

# **WATER** for life



Human Development



**CABEI CONTRIBUTES TO  
UNIVERSAL AND EQUITABLE  
ACCESS TO CLEAN WATER AND  
SANITATION SERVICES FOR  
CENTRAL AMERICAN FAMILIES**

**CABEI**  
Central American  
Bank for  
Economic  
Integration



Water is an essential element for human beings, biodiversity, the environment and all living elements on the planet. Its importance is vital for reducing poverty, as well as creating greater access to opportunities in the region, since having this resource in the countries will guarantee health and better well-being for families.

However, in Central America the problem is complex and diverse, and varies from country to country. Some of the main problems are scarcity, lack of sanitation services, contamination of water sources and climate change, which causes droughts and meteorological phenomena that affect the availability and quality of water resources.

Therefore, it is clear that the region's countries resources to make greater investments in projects that provide quality water and sanitation services with resilient infrastructures that are also capable of reducing losses of the vital liquid, as well as strengthening the capacity of service providers at both the urban and rural levels, analyzing tariffs according to the users' ability to pay, and generally improving institutional and regulatory frameworks.

## CABEI'S BACKING

The Central American Bank for Economic Integration (CABEI) has maintained a constant commitment to access to clean and safe water in the region. Since its founding in 1960, it has financed and supported projects related to access to this vital liquid.

As part of its Intervention Strategy for the Water and Sanitation Sector in the region, the multilateral currently supports projects, cooperation and studies, which include in their strategic axes the institutional strengthening and consolidation of the sector.

*"We recognize that sustainable access to clean water and sanitation is essential for public health and economic well-being worldwide. For our countries, it is even more important given the situation of scarcity, the contamination of water sources and the damage caused by climate change. For this reason, we are supporting various initiatives that we know will improve the quality of life in the areas of health and well-being, as well as economic and competitiveness,"* said Dr. Dante Mossi, CABEI's Executive President





## WATER AND SANITATION PROGRAMS SUPPORTED IN THE REGION

NAME	DESCRIPTION	OTHER DATA / IMPACTS
<p><b>EL SALVADOR</b> </p> <p>Loan for the Rehabilitation of the Las Pavas Water Treatment Plant, Municipality of San Pablo Tacachico, Department of La Libertad, El Salvador. <b>Amount disbursed US\$4,520.06 thousand.</b></p> <hr/> <p>Cooperation for Preinvestment Studies for the Rehabilitation of the Clean Water Supply System Guluchapa - Joya Grande, located in the Municipalities of Ilopango-Santiago Texacuangos, Department of San Salvador.</p> <p>Amount: US\$600.0 thousand with resources from the Korea-CABEI Partnership Single Donor Trust Fund (KTF).</p>	<p>The Las Pavas Water Treatment Plant and its three pumping stations were rehabilitated to extend their useful life and improve the clean water supply of the San Salvador Metropolitan Area (AMSS in Spanish), El Salvador.</p> <hr/> <p>Financing of the pre-investment studies for the Rehabilitation of the Guluchapa - Joya Grande drinking Water supply system, with the objective of increasing the efficiency of the clean water service to the critical sectors of the municipalities of Soyapango, Ilopango, Tonacatepeque, San Martín, San Marcos, Santo Tomás and Santiago Texacuangos, department of San Salvador, and the municipalities of Olocuilta and San Francisco Chinamequita, department of La Paz, in terms of continuity and efficiency, San Martín, San Marcos, Santo Tomás and Santiago Texacuangos, department of San Salvador, and the municipalities of Olocuilta and San Francisco Chinamequita, department of La Paz, in terms of continuity, quality and quantity demanded by the population, in addition to increasing coverage.</p>	<p>The final studies and designs for the project were carried out through a CABEI pre-investment grant for US\$650.0 thousand.</p> <hr/> <p>The objective of this technical cooperation (TC) is to support the Government of El Salvador (GOES) in the modernization of the Guluchapa water supply system, developing a photovoltaic power generation plant and taking advantage of information and communication technologies (ICT) to monitor and control processes to improve operational efficiency and mitigate water loss.</p>
<p><b>HONDURAS</b> </p> <p><b>Financing</b></p> <p>Financing: Irrigated Agricultural Development Program (PDABR in Spanish).</p> <p>Amount: US\$52.0 million</p> <hr/> <p>Expansion Project of the Clean Water Supply System in the city of Gracias, Department of Lempira. Amount: US\$36.0 million of which US\$25.2 million is co-financed by EDCF/Korea.</p>	<p>Increase the irrigated area in the country through a sustainable water resources management plan. The Program consists of four main irrigation projects: Sulaco, Selguapa, San Sebastian and Small Irrigation Projects (RBP).</p> <hr/> <p>Improve access to clean water services for the population, increasing the quantity and quality of water supplied by expanding the supply system.</p>	<ul style="list-style-type: none"> <li>• Construction and/or rehabilitation of 3 large irrigation systems and small irrigation systems.</li> <li>• 5,190 hectares incorporated to irrigation and 2,529 families benefitted.</li> <li>• Natural resource management plans for the sub-basins that comprise the area of influence of the different subprojects.</li> <li>• Increase the quality and quantity of water supplied to 4,536 families in the City of Gracias, reaching a total of 15,377 families benefitted.</li> <li>• Strengthen the local water and sanitation service provider by increasing its capacities.</li> <li>• Implement environmental and social measures to protect the Celaque mountain reserve zone.</li> </ul>



