Access to sustainable energy for Latin America and the Caribbean

OUTPUTS TO 2015

September 2015
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1. INTRODUCTION

The Latin American Organization for Energy Development (OLADE) was created in 1973 to meet the challenges of rapid economic growth in Latin America and the Caribbean (LAC) countries and the economic crisis in the highly developed countries, at a time when natural resources, especially energy, acquired strategic value for economic development and contributed to significantly redesign the geopolitical panorama and the map of international capital flows. In this vein, a highlight of the international scenario was the steep rise in oil prices, which created contradictory economic conditions in Latin America and the Caribbean: favorable for the few oil-exporting countries and unfavorable for the oil-importing countries. Thus, the scope and repercussions of information sharing and integration of the natural resource in general, and of energy in particular, were studied by the LAC countries, whose energy authorities had identified isolated vulnerabilities in sector policies with a purely domestic focus. Given the need to address the crisis appropriately, they began an intense process of political mobilization that culminated on November 2, 1973, with the formalization of the Lima Convention,

\(^1\) According to ECLAC data, 1968 to 1973 was one of the periods with the fastest-growing Gross National Product in the region over the past 60 years.
the instrument that created OLÁDE. To date, the following 27 countries of Latin America and the Caribbean have ratified the Lima Convention:

South America: Argentina, Brazil, Chile, Paraguay, Uruguay, Bolivia, Colombia, Ecuador, Peru and Venezuela.

Caribbean: Barbados, Cuba, Granada, Guyana, Haiti, Jamaica, Trinidad and Tobago, Dominican Republic, and Suriname.

Central America and Mexico: Belize, Costa Rica, El Salvador, Guatemala, Honduras, Nicaragua, Panama, and Mexico.

Participating country: Algeria.

Pursuant to the Lima Convention, OLÁDE is the political and technical support organization by which the member countries make joint efforts towards regional and sub-regional energy integration. Its mission is to “contribute to the integration, sustainable development and energy security of the region, by assessing and promoting cooperation and coordination among its member countries.”

For its operations, the organization receives financial resources from its 27 member countries and the participating country, which enable it to fund its functional programs and contribute to the implementation of regional and sub-regional cooperation and technical assistance projects among its member countries and participating country, according to an Annual Work Plan approved by the Energy Ministries Meeting. It should be mentioned that these projects are financed primarily with external resources provided by international cooperation agencies under specific agreements.

In this regard, Canadian cooperation has played a significant role in the implementation of several OLÁDE projects, starting in 1996 with a cooperation agreement funded by the Canadian International Development Agency (CIDA), to implement a Master’s Degree program on ‘Energy and the Environment’; deliver Environmental Training workshops; compilation of Environmental Laws in Latin America and the Caribbean, and the execution of the Sustainable Energy Project, initiatives which were completed in December 2011.

In March 2012, it was signed a new cooperation agreement between OLÁDE and the Canadian Government, starting a new initiative which will end in December 2017. To undertake this Project, the Canadian cooperation funds are managed by OLÁDE’s Permanent Secretariat.
2. ACRONYMS AND ABBREVIATIONS

