CABEI's contribution to improving regional competitiveness through electric power development
The initiatives promoted and supported by CABEI contribute to the sustainable development of its member countries and comply with international commitments such as the 2030 Development Agenda.

Electricity is a primary source for the production of goods and services and, therefore, the development of societies. For this reason, it has become a priority issue for the Central American Bank for Economic Integration (CABEI), which joins the efforts of its member countries to guarantee access to this resource in an efficient and sustainable manner.

Since its founding in 1960, through 2021, the Bank has totaled 258 approvals for interventions in the sector for an amount totaling US$7 billion, of which more than 80% were for renewable, electrification, transmission, and distribution projects.

CABEI Executive President, Dr. Dante Mossi, explains that the Bank has a sectoral intervention framework that determines the initiatives that are addressed in this area and that are in line with the fulfillment of the Development Objective of the Millennium Development Goals.

Sustainable Development Goal (SDG) 7: Ensure access to affordable, secure, sustainable, and modern energy for all.

Impacts of CABEI-approved interventions over 61 years

<table>
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<tr>
<th>Approvals equivalent to</th>
<th>28.4% of installed capacity in the SICA countries</th>
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<tbody>
<tr>
<td>6,719 MW</td>
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<tr>
<td>GHG reduction of more than</td>
<td>6.7 MILLION Tons of Co²</td>
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CABEI Sectoral Framework

- **Energy Efficiency and Cleaner Production**
  - Interventions to be supported: Energy diagnostics, replacement of equipment and implementation of efficient energy use measures, access to sustainable energy supply alternatives, investment in technologies that produce savings in energy consumption and incorporation of cleaner energy generation processes prioritizing the use of local, renewable resources that contribute to the reduction of Greenhouse Gases (GHG).

- **Renewable Energy Generation**
  - Interventions to be supported: Hydropower, wind, solar, geothermal, tidal, wave and biofuels.

- **Energy Matrix Efficiency**
  - Interventions to be supported: Expansion, repowering, and reinforcement of existing or future electrical infrastructures, incorporation of innovative technologies that make more efficient use of available resources to generate energy.

- **Energy Distribution, Transmission, and Management**
  - Interventions to be supported: Energy service access, supply, storage and quality, rural electrification, infrastructure and equipment for electricity supply, distribution, transmission and interconnection, and distributed generation projects.

- **Non-Renewable Energy Generation**
  - Interventions to be supported: Infrastructure and equipment for the generation of energy from fossil fuels, incorporating strict emission controls in order to mitigate and compensate for the environmental effects that this type of project has on its surroundings.
“Energy is fundamental for the economic and social growth of the countries in our region, and access to it drives their development and growth, with a direct effect on productivity, competitiveness, health, education and access to drinking water, among other factors. The evidence for this is that an increase in a nation’s energy consumption is correlated with its economic growth,” explained CABEI energy specialist Fernando Fanconi.

**Regional electrical integration**

CABEI’s priority is to promote the rational use of energy in its member countries by implementing measures that enable more efficient and rational consumption of electricity at all levels of consumption.

To this end, Fanconi explained, the Bank considers it important to promote and formulate energy efficiency programs with the objective of encouraging a rational use of energy resources at all levels of consumption. This will require a legal and regulatory framework, standards, as well as subsequent incentives to promote energy efficiency and the identification of alternative business models that allow the financing of programs with the participation of the private sector, which will be key to the promotion of these programs.

Along these lines, the multilateral supports initiatives of each regional country identified as a priority by the authorities, but also regional initiatives such as a portion of the Electrical Interconnection System of Central American Countries I (SIEPAC), an initiative aimed at developing a more competitive energy base for the region; as well as the strengthening of institutional legal mechanisms for the participation of the private sector in the Regional Electricity Market (MER). The Bank’s initial contribution was US$109.0 million, and in 2017 it approved an expansion for US$128.0 million.

