❖ **Final Request for Advance or Reimbursement**
- ❖ **Final Financial Status Report**
- ❖ **Federal Cash Transaction Report**

PATENT CERTIFICATION

International Utility Efficiency Partnerships, Inc.

Contractor

☐ Interim Certification

X Final Certification

DE-FG36-01GO11053

DOE Prime and/or Subcontract Nos.

Contractor hereby certifies that:

1. All procedures for identifying and disclosing subject inventions as required by the patent clause of the contract have been followed throughout the reporting period.
2. There were no subcontracts or purchase orders involving research, development, and demonstration except as follows: [State none when applicable.]
3. No inventions or discoveries were made or conceived in the course of or under this contract other than the following

(Certification includes ☐ , does not include ☐ all subordinates):

[State none when applicable.]

TITLE	INVENTOR	DATE REPORTED	DOE "S" NO.*
N/A	N/A	N/A	N/A

4. The completion date of this contract is as follows: December 31, 2002

5. The following period is covered by this certification:

January	1	2001	to	December	31	2002
Month	Day	Year		Month	Day	Year

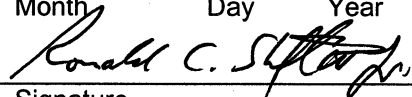
International Utility Efficiency Partnerships, Inc.

Contractor

2000 L Street NW, Suite 805

Washington, DC 20036

Address


Signature

Ronald C. Shiflett, Jr.

March 16, 2004

Date of Certification

* Also include Subcontract No. if available

**U.S. DEPARTMENT OF ENERGY
GOLDEN FIELD OFFICE**



PROPERTY INVENTORY CERTIFICATE-ASSISTANCE

Grant/Cooperative Agreement No. DE-FG36-01GO11053	Grantee/Recipient International Utility Efficiency Partnerships, Inc.		
Based on the Grantee/Recipient records, and in accordance with the Property Standards set forth in 10 CFR 600.130 through 600.137 (600.230-600.233 for States), all real and personal property provided by, or partially or wholly funded by, DOE, and now in the custody of the Grantee/Recipient is listed and accounted for below.			
I. REAL PROPERTY (Real estate)(10 CFR 600.132/600.232) A. <u>Federally-Owned:</u> X NO <input type="checkbox"/> YES (If yes, attach list the property) B. <u>Acquired With Project Funds:</u> X NO <input type="checkbox"/> YES (If yes, list below and complete C) C. <input type="checkbox"/> The property will continue to be used for the purposes authorized by the award. <input type="checkbox"/> The property is no longer needed and DOE disposition instructions are requested. <input type="checkbox"/> The property is no longer needed for the purposes of the award, and DOE approval is requested to use the property for project(s) listed below: N/A			
II. NONEXPENDABLE PERSONAL PROPERTY (Equipment)(10 CFR 600.134/600.232) A. <u>Federally-Owned:</u> X NO <input type="checkbox"/> YES (If yes, attach list of property) B. <u>Acquired With Project Funds:</u> X NO <input type="checkbox"/> YES C. <u>Acquired With Project Funds and Exempt:</u> X NO <input type="checkbox"/> YES (If yes, explain why and attach list) D. <u>Acquired With Project Funds and NOT Exempt:</u> Property in inventory at a unit fair market value of \$5000 or more: X NO <input type="checkbox"/> YES (If yes, complete (1)-(3) below) (1) <input type="checkbox"/> Property will continue to be used for the purposes authorized by the award. (2) <input type="checkbox"/> Property is no longer needed for Project, and shall be used in the following federally-sponsored activity/activities: (3) <input type="checkbox"/> Property is no longer needed for Project or other federal activities, and: <input type="checkbox"/> Grantee/Recipient requests DOE disposition instructions. <input type="checkbox"/> Grantee/Recipient wishes to retain the property and: Fair Market Value of the property is estimated at _____ Basis of estimate: _____			
III. EXPENDABLE PERSONAL PROPERTY (10 CFR 600.135/600.233) A. N/A There is residual inventory exceeding \$5000 in aggregate fair market value. (If checked, continue.) B. <input type="checkbox"/> The property will be used on other federally-sponsored activities. C. <input type="checkbox"/> The property will be retained for use on other nonfederally-sponsored activities. (If checked, complete D.) D. The Aggregate Fair Market Value of the property N/A is _____ Basis of estimate of value is _____			
Name: Ronald C. Shiflett, Jr.	Signature: 	Title: Executive Director	Date: March 16, 2004

The below is to be completed by the Government:

Project Officer Signature:	Date:
Recommended Property Disposition:	
Property Officer Signature:	Date:

Standard Form 270

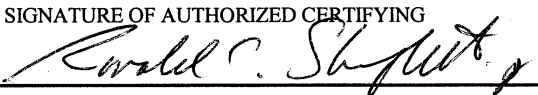
REQUEST FOR ADVANCE OR REIMBURSEMENT (See instructions on back)		OMB APPROVAL NO. 0348-0004		PAGE 1 2 PAGES
		1. TYPE OF PAYMENT REQUESTED a. "X" one or both boxes ADVANCE <input checked="" type="checkbox"/> REIMBURSEMENT b. "X" the applicable box <input checked="" type="checkbox"/> FINAL <input type="checkbox"/> PARTIAL		2. BASIS OF REQUEST <input type="checkbox"/> CASH <input checked="" type="checkbox"/> ACCRUAL
		3. FEDERAL SPONSORING AGENCY AND ORGANIZATION ELEMENT TO WHICH THIS REPORT IS SUBMITTED U.S. Department of Energy		4. FEDERAL GRANT OR OTHER IDENTIFYING NUMBER ASSIGNED BY FEDERAL AGENCY DE-FG36-01GO11053
6. EMPLOYER IDENTIFICATION NUMBER 52-1985160		7. RECIPIENTS ACCOUNT NUMBER OR IDENTIFYING NUMBER RN: 054000030 AN: 17173637		8. PERIOD COVERED BY THIS REQUEST FROM (month, day, year) 1/1/2001 TO (month, day, year) 12/31/2002
9. RECIPIENT ORGANIZATION Name International Utility Efficiency Partnerships, Inc. 2000 L Street, NW Suite 805 Number and Street City, State and ZIP code Washington, DC 20036		10. PAYEE (Where check is to be sent if different than item 9) Name Number and Street City, State and ZIP code		
11. COMPUTATION OF AMOUNT OF REIMBURSEMENTS/ADVANCES REQUESTED				
PROGRAMS/FUNCTIONS/ACTIVITIES	(a)	(b)	(c)	TOTAL
a. Total program outlays to date <i>(As of date)</i> December 31, 2002				\$ 3,425,119
b. Less: Cumulative program income				
c. Net program outlays <i>(Line a minus line b)</i>				3,425,119
d. Estimated net cash outlays for advance period				
e. Total (Sum of lines c & d)				3,425,119
f. Non-Federal share of amount on line e				1,485,804
g. Federal share of amount on line e				1,972,000
h. Federal payments previously requested				1,939,315
i. Federal share now requested <i>(Line g minus line h)</i>				32,685
j. Advances required by month, when requested by Federal grantor agency for use in making prescheduled advances	1st month			
	2nd month			
	3rd month			
12. ALTERNATE COMPUTATION FOR ADVANCES ONLY				
a. Estimated Federal cash outlays that will be made during period covered by the advance				
b. Less: Estimated balance of Federal cash on hand as of beginning of advance period.				
c. Amount requested <i>(Line a minus line b)</i>				

AUTHORIZED FOR LOCAL REPRODUCTION

(Continued on Reverse)

 STANDARD FORM 270 (Rev. 2-92)
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CERTIFICATION

certify that to the best of my knowledge and belief the data on reverse are correct and that all outlays were made in accordance with the grant conditions or other agreement and that payment is due and has not been previously requested.	SIGNATURE OF AUTHORIZED CERTIFYING 	DATE REQUEST SUBMITTED March 16, 2004
	TYPED OR PRINTED NAME AND TITLE Ronald C. Shiflett, Jr. Executive Director	TELEPHONE (AREA CODE, NUMBER, EXTENSION) (202) 293-7992

space for agency use

Public reporting burden for this collection of information is estimated to average 60 minutes per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden to the Office of Management and Budget, Paper Reduction Project (0348-0004), Washington DC 20503.

PLEASE DO NOT RETURN YOUR COMPLETED FORM TO THE OFFICE OF MANAGEMENT AND BUDGET, SEND IT TO THE ADDRESS PROVIDED BY THE SPONSORING AGENCY.