<table>
<thead>
<tr>
<th>Acronym</th>
<th>Description</th>
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<tbody>
<tr>
<td>AENOR</td>
<td>Spanish Association for Standardization and Certification</td>
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<td>ARPEL</td>
<td>Regional Association of Oil, Gas and Biofuels Sector Companies in Latin America and the Caribbean</td>
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<td>CAF</td>
<td>South American Development Bank</td>
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<td>CARICOM</td>
<td>Caribbean Community Secretariat</td>
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<td>CCHAC</td>
<td>“Comité de Cooperación de Hidrocarburos de América Central”</td>
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<td>CEAC</td>
<td>Central American Electrify Council</td>
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<td>CEIS</td>
<td>Caribbean Energy Information System</td>
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<td>CELAC</td>
<td>“Comunidad de Estados de Latinoamérica y el Caribe”</td>
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<td>CINER</td>
<td>Renewable Energy Information Center</td>
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<td>COICA</td>
<td>Coordinator of the Indigenous Amazon River Basin</td>
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<td>CYTED</td>
<td>Ibero-American Program for Science, Technology and Development</td>
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<td>DNV</td>
<td>Det Norske Veritas</td>
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<td>ETITI</td>
<td>Extractive Industry Transparency Initiative</td>
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<td>CEPAL / ECLAC</td>
<td>Economic Commission for Latin America and the Caribbean</td>
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<td>FAO</td>
<td>Food and Agriculture Organization of the United Nations</td>
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<td>FIDE</td>
<td>“Fideicomiso para el Ahorro de Energía Eléctrica”</td>
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<td>GIZ</td>
<td>German Technical Cooperation Agency</td>
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<tr>
<td>BID / IADB</td>
<td>Inter-American Development Bank</td>
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<td>IETA</td>
<td>International Emissions Trade Association</td>
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<td>IIICA</td>
<td>Inter-American Institute for Agriculture Cooperation</td>
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<td>INCAE</td>
<td>Central American Business School</td>
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<tr>
<td>OAS / OEA</td>
<td>Organization of American States</td>
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<td>PM</td>
<td>Mesoamerican Project</td>
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<td>REMIB</td>
<td>The World Information Network on Biodiversity</td>
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<td>SE4ALL</td>
<td>Sustainable Energy for All</td>
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<td>SICA</td>
<td>“Sistema de la Integración Centroamericana”</td>
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<td>SIECA</td>
<td>“Secretaría de Integración Económica Centroamericana”</td>
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<td>UICN</td>
<td>International Union for Conservation of Nature</td>
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<td>UDP</td>
<td>UNEP DTU Partnership (Former UNEP RISO Centre)</td>
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<td>UNASUR</td>
<td>Union of South American Nations</td>
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<td>PNUD / UNDP</td>
<td>United Nations Development Program</td>
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<td>PNUMA / UNEP-ROLAC</td>
<td>United Nations Program for Environment - Regional Office for LAC</td>
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<td>UNFCCC</td>
<td>United Nations Framework Convention for Climate Change</td>
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<td>UNIDO</td>
<td>United Nations Industrial Development Organization</td>
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<td>WEDO</td>
<td>Women’s Environmental and Development Organization</td>
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<td>BM / WB</td>
<td>World Bank</td>
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<td>4E</td>
<td>Renewables Energy and Energy Efficiency Program for Central America</td>
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3. PROJECT CHARACTERIZATION

The project entitled “Access to Sustainable Energy in Latin America and the Caribbean” started in June 2012 with the preparation of a ‘Project Implementation Plan’. At the beginning of each fiscal year, an Annual Work Plan is prepared and approved by the Project’s Steering Committee, which includes officials from OLADE and the Government of Canada. This report will present the results obtained by the activities from April to September 2015.

3.1 PROJECT OBJECTIVE:

“Greater access to sustainable, affordable energy in the LAC region to stimulate economic growth and reduce poverty levels.”

3.2 COOPERATION BENEFICIARY COUNTRIES:

OLADE member countries in general and the following countries in particular: Belize, Bolivia, Colombia, Cuba, Dominican Republic, Grenada, Guatemala, Guyana, Haiti, Honduras, Jamaica, Nicaragua, Peru, and Suriname

3.3 THE PROJECT TEAM:

• Byron Chiquinga, Manager
• Nasser Akhtar, Canadian Technical Advisor
• Sissy Larrea, Gender Equality Advisor
• Daniel Orbe, Management Technical Assistant

3.4 MONITORING AND FOLLOW-UP:

• The Directive Committee, made up of OLADE authorities and the Canadian Cooperation.

This Committee has held four meetings in Quito, the first in May 2012, the second in April 2013, the third via teleconference in June 2014 and the fourth in April 2015.

• The Internal Project Coordination Unit, consisting of OLADE’s Executive Secretary, Director of Integration, Director of Studies & Projects as Cluster Managers (by thematic area), the Administration and Finance Manager, Project Manager, Canadian Technical Advisor, and Gender Equality Adviser.

• This Unit has had seven meetings: April 2012, June 2012, July 2012, November 2012, January 2013, April 2014 and May 2015. These meetings were intended to define the functions, roles and responsibilities of the unit, establish the procedure for hiring consultants and review the initial reports of the project, prior to the submission to the Canadian Cooperation and review progress and the project’s budget execution.
3.5 PROJECT STRUCTURE:

The Project contemplates two clusters or thematic areas that include 22 sub-projects, as listed below:

**Cluster 1: Energy Planning, Integration and Governance**

Sub-projects:

1. Development of Energy Planning Capacity
2. Strengthening Sub-Regional Energy Integration and Improving Access to Energy Markets
   - **Module 1:** Sub-regional Energy Integration
   - **Module 2:** Improving Access to Energy Markets
   - **Module 3:** Good Offices Facilitator
3. Energy Governance: Mechanisms to Help Member Countries Develop Regulations and Policies
   - **Module 1:** Hydrocarbons
   - **Module 2:** Electricity
4. Improving Access to Electricity on the Grid
   - **Module 1:** Market Models, Economic Regulation and Tariffs
   - **Module 2:** Latin American and Caribbean Generation Assessment
   - **Module 3:** Assessing Options for Investing in Power Generation
5. Programmatic Clean Development Mechanism (CDM) and Nationally Appropriate Mitigation Actions (NAMAs)
6. Climate Change Mitigation and Adaptation in the Energy Sector
7. Virtual Training Program (CAPEV) and Technical Networks
   - **Module 1:** CAPEV Program
   - **Module 2:** Technical Networks
8. Executive Development Programs on Energy Planning

**Cluster 2: Social and Environmental Aspects**

Sub-projects:

1. Promoting Corporate Social Responsibility (CSR)
   - **Module 1:** Technical Support to Central America
   - **Module 2:** Regional Dissemination of CSR Principles
   - **Module 3:** CSR Check List (Report Card)
   - **Module 4:** Promotion of Extractive Industries Transparency Initiative (EITI)
   - **Module 5:** Support to the Population, Energy and Environmental Program (EAP)
2. CSR in Rural Energy Systems for Isolated Areas
3. Developing Gender Equality in Energy Decision-Making and Energy Access
4. TECHNICAL PROGRESS MADE UNDER EACH SUB-PROJECT

The information presented below comes from the project document approved by the Canadian Cooperation and implementation of the various activities planned for fiscal year 2015-2016 with a cut as of the September 30, 2015.

SUB-PROJECT WBS # 1110:
Development of Energy Planning Capacity

Objective:
The objective of this sub-project is to develop an Energy Planning Manual to strengthen Latin American and Caribbean Energy Ministries' capacity to develop and implement sustainable Energy Plans.

Specific objectives for 2015-2016:
• To complete the elaboration of the Energy Plans in Bolivia and Honduras.
• Develop a Work plan for the application of the Manual in one additional country: Nicaragua.
• To deliver training in the use of the Manual by the Ministry Officials of Nicaragua.
• To support Nicaragua in the application of the Manual to develop National Energy Plans.

Outcomes to Date:
• National Energy Plan of Bolivia reviewed by the Ministry of Hydrocarbons and Energy of the country and presented to major stakeholders in the energy sector.
• National Energy Plan of Honduras reviewed by the Ministry of Natural
Resources, Environment and Mining of that country and presented to major stakeholders in the energy sector.

- Work plan for the implementation of the Manual in Nicaragua is available.
- As part of the implementation of the Manual in Nicaragua the following activity was carried out as part of the implementation of the Manual: preparation of the Energy Diagnosis based on data and information gathered from the main stakeholders of the National Energy Sector.
- **OLADE’s** technical team officials were trained on energy planning, as well as officials from the Ministry of Hydrocarbons of Ecuador. A total of 18 staff members (6 women) were trained.

**Objective:**

The objective of this sub-project is to provide specific technical assistance to the smaller countries in the LAC Region with regard to appropriate energy policies and regulations, supported by energy consumption surveys in those countries, and adapted to national objectives and needs.

**Specific objectives for 2015-2016:**

- Support to Guatemala in the natural gas interconnection between Guatemala and Mexico as well as update of the regulatory framework for fuels quality (CCHAC countries).
- Training provided by Colombia on oil contracting to the Honduran Management Contract Committee with BG Group, an international oil exploration company.
- Development of a proposed amendment to the Hydrocarbons Law and review of environmental law in the hydrocarbon sector of Honduras.
- Provide technical assistance to Belize in the reviewing and analysis of its technical, environmental, fiscal and tax regulatory framework.
- Support Dominican Republic through the preparation of a proposal for a regulatory framework of its oil...
upstream and downstream phases, in the analysis of alternatives to promote natural gas use, in the definition of the feasibility of the up-scaling of the capacity of its oil refinery, and in the training activities of its technical staff.

- Deliver TA to Bolivia for the preparation of a draft regulation bill for Hidrocarbons National Agency on the downstream sector with the current framework of de Hidrocarbons Law. Additionally, a diagnosis should be performed on the current technical and economic regulations aimed to downstream sector.