**CABEI FINANCING**

<table>
<thead>
<tr>
<th>Initial contribution</th>
<th>Expansion in 2017</th>
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<tr>
<td>US$109 MILLION</td>
<td>US$128 MILLION</td>
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Electrical Interconnection System for Central American Countries

[Map of Central American Countries showing electrical interconnections and key nodes]
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<tr>
<th>Name, amount, and status</th>
<th>Description</th>
<th>Main Impacts</th>
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</table>
| SUPPORT FOR THE RURAL ELECTRIFICATION PROGRAM FOR TRANSMISSION WORKS IN THE REPUBLIC   | Rural Electrification Program within the framework of the execution of transmission works, the objective being the construction of approximately 463 km of 69, 138 and 230 kV transmission lines, and the installation of 306 MVA in 12 electrical substations that would be expanded. | • Beneficiaries: 280,639 new customers.  
• Improve the living conditions of the population with lower economic resources and increase the productivity of rural communities by improving and expanding the coverage of electricity services, contributing to the poverty reduction strategy. |
| of GUATEMALA                                                                             |                                                                                                                                                                                                             |                                                                                                                  |
| Amount approved by CABEI                                                                |                                                                                                                                                                                                             |                                                                                                                  |
| US$40.1 MILLION                                                                          |                                                                                                                                                                                                             |                                                                                                                  |
| Status                                                                                  | EXECUTED                                                                                                                                         |                                                                                                                  |
| SYNDICATED LOAN FOR SAN ANTONIO EL SITIO PROJECT                                        | Construction, installation, and start-up of a wind power plant with an installed capacity of 50 MW, to be executed in the Municipality of Villa Canales, Department of Guatemala, Republic of Guatemala. | • 140 temporary direct jobs during project construction and 20 permanent direct jobs after start-up.  
• Reduction in fossil fuel consumption by approximately 232,000 barrels (assuming 1.76 barrels per MWh). |
| Amount approved by CABEI                                                                |                                                                                                                                                                                                             |                                                                                                                  |
| US$50 MILLION                                                                           |                                                                                                                                                                                                             |                                                                                                                  |
| Status                                                                                  | EXECUTED                                                                                                                                         |                                                                                                                  |
| LOS PATOS PREINVESTMENT                                                                 | Technical and feasibility studies necessary to determine the viability of the Los Patos Hydroelectric Project in the San Marcos Department.                                                                    | • This study provided technical guidelines for the construction of a mini-hydroelectric power plant. |
| Amount approved by CABEI                                                                |                                                                                                                                                                                                             |                                                                                                                  |
| US$80,000                                                                               |                                                                                                                                                                                                             |                                                                                                                  |
| Status                                                                                  | EXECUTED                                                                                                                                         |                                                                                                                  |
| GREEN MSMEs I & II                                                                      | This program is part of CABEI's Global Credit Line product for intermediary financial institutions. It has ordinary resources from CABEI, the European Union and KfW for financing renewable energy generation projects of up to 5MW and energy efficiency and has a credit component and a non-reimbursable technical assistance component for financial institutions, final beneficiaries, and promotion. | • Possibility of access to studies that help in the decision-making process for investment in energy issues.  
• Medium-term savings.                                                                 |
| Amount approved by CABEI                                                                |                                                                                                                                                                                                             |                                                                                                                  |