INSTRUCTIONS

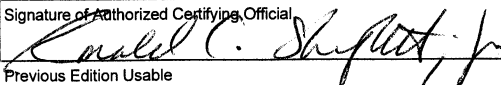
Please type or print legibly. Items 1, 3, 5, 9, 11c, 11e, 11f, 11g, 11i, 12 and 13 are self-explanatory; specific instructions for other items are as follows:

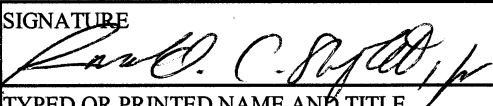
Item	Entry	Item	Entry
1	Indicate whether request is prepared on cash or accrued expenditure basis. All requests for advances shall be prepared on a cash basis. Enter the Federal grant number, or other identifying number assigned by the Federal sponsoring agency. If the advance or reimbursement is for more than one grant or other agreement, insert N/A; then, show the aggregate amounts. On a separate sheet, list each grant or agreement number and the Federal share of outlays made against the grant or agreement. Enter the employer identification number assigned by the U.S. Internal Revenue Service, or the FICE (institution) code if requested by the Federal agency. This space is reserved for an account number or other identifying number that may be assigned by the recipient. Enter the month, day, and year for the beginning and ending of the period covered in this request. If the request is for an advance or for both an advanced and reimbursement, show the period that the advance will cover. If the request is for reimbursement, show the period for which the reimbursement covers.		programs, functions, or activities should be shown in the "total" column on the first page.
c	The Federal sponsoring agencies have the option of requiring recipients to complete items 11 or 12, but not both. Item 12 should be used when only a minimum amount of information is needed to make an advance and outlay information contained in item 11 can be obtained in a timely manner from other reports. The purpose of the vertical columns (a), (b), and (c), is to provide space for separate cost breakdowns when a project has been planned and budgeted by program, function, or activity. If additional columns are needed, use as many additional forms as needed and indicate page number in space provided in upper right; however, the summary totals of all	11a	Enter in "as of date," the month, day and year of the ending of the accounting period to which this amount applies. Enter program outlays to date (net of refunds, rebates, and discounts), in the appropriate columns. For requests prepared on a cash basis, outlays are the sum of actual cash disbursements for goods and services, the amount of indirect expenses charged, the value of in-kind contributions applied, and the amount of cash advances and payments made to subcontractors and subrecipients. For requests prepared on an accrued expenditure basis, outlays are the sum of the actual cash disbursements, the amount of indirect expenses incurred, and the net increase (or decrease) in the amounts owed by the recipient for goods and other property received and for services performed by employees, contracts, subgrantees and other payees.
		11b	Enter the cumulative cash income received to date, if requests are prepared on a cash basis. For requests prepared on an accrued expenditure basis, enter the cumulative income earned to date. Under either basis, enter only the amount applicable to program income that was required to be used for the project or program by the terms of the grant or other agreement.
		11d	Only when making request for advance payments, enter the total estimated amount of cash outlays that will be made during the period covered by the advance.
		13	Complete the certification before submitting this request.

FINANCIAL STATUS REPORT

(Long Form)

(Follow instructions on the back)

1. Federal Agency and Organizational Element to Which Report is Submitted DE=FG36-01GO11053		2. Federal Grant or Other Identifying Number Assigned By Federal Agency U.S. Department of Energy		OMB Approval No. 0348-0039	Page of 1 1 pages
3. Recipient Organization (Name and complete address, including ZIP code) International Utility Efficiency Partnerships, Inc., 2000 L Street NW, Suite 805, Washington, DC 20036					
4. Employer Identification Number 52-1985160		5. Recipient Account Number or Identifying Number IN:054000030 AN:17173637		6. Final Report <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	7. Basis <input type="checkbox"/> Cash <input checked="" type="checkbox"/> Accrual
8. Funding/Grant Period (See instructions) From: (Month, Day, Year) 1/1/2001		To: (Month, Day, Year) 12/31/2002		9. Period Covered by this Report From: (Month, Day, Year) 1/1/2001 To: (Month, Day, Year) 12/31/2002	
10. Transactions:		I Previously Reported	II This Period	III Cumulative	
a. Total outlays			3,425,119.00	3,425,119.00	
b. Refunds, rebates, etc.				0.00	
c. Program income used in accordance with the deduction alternative				0.00	
d. Net outlays (Line a, less the sum of lines b and c)		0.00	3,425,119.00	3,425,119.00	
Recipient's share of net outlays, consisting of:				0.00	
e. Third party (in-kind) contributions				0.00	
f. Other Federal awards authorized to be used to match this award				0.00	
g. Program income used in accordance with the matching or cost sharing alternative				0.00	
h. All other recipient outlays not shown on lines e, f or g			1,485,804.00	1,485,804.00	
i. Total recipient share of net outlays (Sum of lines e, f, g and h)		0.00	1,485,804.00	1,485,804.00	
j. Federal share of net outlays (line d less line i)		0.00	1,939,315.00	1,939,315.00	
k. Total unliquidated obligations					
l. Recipient's share of unliquidated obligations					
m. Federal share of unliquidated obligations					
n. Total Federal share (sum of lines j and m)				1,939,315.00	
o. Total Federal funds authorized for this funding period				1,972,000.00	
p. Unobligated balance of Federal funds (Line o minus line n)				32,685.00	
Program income, consisting of:					
q. Disbursed program income shown on lines c and/or g above					
r. Disbursed program income using the addition alternative					
s. Undisbursed program income					
t. Total program income realized (Sum of lines q, r and s)				0.00	
11. Indirect Expense		a. Type of Rate (Place "X" in appropriate box) <input checked="" type="checkbox"/> Provisional <input type="checkbox"/> Predetermined <input type="checkbox"/> Final <input type="checkbox"/> Fixed			
		b. Rate 33.34%	c. Base \$1,256,719	d. Total Amount 974,246.00	e. Federal Share 755,235.00
12. Remarks: Attach any explanations deemed necessary or information required by Federal sponsoring agency in compliance with governing legislation.					
13. Certification: I certify to the best of my knowledge and belief that this report is correct and complete and that all outlays and unliquidated obligations are for the purposes set forth in the award documents.					
Typed or Printed Name and Title Ronald C. Shiflett, Jr. / Executive Director				Telephone (Area code, number and extension) 202-293-7992	
Signature of Authorized Certifying Official 				Date Report Submitted March 18, 2004	