Outcomes to Date:

- Training to Guatemala’s government officials on Negotiating Natural Gas Contracts; 15 officers (5 women) were trained.
- Collected technical information in the SIECA and the Pro-tempore of CCHAC on major development activities on harmonization of technical regulations for liquid fuels.
- Training in oil procurement provided to officials from Honduras. It was conducted by the National Hydrocarbon Agency of Colombia. A total of 5 staff members (1 woman) were trained.
- Developed the diagnostics of the modifications to the Hydrocarbons Law for the Ministry of Energy, Natural Resources, Environment and Mining of Honduras.
- Developed a proposal for new regulations and amendments to existing legislation for the hydrocarbon sector of Belize.
- Developed the diagnosis and proposal on technical regulatory system in production, installation and operation of natural gas infrastructures, in order to establish best practices for permits, security, accreditation standards, and quality in the areas of installation and future operation of natural gas infrastructure in the Dominican Republic.
- Delivered the training for the technicians in the Dominican Republic on Exploration and Economic Evaluation Technologies of Petroleum Investment Projects. 25 officials (16 women) were trained.
- Started the preparation of a proposal for Dominican Republic on the promotion and expansion of the use of Natural Gas for Vehicles and identification of best practices in the promotion of GN (industrial, commercial).
SUB-PROJECT WBS # 1120:
Energy Governance: Technical assistance for Small Countries to Develop Policies and Regulations.

MODULE 2:
Power Industry

Objective:
The objective of this sub-project is to provide technical assistance for the development of policies with their respective legal framework and regulatory mechanisms for the electric energy sector in selected countries.

Specific objectives for 2015-2016:
• Support to Haiti in the dissemination of the regulatory analysis elaborated by the Project through a national workshop.
• Support to Bolivia in the analysis of its power sector regarding the regulatory framework for electric power interconnection with other countries and to set up the regulation for electricity exportation to other countries.

Outcomes to Date:
• The study “Comprehensive Planning for Electric Power Supply of Haiti” completed and the National Workshop for the presentation of its results delivered, with the participation of 50 officials from Haiti (10 women).

SUB-PROJECT WBS # 1130:
Baseline study and analyses on women’s participations in the energy sector and dissemination of Gender Equality principles in Energy policies.

Objective:
The objective of this sub-project is to incorporate, publish and apply the principles of Gender Equality in the overall activities of OLADE and its member countries as they develop energy policies and implement different energy sector initiatives.

Specific objectives for 2015-2016:
• Conducting a sub-regional Dialogue in Gender and Energy in the Caribbean English speaking countries in order to train and develop national plans.
• To undertake case studies about institutional energy-gender analysis in Jamaica and Cuba.

Outcomes to Date:
• The Cuban case study about the institutional gender analysis started the coordination phase with Ministry of Energy and Mines and it will be completed in January 2016.
• The Jamaican case study on institutional gender analysis started its coordination with Ministry of Science, Transportation, Energy and Mines, and it will be completed in March 2016.
SUB-PROJECT WBS # 1140:
Technical assistance (TA) and training delivered to promote Gender Equality in energy policies, regulation and Guidelines.

Objective:
The objective of this activity is to provide technical assistance and train the government officials of all OLADE member countries to promote Gender Equality in energy policies, regulations and guidelines.

Specific objectives for 2015-2016:

- Support the incorporation of Gender in the energy sector through develops of technical assistance and training according to the Sub-regional and National Plans in LAC countries.
- Strengthen the knowledge about gender and energy in the LAC countries through using the Guide on Gender Equality and Energy developed by OLADE UICN and ENERGIA.

Outcomes to Date:

- SENER’s Gender Unit Plan reviewed in Mexico, the incorporation of elements of interagency coordination was suggested.
- An agreement with the National Bureau of Statistics (INEGI) achieved in Mexico to identify gender and energy indicators and develop a case study that will define a methodology to be replicated in other member countries.
- The dissemination and publication of the results of the implementation of indicators a agreed with ECLAC’s Division of Women.
- The English version of the Guide on Gender and Power is available for trainers, Project, and Public Policy Managers.
- A CAPEV training course delivered for using the Guide on Gender and Energy, with the participation of 241 (128 women) energy officials from 18 member countries.
- A Regional Specialist Forum on Gender and Energy delivered in Guatemala to present and exchange best practices, funded by GIZ UNWOMEN; 47 participants (37 women) attended the event LAC countries (this output was not planned in the AWP).
The link to query the Guide on Gender and Energy is:  
http://tinyurl.com/nbhuvz5

Sub-project WBS # 1210: Strengthening Sub-Regional Energy Integration.

Objective:
The objective of this sub-project is to contribute to sustainable energy development in Latin America and the Caribbean through support for regional energy integration and the strengthening of the technical and institutional capabilities of OLADE Member States.

Specific objectives for 2015-2016:

• Support integration initiatives in LAC countries considering Energy Agendas defined and approved by the countries of Central America, South America and the Caribbean
• Strengthen the Energy Agenda for South America in coordination with counties and agencies involved.
• Providing support for annual coordination meetings in order to follow up the implementation of projects according to the Energy Agendas, together with the countries and Agencies involved.
• Mapping of gas and electricity interconnection by sub-region, locating opportunities and needs, considering the energy expansion plans and legal frameworks.