| This is regional data                                                                  | Phase I Status: EJECUTADA  
Phase II Status: UNDER EXECUTION                                                                                                           |                                                                                                                  |
| XACBAL HYDROELECTRIC PROJECT                                                            | Hydroelectric plant with a 94.9 MW operational capacity.                                                                                                                                             | • Generated 400 temporary jobs and 25 permanent jobs.  
• Reduced greenhouse gas emissions.  
• Environmental improvement and adaptation program that includes reforestation programs and improvement of the project’s basins. |
<p>| Amount approved by CABEI                                                                |                                                                                                                                                                                                             |                                                                                                                  |
| US$182 MILLION                                                                           |                                                                                                                                                                                                             |                                                                                                                  |
| syndicated loan                                                                         |                                                                                                                                                                                                             |                                                                                                                  |
| US$90 MILLION                                                                           | from CABEI                                                                                                                                       |                                                                                                                  |
| Status                                                                                  | EXECUTED                                                                                                                                         |                                                                                                                  |</p>
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<tr>
<td><strong>TECHNICAL COOPERATION: STUDIES ON ELECTRICITY SECTOR PROJECTS IN HONDURAS &amp; NICARAGUA.</strong>&lt;br&gt;Amount approved by CABEI US$1,540,000&lt;br&gt;Status UNDER EXECUTION</td>
<td>Expansion &amp; reinforcement of the electricity transmission systems in Honduras &amp; Nicaragua.</td>
<td>Beneficiaries: 1,903,093 customers in Honduras and 1,232,474 customers in Nicaragua. Technical, regulatory, financial, and environmental feasibility studies for 7 electricity transmission projects.</td>
</tr>
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<td><strong>OPD2 IN SUPPORT OF THE IMPLEMENTATION OF THE GENERAL ELECTRIC INDUSTRY LAW (LGIE) IN HONDURAS.</strong>&lt;br&gt;Amount approved by CABEI US$250.0 MILLION&lt;br&gt;Status In formalization process.</td>
<td>Positive impact on public finances to boost competitiveness and reliability in the electricity subsector and system in an efficient and sustainable manner, guaranteeing energy demand at an efficient cost, reducing carbon emissions, and strengthening a wholesale electricity market.</td>
<td>• Beneficiaries: the entire population. • Improve the operation of the wholesale electricity market. • Have a transmission company operating commercially. • Public sector up to date in the payment of its electricity consumption and initiate a prepaid meter pilot program. • Model for the financial sustainability of the electric company. • Comprehensive universal access plan for educational and health centers, among other important results.</td>
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<td><strong>OPD1 IN SUPPORT OF THE IMPLEMENTATION OF THE GENERAL ELECTRIC INDUSTRY LAW (LGIE) IN HONDURAS.</strong>&lt;br&gt;Amount approved by CABEI US$250.0 MILLION&lt;br&gt;Status EXECUTED</td>
<td>Support public policy actions and development results that are priorities for the country, and that support the implementation of the LGIE in Honduras and, at the same time, strengthen the maintenance of macroeconomic stability.</td>
<td>• Expected beneficiaries: the entire population. • Support for public policy actions and development results. • Boosting the implementation of the LGIE. • Strengthening macroeconomic stability.</td>
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<td><strong>TECHNICAL COOPERATION: TECHNICAL ASSISTANCE PROGRAM FOR OPD 2 SUPPORT FOR THE IMPLEMENTATION OF THE GENERAL ELECTRIC INDUSTRY LAW (LGIE) IN HONDURAS.</strong>&lt;br&gt;Amount approved by CABEI US$901,120.00&lt;br&gt;Status UNDER EXECUTION</td>
<td>Support the split-off process of the Empresa Nacional de Energía Eléctrica (ENEE), as stipulated in the LGIE, with the purpose of promoting competition in the sector, improving its efficiency, and ensuring its sustainability.</td>
<td>It is expected that as a result, all the required process will be established and ENEE will establish three new companies, a generator, a transmitter and at least one distributor.</td>
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<td><strong>SOCIAL ELECTRIFICATION PROGRAM</strong>&lt;br&gt;Amount approved by CABEI US$ 30.0 MILLION&lt;br&gt;Status EXECUTED</td>
<td>Increase rural and social electrification coverage in the country which in December 2009 was 47% in rural areas and 77.8% in urban areas. The program ended in 2017, year in which the rural coverage indicator increased to 66.96%.</td>
<td>Beneficiaries: 240,435 people from 45,365 homes in 744 communities incorporated to the national energy network in 16 departments. A total of 990 km of primary network and 882 km of secondary network were constructed.</td>
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<td>Name, amount, and status</td>
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<td>Main Impacts</td>
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| **CERRO DE HULA WIND FARM.** | Diversify the country’s energy matrix by introducing new technology to expand electricity service coverage and substitute fuel imports. | Benefits 1,684,114 system subscribers.  
- Plant with a capacity of 126 MW and generation of 430 GWh per year.  
- Generation of 330 temporary jobs and 65 permanent jobs.  
- Benefits the communities of Santa Ana and Buenaventura with social projects and scholarship programs reaching US$170 thousand annually. |
| Amount approved by CABEI | US$75.4 MILLION | **EXECUTED** |
| Status | **EXECUTED** |