FEDERAL CASH TRANSACTIONS REPORT <i>(See instructions on the back. If report is for more than one grant or assistance agreement, attach completed Standard Form 272A.)</i>		OMB APPROVAL NO. 0348-0003 1. Federal sponsoring agency and organizational element to which this report is submitted. U.S. Department of Energy					
2. RECIPIENT ORGANIZATION <i>Name:</i> International Utility Efficiency Partnerships, Inc. <i>Number and Street:</i> 2000 L Street, NW, Suite 805 <i>City, State and Zip Code:</i> Washington, DC 20036		4. Federal grant or other identification number: DE-FG36-01GO11053 6. Letter of credit number Nine (Note: invoice #4 was voided)	5. Recipient's account number or identifying number AN:17173637 7. Last payment voucher number GO11053 – Invoice 9 <div style="text-align: center;"><i>Give total number for this period</i></div> 8. Payment Vouchers credited to your account 17-173-637 9. Treasury checks received (whether or not deposited)				
3. FEDERAL EMPLOYER IDENTIFICATION NO. 52-1985160		10. PERIOD COVERED BY THIS REPORT <table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none;">FROM (month, day, year) January 1, 2001</td> <td style="width: 50%; border: none;">TO (month, day, year) December 31, 2002</td> </tr> </table>		FROM (month, day, year) January 1, 2001	TO (month, day, year) December 31, 2002		
FROM (month, day, year) January 1, 2001	TO (month, day, year) December 31, 2002						
11. STATUS OF FEDERAL CASH <i>(See specific instructions on the back)</i>	a. Cash on hand beginning of reporting period		\$0.00				
	b. Letter of credit withdrawals		1,939,315				
	c. Treasury check payments		0.00				
	d. Total receipts (Sum of lines b and c)		1,939,315				
	e. Total cash available (Sum of lines a and d)		1,939,315				
	f. Gross disbursements		3,425,119				
	g. Federal share of program income		1,939,315				
	h. Net disbursements (Line f minus line g)		1,485,804				
	i. Adjustments of prior periods		0.00				
	j. Cash on hand end of period		\$0.00				
12. THE AMOUNT SHOWN ON LINE 11j, ABOVE, REPRESENTS CASH REQUIREMENTS FOR THE ENSUING Days		13. OTHER INFORMATION <table style="width: 100%; border: none;"> <tr> <td style="width: 70%; border: none;">a. Interest income</td> <td style="width: 30%; border: none; text-align: right;">\$0.00</td> </tr> <tr> <td style="border: none;">b. Advances to subgrantees or subcontractors</td> <td style="border: none; text-align: right;">\$0.00</td> </tr> </table>		a. Interest income	\$0.00	b. Advances to subgrantees or subcontractors	\$0.00
a. Interest income	\$0.00						
b. Advances to subgrantees or subcontractors	\$0.00						
14. REMARKS <i>(Attach additional sheets of plain paper, if more space is required)</i>							
15. CERTIFICATION							
I certify to the best of my knowledge and belief that this report is true in all respects and that all disbursements have been made for the purpose and conditions of the grant or agreement.	AUTHORIZED CERTIFYING OFFICIAL	SIGNATURE  TYPED OR PRINTED NAME AND TITLE Ronald C. Shiflett, Jr. Executive Director	DATE REPORT SUBMITTED March 16, 2004 TELEPHONE (Area Code, Number, Extension) (202)293-7992				
	THIS SPACE FOR AGENCY USE						