Outcomes to Date:
• Delivered Sub-regional coordination meetings and monitoring of the Sub-regional Energy Agenda
(Guatemala, 21-22 April 2015) in Central America in coordination with SICA and in South America (Ecuador, May 18-20 2015) in coordination with UNASUR.

• Final version of the energy agenda in South America completed with the approval of UNASUR.

• Activities completed in Central America: a) Agreement signed with FIDE in Mexico to develop the Energy Efficiency Fund; b) Adoption of the profile of the Fund by the countries of the sub-region; and, c) tour on the countries of the sub-region to establish the fund.

• Activities completed in Caribbean: a) training phase in the creation and management of energy statistics in the CARICOM countries; b) additional funding materialized by GIZ, in response to joint management of OLADE and CARICOM.

• Activities completed in South America: Available database on projects of electric and gas interconnections. Joint initiative with UNASUR.

• Completed energy integration maps: 3 sub-regional and one regional, all in coordination with UNASUR.

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**Sub-project WBS # 1230:**

**Goodwill Office Facilitator Mechanism.**

**Objective:**

The objective of this sub-project is to promote OLADE’s role as a Goodwill Office Facilitator and its mechanism among the Member States as a tool for facilitating dialogue relating to the prevention of interregional energy disputes.

**Specific objectives for 2015-2016:**

• Promote OLADE’s role as Goodwill Office Facilitator and its mechanism among the Member States.

**Outcomes to Date:**

• The Good Offices Mechanism promoted in all OLADE’s regional events.
Sub-project WBS # 1240: Electric Tariffs Analysis

Objective:
The objective of this sub-project is to promote OLADE’s role as a Goodwill Office Facilitator and its mechanism among the Member States as a tool for facilitating dialogue relating to the prevention of interregional energy disputes.

Specific objectives for 2015-2016:
Perform a comparative analysis between the different electrical energy market models, regulation methods and rate frameworks present in the studied countries: Colombia, Dominican Republic, Haiti, Honduras, Nicaragua and Peru.

Outcomes to Date:
- Document available of the Comparative study of electricity market models, institutional structure, methods of regulation and tariff structures in LAC.
- Webinar delivered to present the study among the members of the OLADE’s electricity network.
- The link to see the comparative study is: http://tinyurl.com/ongby8c

Sub-project WBS # 1250: Energy Investment Needs and Technical and Economic Alternatives for Power Supply in the Electricity Sector

MODULO 2: Latin America and Caribbean Generation Assessment

Objective:
The objective of this sub-project is to provide a proposal to six selected LAC countries to gradually resolve various aspects of institutional, operational, and regulatory matters in the power sector, analyzing the electricity tariff and improving the efficiency of power sector infrastructure.

Specific objectives for 2015-2016:
- Perform a detailed characterization of the existing generation power plants (power generation capacity) in Belize and Honduras.
- Evaluate the current status of the generator park (total number of electricity power generation units/systems, including thermal, wind, solar, hydro, etc.) in Belize and Honduras, including the type of technologies that are being used to generate electricity.
- Identify new technologies and projects to be launched in Belize and Honduras, taking into accounts the following aspects: availability of the primary resource, availability of the electrical grid, and technical and financial aspects.
• Identify providers of these, which will allow for fundamental changes to the generator parks of Belize and Honduras.

Outcomes to Date:
• Final Report about the characterization of the situation of conventional and distributed generation in Honduras, delivered for reviewed by the Government authorities.
• The analysis of the electricity generation sector in Belize is under the coordination phase, the study will be developed in November 2015, at the request of the country.

Sub-project WBS # 1250:
Energy Investment Needs and Technical and Economic Alternatives for Power Supply in the Electricity Sector

MODULO 3:
Evaluation of Investment Options

Objective:
The objective of this sub-project is to provide proposals to six selected LAC countries to gradually resolve various aspects of institutional, operational, and regulatory matters in the power sector, analyzing and developing a plan for each country for investment in generation, identifying possible financing structures.