| **PHOTOVOLTAIC SOLAR PLANTS IN CHOLUTECA.** | Transforming the country’s energy matrix, reducing the oil bill and foreign exchange outlays, reducing ENEE’s investment burden and greenhouse gas emissions. | Benefits 3,608 inhabitants of the surrounding communities with community investment projects.  
- Three photovoltaic solar panel plants generating 143 GWh per year.  
- Nearly 190,900 subscribers benefit from better quality electricity service.  
- Reduction of 91,000 tons of CO2 emissions per year.  
- Diversification of the country’s energy matrix (solar energy accounts for 10% of the country’s total). |
| Amount approved by CABEI | US$45.0 MILLION | **EXECUTED** |
| Status | **EXECUTED** |

| **STRENGTHENING OF THE EDUCATIONAL MANAGEMENT OF THE FRANCISCO MORAZÁN NATIONAL PEDAGOGICAL NATIONAL UNIVERSITY, through the use and exploitation of photovoltaic energy.** | To increase the country’s share of electric energy, implementing projects that use renewable energy sources and energy efficiency for climate change adaptation and mitigation. | Direct beneficiaries: 1,413  
- Generation of 1,630 KW and 70 KW of heat energy using renewable energy sources in 3 beneficiary universities.  
- Laboratories and workshops equipped with specialized equipment. |
| Amount approved for the CABEI-administered Debt Conversion Program for Honduras vis-à-vis Spain. | L.71.4 MILLION | **EXECUTED** |
| Status | **EXECUTED** |

**EL SALVADOR**

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<th>Name, amount, and status</th>
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| **BOSPHORUS SOLAR PHOTOVOLTAIC PROJECT** | The project consisted of the design, supply, installation, and commissioning of 10 photovoltaic power generation plants, which together have a total installed capacity of 100.0 MW (equivalent to 142.1 MWp), called the Bosphorus Photovoltaic Solar Project. The 10 power generation plants comprising this project were developed in three phases: Bosphorus I, with three (3) plants of 10 MWn each; Bosphorus II, with four (4) plants of 10 MWn each; and Bosphorus III, with three (3) plants of 10 MWn each. The location of the Project is in the departments of La Unión, San Miguel, Usulután, San Salvador, Santa Ana, and Sonsonate in the Republic of El Salvador. Syndicated loan, the purpose of which was to complete the resources to finance the entire project. | 1,185 temporary jobs during the execution stage and thirteen permanent positions.  
- 100.0 MW of energy, distributed in ten renewable energy generation plants.  
- Annual generation of 221.35 GWh.  
- 215,000 beneficiaries, electricity users.  
- Annual reduction of 157,000 tons of CO2. |
| Amount | 61.3 MILLION  
(CABEI contributed 21.3 and channeled resources from other multilaterals for 40.0 million, including FinnFund, Bio and CIFI). | **OPERATING** |
| Executing Unit | BÓSFORO LTDA. DE C.V. | **OPERATING** |
### El Chaparral Hydroelectric Power Plant Project

**Name:** El Chaparral Hydroelectric Power Plant Project  
**Amount approved by CABEI:** US$57.5 million  
**Executing Unit:** CEL  
**Status:** OPERATING

The purpose of the project was to build and equip a second powerhouse using the existing reservoir of the 5 de Noviembre Hydroelectric Power Plant, in order to increase the installed capacity by 80 MW and an average generation capacity of 130.34 GWh per year with the following components: civil works, construction of a surface powerhouse with capacity to house two generation units, with a reinforced concrete structure, supply, installation and commissioning of electromechanical equipment, discharge channel, expansion of existing substation, 115 kV interconnection line section, project access roads.

- **Main Impacts:**
  - Installed capacity of 80 MW, to displace thermal generation and meet the average annual growth in energy demand.
  - Annual generation of 130.34 GWh.
  - Contribute to climate change mitigation through the annual reduction of 89,200 tons of CO2.
  - 1,400 temporary jobs during the construction stage, including direct and indirect labor, mostly of local origin.
  - 29 permanent jobs.
  - 127,000 beneficiaries, electricity users.
  - Avoidance of importing 221,500 barrels of oil for thermal generation.
  - Attraction of external resources through co-financing with KfW, as well as the participation of the European Union through the Latin American Investment Facility (LAIF).

### NATIONAL SUSTAINABLE ELECTRIFICATION AND RENEWABLE ENERGY PROGRAM (PNESER SEGMENT A)

**Name:** NATIONAL SUSTAINABLE ELECTRIFICATION AND RENEWABLE ENERGY PROGRAM  
**Amount:** US$75.00 million  
**Status:** UNDER EXECUTION

Access for a significant portion of the population to an efficient and sustainable electricity service. It has 7 components: Rural Electrification by Extension of Networks; Normalization of Service in Settlements; Expansion in Isolated Areas with Renewable Energy; Pre-investment and Studies of Renewable Energy Generation Projects; Energy Efficiency Programs; Reinforcement of the Transmission System and Sustainability of ENEL’s Isolated Systems.

- **Persons Benefited:** 2,621,990
- **Generation of Jobs:** 2,000
- **Employment for women:** 200
- **Increase in electricity coverage from 64.7% to 86.7% of the country one year after its approval in 2010.**

### NATIONAL SUSTAINABLE ELECTRIFICATION AND RENEWABLE ENERGY PROGRAM (PNESER SEGMENT B)

**Name:** NATIONAL SUSTAINABLE ELECTRIFICATION AND RENEWABLE ENERGY PROGRAM  
**Amount:** US$86.50 million  
**Status:** UNDER EXECUTION

Financing of components 1 and 2: Rural Electrification by Extension of Networks: To extend the coverage of electricity service to the rural population, expanding the distribution capacity to provide an adequate service and improving the quality of life in the rural communities benefiting from the program; and Normalization of Electricity Service in Settlements, reducing energy losses and improving the quality of life of the beneficiaries.

- **Persons Benefited:** 942,561
- **Generation of Jobs:** 674
- **Employment for women:** 67
- **Increase in electricity coverage from 90% to 93% of the country one year after its approval in 2017.**
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| **ELECTRICITY SECTOR SUSTAINABILITY PROGRAM IN NICARAGUA** | It consists of a series of actions that will allow, on one hand, the reduction of energy losses (technical and non-technical in distribution) and, on the other, the improvement of the infrastructure of the electricity distribution network, which will result in an improvement in the sustainability of the Nicaraguan electricity sector. | • Persons Benefited: 992,787 Rehabilitation of 10 electrical substations.  
• Rehabilitation of 2,596 km of distribution network.  
• Construction of 400 km of distribution network.  
• Reduction of technical and non-technical losses of 15.48%.  
• Generation of jobs: 1,080  
• Jobs for women: 237  
• Generation of jobs: 40  
• Jobs for women: 5 |
| Amount | US$163.50 MILLION |
| Status | UNDER EXECUTION |

| **REHABILITATION AND MODERNIZATION OF THE CENTROAMÉRICA AND SANTA BÁRBARA HYDROELECTRIC PLANTS** | The project consists of electromechanical works at the Central America and Santa Barbara Plants, which have a combined capacity of 100 MW, as well as the enabling of the Bypass of the Central America Plant, which is important for the use of the Larreyaga Hydroelectric Power Plant. | Increase the useful life of the Centroamérica and Santa Bárbara hydroelectric plants, which are the largest of their kind in the country.  
• Generation of jobs: 40  
•Jobs for women: 5 |
| Amount | US$25.40 MILLION |
| Status | UNDER EXECUTION |

| **NATIONAL SUSTAINABLE ELECTRIFICATION AND RENEWABLE ENERGY PROGRAM (PNESER C)** | Continue with the financing of components 1 and 2: Rural Electrification by Extension of Networks: Expansion of the country's electricity coverage through the connection to the network of 35,000 homes in 1,278 rural communities nationwide; and Normalization of electricity service in 79,050 homes in 402 urban settlements, reducing energy losses and improving the quality of life of the beneficiaries. | • Reach an electrification rate of 99.9% in the country by 2025.  
• People Benefited: 599,903  
• Communities Benefited: 1,278 rural  
• Urban settlements benefited: 402  
• 3,465 kilometers of distribution lines.  
• Jobs Generated: 757 temporary jobs.  
• Increase in electricity coverage of 99.9% of the country by the year of its approval in 2020. |
| Amount | US$143.00 MILLION |
| Status | UNDER EXECUTION |