Specific objectives for 2015-2016:
• Implement an expansion or replacement plan for electrical generation in Belize, Honduras, Haiti, Dominican Republic, Guatemala and Nicaragua, based on technical and financial analyses.
• Develop a schedule with values for the investments in generation or grid reinforcement necessary to fulfill the generation expansion plans for Belize, Honduras, Haiti, Dominican Republic, Guatemala and Nicaragua.
• Perform the economic-financial evaluation for the generation Expansion Plans, and present investment options for the above-mentioned countries.
Outcomes to Date:

- The *Haiti* case study was completed and presented at a national workshop held on June, 2015.
- The final report of the study held in *Honduras* is completed.
- Analysis of the expansion of power generation in the *Dominican Republic* is completed.
- The analysis of the expansion of power generation in *Guatemala* is completed.
- The study in *Belize* is in the coordination phase and will be implemented in November 2015, according to *Belize’s* request.

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**Sub-project WBS # 1310: CAPEV (On-Line Energy Training) Program**

**Objective:**

The objective of this sub-project is to train officials, technicians and specialists from the Ministries or Secretariats of Energy, public and private institutions of the sector, as well as private consultants from OLADE member countries, on topics of interest identified through surveys taken of the participants during previous courses, or through consultations with OLADE national coordinators, providing continuity and support to the CAPEV training program and sustainability to the knowledge gained from previous programs.

**Specific objectives for 2015-2016:**

- Deliver 20 new courses in the following areas: renewable energy; power; energy efficiency; energy, environment and society; policy and regulation; hydrocarbons; and, energy planning.
- Trained officials: 5,000 participants.
- Complete the development of the Optimized system for program monitoring: develop an adequate tool for recording, evaluating and following up on the Courses.

**Outcomes to Date:**

- Monitoring system for optimizing the CAPEV courses delivered and included within the training platform.
- 10 new courses delivered with 2,845 participants. 888 of them were women (31.2%).
Sub-project WBS # 1330: Technical Experts Networks

Objective:
The objective of this activity is to foster the training and consolidation of networks of experts from the region in the fields of climate change, renewable energy, hydrocarbons and energy integration, by using virtual technological platforms (referred to as Knowledge Platforms) as a means by which to review, discuss and exchange experiences and best practices among experts.

Specific objectives for 2015-2016:

• Consolidate the regional knowledge platform and the technical networks of experts by maintaining the tool for the information, redaction and publication of articles related to the topic of each network, formulating discussion topics through forums created for this purpose, making documents available that are related to the topic of each network.

• Research and share information related to the specific topic of each network through the platform, and promote the Network.

• Ensure sustainability of the knowledge platform and network of experts.

Outcomes to Date:

• 7 technical networks in operation with 1,414 registered participants.

• 379 news published on the network and 84 newsletters sent to participants.

• 19 Webinars delivered on the following topics: hydrocarbons (3), energy integration (3), energy and access (3) gender and energy (2) renewable energy (2), climate change (2) and electricity (4). Participants in all of the above events total: 802.

• 7 Technical documents prepared and disseminated in networks about the following topics: hydrocarbons (1) energy integration (1), energy and access (1) renewable energy (3) and electricity (1).

• A discussion forum for energy and access network activated.
Objective:

The objective of this sub-project is to support training of practitioners in Latin America and Caribbean, especially those involved with the formulation and implementation of energy policies and social inclusion, and the study of issues related to such policies. The diploma program will include all social aspects of energy policies and energy development in the LAC Region.

Specific objectives for 2015-2016:

• Establish specific agreement with the University of Technology of Jamaica for developing of a Third Certificate Program addressed to Caribbean sub-region.

• Promotion of the certificate program in the countries using the CAPEV Coordinators in OLADÉ’s Caribbean Countries and the Caribbean University Facilities.

Outcomes to Date:

• A specific agreement between OLADÉ and the University of Technology of Jamaica signed, to train officials from the Ministries of Energy in the Caribbean countries, incorporating aspects of social responsibility programs and policies for the energy sector.

• Technical agenda (content, schedules, teachers, financing and timetables) delivered for the third diploma program and logistical details with the University of Technology of Jamaica.

• The course is under development in the Caribbean and it will take place in Jamaica on October and November 2015. It expected to have 15 participants.
Objective:
The objective of this sub-project is to support the training of practitioners in LAC region especially interested in the planning, formulation, and implementation of energy policies, through development and delivery of three EDPEP Programs, one in each OLADE sub-regions. Topics include: energy sector in the LAC, energy integration, infrastructure and services related to energy production, transmission and distribution, forecasting energy needs, energy pricing, and global trends in renewable energy and energy efficiency.

Specific objectives for 2015-2016:
• Develop the 3rd EDPEP Program addressed to participants from South American countries considering 10 virtual courses and one in-presence module to be developed in Asuncion, Paraguay.