| **MANAGUA CENTRAL SUBSTATION** | Design, construction, equipment supply, installation, and commissioning of a substation with a 138/13.8 kV transformation ratio and 30/40 MVA transformation capacity, as well as a 1.0 km. double circuit line at 138 kV voltage to interconnect to the National Interconnected System (SIN). The project meets the growth in energy demand in the city of Managua and will strengthen the capital's distribution system. | • Persons Benefited: 142,987  
• Reduction in energy losses and rationing.  
• Stability in the electric service.  
• Generation of jobs: 37  
• Jobs for women: 5 |
<p>| Amount | US$6.73 MILLION |
| Status | PHYSICAL ADVANCE:100% |</p>
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<th>Name, amount, and status</th>
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| NICARAGUA’S ELECTRICITY TRANSMISSION SYSTEM EXPANSION PROGRAM | Construction of the Bluefields Substation at 138 kilovolts (Kv), La Esperanza - Bluefields Transmission Line at 138 kilovolts (Kv) and Expansion of the La Esperanza Substation and the expansion of the Operational Capacity of the National Load Dispatch Center (CNDC). The latter will modernize the infrastructure of the CNDC and guarantee a service with quality and reliability for a better use of the available energy sources, as well as the reduction of losses in the system, and encourage more investment in renewable energy generation. | - Beneficiaries: 10,842 user families and 2,545 new users, for a total of 56,902 inhabitants.  
- Guarantee a more efficient, regular, and reliable energy supply in the municipality of Bluefields and surrounding areas.  
- Enabling 68.15 kilometers of transmission lines, a new substation, an expanded substation, modernization of the National Load Dispatch Center (CNDC).  
- Increase in Energy Supply by 71,766.0 Megawatt hours (MWh).  
- Jobs generated: 683 temporary direct jobs and 7 permanent direct jobs. |
| COSTA RICA | | |
| Name, amount, and status | Description | Main Impacts |
| REVENTAZÓN HYDROELECTRIC PROJECT CABEI Financing US$225.0 MILLION | In addition to increasing the energy matrix by 305.5 MW, it avoids the emission of more than 160,000 tons of CO2 and the consumption of some 2.5 million barrels of oil. This hydroelectric plant is the largest power plant in the region and currently produces the most electricity in Costa Rica. |  
- 3,015 jobs.  
- 52,4266 families. |
| PIRRÍS HYDROELECTRIC PLANT CABEI Financing US$172 MILLION | It contributes 136 MW of installed capacity and an average annual generation of 560 GWh to the National Interconnected System. This plant is connected to the metropolitan load center through a 72 km, 230 kV transmission line. |  
- 160,000 families of 24 communities the Los Santos zone. |
| CACIHYDROELECTRIC POWER PLANT EXPANSION CABEI Financing US$140.0 MILLION | It allowed an increase in installed capacity from 100 MW to 160 MW and an additional average generation of 250 GWh. The expansion was designed as a hydroelectric plant fed by natural tributaries. |  
- 30,000 beneficiaries.  
- 759 jobs. |
<p>| LOS NEGROS HYDROELECTRIC PLANT CABEI Financing US$18.3 MILLION | For its construction, it has an average annual generation of 69 GWh from an installed generation capacity of 17 MW. | |</p>
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| **CENTRAL VALLEY WIND FARM** | Generation of more than 15.3 megawatts | - Avoids the emission of almost tons of carbon dioxide.  
- More than 14,000 homes in the Metropolitan Area |
| CABEI Financing | **US$25.7 MILLION** | |
| Status | EXECUTED | |
| **LAS PAILAS GEOTHERMAL PROJECT** | Generation of 42.5 megawatts of installed capacity, firm and renewable. | 14 projects in the areas of generation, transmission, and distribution. Reconstruction or installation of new transmission lines and the consequent reduction of losses. |
| CABEI Financing | **US$160 MILLION** | |
| Status | EXECUTED | |
| **ICE 2014-2016 ELECTRICITY DEVELOPMENT PROGRAM** | 14 projects in the areas of generation, transmission, and distribution. Reconstruction or installation of new transmission lines and the consequent reduction of losses. | |
| CABEI Financing | **US$180 MILLION** | |
| Status | EXECUTED | |
| **PANAMÁ** | - | |

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| **BARRO BLANCO HYDROELECTRIC PROJECT** | Construction of 29MW hydroelectric plant. The project included the construction of 1.83 km of asphalt roads; a conventional concrete dam with a height of 65 m; a reservoir of 31.7 million cubic meters. | - Provide enough energy to light the homes of more than 50,000 families per year.  
- Barro Blanco contributes to reducing carbon emissions by approximately 63 metric tons per year, equivalent to reducing imports by 180,000 barrels of oil.  
- This project has preserved 161 jobs, 16 of which are held by women. |
| Amount approved by CABEI | **US$26.1 MILLION** | |
| Status | EXECUTED | |
| **PENONOME II WIND PROJECT** | The project consisted of the design, construction, equipment, operation, and maintenance of a wind power generation plant with an installed capacity of 215 MW in the city of Penonomé, province of Coclé, in the Republic of Panama. | - 236,700 people.  
- 150 temporary jobs.  
- Reduction in greenhouse gas emissions by at least 285.9 thousand tons of CO2 per year.  
- Contribution to savings in oil imports of approximately 687.5 thousand barrels per year, which, at indicative oil prices, would indicatively represent a reduction in the Republic of Panama's oil bill of US$62,421.0 thousand per year. |
| Amount approved by CABEI | **US$30 MILLION** | |
| Status | EXECUTED | |
### ATLANTIC NATURAL GAS PROJECT
- **Amount approved by CBEI:** US$140 MILLION
- **Status:** EXECUTED

The power generation plant has a storage system consisting of a 180,000 m³ tank and a regasification terminal. Also as part of the project, 1,000 m² of wharf, 2,000 m² of administrative area and 1 kilometer of taxiway for internal service were built.