Outcomes to Date:
• The Third Executive Development Program in Energy Planning for the technical staff in the South American countries, delivered, including a face-to-face module held in Asuncion, Paraguay.
• 319 professionals from 17 countries in the Region (95 women) were trained, 29 of them participated in the face-to-face Module and 10 of them were self-financed.
• The participants’ satisfaction indicator was 90.73%.
Objective:
The objective of this sub-project is to strengthen the existing technical capabilities in Latin American and Caribbean (LAC) countries for the development of “Activities Programs” within the Clean Development Mechanism (CDM) and National Appropriate Mitigation Actions (NAMAs), in order to contribute to the reduction of Greenhouse Gas Emissions within the activities of the region’s Energy Agenda (interconnected or decentralized renewable energy, energy efficiency, regional interconnection, etc.).

Specific objectives for 2015-2016:
• Support LAC countries in the development of project profiles and detailed projects relating to the Programmatic CDM and NAMAs.
• Strengthen countries’ knowledge on the existing potential for applying and taking advantage of the CDM and NAMAs initiatives and disseminate lessons learned.

Outcomes to Date:
• NAMAs studies developed in Cuba (pig manure treatment); Jamaica (increase of renewable energy); and Colombia (Promotion of renewable energy in not interconnected border areas).
• National workshops for the presentation of the results of the studies delivered in Cuba and Jamaica.
• The Project supported the IX Latin American and Caribbean Forum Carbon, held in Santiago, Chile, to exchange lessons learned on NAMAs in the region, along with other co-organizers as the IDB, WB, CAF, IETA, DTU UNEP, UNDP-ROLAC, UNFCCC, ECLAC and the Ministry of Environment of Chile, around 400 participants attended the event from all regions of the world.
• The e-learning NAMAs course in the Spanish version completed and is available on OLADE’s website of (as well as the English version). UNEP DTU and UNEP-ROLAC were co-sponsors.
• An additional NAMAs study is in progress in Guatemala on energy efficiency in refrigeration in the residential sector.
• A NAMA’s study in Honduras on Eco-cook stoves is being coordinated with the IDB at the request of SERNA.
• The technical document: Lessons learned in the development of NAMAs in Latin America and the Caribbean is completed and is available in the following link: http://tinyurl.com/p2ds2ap
**Objective:**

The objective of this sub-project is to provide technical assistance to the OLADE member countries regarding aspects related to mitigation and adaptation to Climate Change (CC) in the energy sector.

**Specific objectives for 2015-2016:**

- Identify requirements in the OLADE’s member countries to strengthen their capabilities to manage Climate Change (CC) in the energy sector, and support to the interested countries in the implementation of their priority requested activities.
- Prepare and deliver a technical workshop to review the proposal of OLADE about policy guidelines on Climate Change in the energy sector.
- Evaluate the impact of CC on the energy infrastructure of the Central American countries.

**Outcomes to Date:**

- Delivered the technical assistance to **Nicaragua** (Ministry of Energy and Mines, the Nicaraguan Electricity Company and Ministry of Environment and Natural Resources) to prepare the national strategy for adaptation to climate change in the hydropower sector. Final report reviewed and approved by the authorities of **Nicaragua**.
- Technical assistance to **Colombia** under development on fugitive emissions from coal in electricity generation company: energy audit for the TERMOGUAJIRA plant was prepared.
- Specialist Workshop on Climate Change delivered held in Santo Domingo, **Dominican Republic**, to discuss the proposed OLADE’s Guidelines on climate change policy in the energy sector; 28 specialists (9 women) from cooperative entities participated (ECLAC, UNDP, UNEP, UNFCCC, IISD, UNIDO, GIZ), technical entities of ALC (FONAM, AENOR, Andean Parliament) and OLADE Member Countries (Bolivia, Costa Rica, Cuba, Honduras, Nicaragua and Dominican Republic).
- The proposed guidelines on climate change policy in the energy sector in Latin America and the Caribbean is completed.
• The preliminary report on the study of the impact of climate change in the power sector infrastructure in the Central American countries is completed. Workshop for presentation of the study results, event scheduled is being organized jointly with ECLAC-Mexico to be held on November 17, 2015 in San Jose, Costa Rica.

• The links for consultation of the final reports from Colombia and Nicaragua are:
  http://tinyurl.com/pqfs29w
  http://tinyurl.com/npvs8e8

Objective:
The objective of the sub-project is to provide the governments, civil society and the private sector in Central America with information on the benefits of CSR for competitiveness in the energy sector, fostering and strengthening local, regional, and national spaces for communication and dialogue that allow for the development of responsible investments in energy, environmental and social terms.