**Main Impacts**
- 404 temporary jobs and 26 direct jobs, of which 45% are women.
- Gross generation of clean energy with the entry into operation of this project was 10,807.36 Gigawatt hours (GWh).

### CREDIT LINE FOR EMPRESA DE TRANSMISIÓN ELÉCTRICA S.A. (ETESA)
- **Amount approved by CBEI:** US$50 MILLION
- **Status:** EXECUTED

The general objective of the line of credit is to contribute to improving the quality, reliability, and safety of Panama's electricity transmission system.

**Main Impacts**
- This line will contribute to provide greater short-term resources to meet ETESA's priority investment needs.
- Decrease in energy displaced or lost in the system.
- It will incorporate aspects for the control of the networks and the future entry of large-scale energy storage, considering the development of policies and regulations in accordance with the needs of Panama's electrical system.

### NATIONAL INTERCONNECTED SYSTEM COOPERATION (SIN)
- **Amount approved by CBEI:** US$18,900
- **Status:** UNDER EXECUTION

This study will update the structure, operation, commercialization, and regulation of the electricity system as a result of the integration of renewable energies into the country's generation network.

### DOMINICAN REPUBLIC

### CONSTRUCTION OF A 50-KM GAS PIPELINE IN SAN PEDRO DE MACORIS
- **Amount approved by CBEI:** US$54 MILLION
- **Status:** EXECUTED

Expansion of liquefied natural gas capacity, distribution, and commercialization, reducing emissions and costs through the conversion of thermal generation plants.

**Main Impacts**
- Efficient and safe handling and transportation of gas for energy production.
- Gas as an alternative fuel to fossil fuels.

### PALOMINO HYDROELECTRIC PROJECT:
- **Amount approved by CBEI:** US$130 MILLION
- **Status:** UNDER EXECUTION

Construction of a hydroelectric plant with a clean and renewable energy generation capacity of 80 megawatts.

**Main Impacts**
- 15% increase in national energy generation.
- Generation of clean and renewable energy.
- Savings of 400,000 barrels of oil.
- Reduction of energy tariffs.
### MONTEGRANDE MULTIPURPOSE DAM PROJECT, PHASE III

**Amount approved by CABEI**  
US$249.6 MILLION

**Status**  
UNDER EXECUTION

**Description**  
Construction of the dam for power generation and drinking water.

**Main Impacts**
- Beneficiaries: 51 communities in the South of the Dominican Republic.
- 26,586.77 hectares benefited with irrigation canals.
- New energy generation.
- Increased availability of drinking water.
- Development of the southern part of the country.
- Helps control floods.

### DEVELOPMENT POLICY OPERATION (OPD)

**Amount approved by CABEI**  
US$350 MILLION  
of which US$50.0 million came from the Korean Trust Fund (KTF).

**Status**  
UNDER EXECUTION

**Description**  
Support for human capital protection during the COVID-19 crisis and for sustainable and inclusive economic reactivation; energy sector reform; and support for the transition of the energy sector in the face of climate change.

**Main Impacts**
- Expected beneficiaries: 10,448,499 people.
- Energy Sector Reform.
- Transition of the Energy Sector in the face of climate change.

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In order to implement the aforementioned initiatives, the effect that they will have on the environment was considered and priority was given to those that enable low greenhouse gas emissions, resilience to climate change and reduce the consumption of barrels of oil.

“For several years, CABEI has been redoubling its efforts to identify, advise and promote the development of renewable energies, which are essential not only to reduce greenhouse gas emissions and other pollutants on the planet, but also to facilitate the electrification of transportation, which is one of the most polluting sectors in the region, an issue that is on the agenda of CABEI and its member countries,” explained Fanconi.

As the Green Bank of Central America, the multilateral will continue to support the goal of reducing vulnerability to climate events and the recovery of ecosystems, through the identification and development of initiatives to ensure that electricity is available to all the region’s inhabitants and that the region is increasingly committed to sustainable regional electricity integration.