Specific objectives for 2015-2016:
• Prepare a methodology to create a “Report Card” for national reporting on the implementation of CSR in the country.
• Implement the methodology in three national case studies addressed to Central American countries: Guatemala, Honduras and Nicaragua.
• Disseminate the methodology and the results of the case studies in a Regional Technical Workshop addressed to refine the methodology among specialists from government and private sector, in order to obtain a final template (report card).
Outcomes to Date:

- CSR Situation Report methodology is under development.
- Replicable Methodology to Implement Corporate Social Responsibility in Companies of the Energy Sector with Gender Equity Methodology, available at: http://tinyurl.com/oewlnz5

Sub-project WBS # 2130: Promoting Corporate Social Responsibility (CSR): Transparency Initiative for Extraction Industries (EITI)

Objective:

The objective of this Sub-project on the Extractive Industry Transparency Initiative (EITI), which is part of the sub-project ‘Promoting CSR’, is to analyze the status of transparency (with regard to hydrocarbon fiscal revenues) in some countries of LAC with regards to the administration of resources resulting from the petroleum and gas industry, and propose recommendations for these countries to prepare themselves to join the EITI Organization.

Specific objectives for 2015-2016:

- Support the preparation of national reports on the status of EITI and/or the strategy to qualify to join EITI for the three countries of LAC: Dominican Republic, Guyana and Belize.
- Presentation of the three national EITI documents in an International EITI Conference organized by the EITI Secretariat to be held in Peru.

Outcomes to Date:

- Support for the implementation of the 3rd. EITI Conference of the Americas, organized by the International EITI Secretariat, held in Lima, Peru in June 2015. The project sponsored the preparation
and submission of documents on their interest in participating in the initiative by delegates from **Belize, Guyana** and **Dominican Republic**.

- Preparation of the workshops for socialization and dissemination of IETI civil society in Dominican Republic, with support from the Ministry of Energy and Mines.


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**Objective:**

The objective of this Module on Energy, Environment and Population Program (EEP), which is part of the sub-project ‘Promoting CSR’, is to foster constructive dialogue between the governments, companies and indigenous communities of the Andean countries of the Amazon: Bolivia, Colombia, Ecuador, Peru and Venezuela, regarding hydrocarbons exploration and exploitation.

**Specific objectives for 2015-2016:**

- Prepare a Regional Tripartite Conference to present the results, and agree next steps of the cooperation among representatives from Governments, hydrocarbon industry and indigenous population from the participant countries of the Andean Sub-region.

- Up-date the web page of the Project.

**Outcomes to Date:**

- The project’s website updated, incorporating information on the latest actions.

- The Regional Tripartite Conference is under organization phase and will be held in Peru in November 2015.
Objective:
The objective of this sub-project is to improve the living conditions of populations in isolated areas (which are not connected to electricity grid) to stimulate productive activities that contribute to sustainable development of the communities (in pilot projects in Bolivia, Guatemala, Guyana). This will be done through private sector partnerships, with their financial contributions, and the application of CSR principles.

Specific objectives for 2015-2016:
• Complete the pending activities for ensure the participation of public and private companies in Bolivia and Guyana.
• Complete the technical - financial structure for the energy projects in isolated zones in Bolivia and Guyana while applying CSR, including the Environmental Impact Assessment (EIA) studies.
• Implement the energy projects in communities in isolated areas of Bolivia and Guatemala.
• Follow up the productive projects developed in Guatemala, Bolivia and Guyana.
• To develop a strategy to strengthen Women’s Energy Committees in the rural communities where rural energy pilot projects are carried out in Guyana and Bolivia and continue supporting training women's committees in Guatemala.

Outcomes to Date:
• Productive Projects in Guatemala are under development: a) micro-hydroelectric plant of 90 kW and distribution networks of electricity in normal operation (financed by the Government and the private sector); b) maintenance equipment acquired for Micro-Hydro Power Plant and the distribution networks of electricity; c) computer center equipped and in operation; d) revolving funds approved for community loans and loan applications are being analyzed; e) the forest management plan and installation of the woodwork in star-up phase.
• Productive Projects in Guyana are under planning: Guyanese technical staff of the Energy Agency is responsible for the implementation of pilot projects; verified and defined the beneficiary communities and pilot projects.
• Productive projects in Bolivia are under planning; defined the beneficiary communities and pilot projects, negotiated the support of
Pluspetrol and local municipalities for implementation of pilot projects.

- Gender Committees in Energy established in rural communities of Guatemala; the strategy for strengthening community gender committees is under implementation.
Access to sustainable energy for Latin America and the Caribbean