NAME	DESCRIPTION	OTHER DATA / IMPACTS
<p><b>HONDURAS</b></p> <p><b>Cooperations:</b></p> <p>Feasibility Studies for the Construction of Hydraulic Infrastructures in the Lower Basin of the Rio de Janeiro River Choluteca.</p> <p><b>Amount: US\$3.5 million</b></p> <hr/> <p>Feasibility Study for the National Earth Dams Program in Honduras.</p> <p><b>Amount: US\$5.83 million</b></p> <hr/> <p>Pre-investment studies for the Final Design of the Choluteca River Collector and Treatment Plant.</p> <p><b>Amount: US\$1.39 million</b></p> <hr/> <p>Structuring of the Program to Improve Water and Sanitation Services in Intermediate Cities of Honduras.</p> <p><b>Amount: US\$150,000.00</b></p>	<p>Pre-feasibility studies have been completed and the Government of the Republic of Honduras has also requested support for El Tablón.</p> <hr/> <p>Implementation of works related to flow regulation, flood control, water supply for productive purposes and human consumption, thus creating new irrigation systems and technology and contributing to the development of agriculture, aquaculture, better access to water, among other benefits.</p> <hr/> <p>Re-establish effective wastewater collection services in the Municipality of the Central District (MDC) and treat 100% of the wastewater collected in the 8.8 kilometer zone of influence of the Choluteca River collector, in order to eliminate the risk of spillage of raw sewage at 11 points along the river, which could cause waterborne diseases and environmental problems.</p> <hr/> <p>The program will be based on improving water and sanitation services in 7 intermediate cities with investment plans and long-term financing options, in order to make it a model to be implemented nationwide.</p>	<p><b>Multipurpose projects include the following:</b></p> <ul style="list-style-type: none"> <li>• 2 regulating dams.</li> <li>• Water system for irrigation in Papalon.</li> <li>• Clean water supply in Choluteca.</li> <li>• River regularization and flood control works.</li> <li>• It is expected to benefit 140,000 inhabitants in the city of Choluteca.</li> </ul> <hr/> <p>The studies for the construction of five dams will achieve flow regulation and strengthen the capacity to mitigate damages in case of floods and supply water for human consumption and irrigation for production: Jalán River - Juticalpa, Olancho, Choluteca River (Hondo River) - Central District, Francisco Morazán and Guangelolo River - Cane, La Paz, Aguán River and Quebrada Queiebramontes. By 2025, it is estimated that these works will benefit at least 220,000 inhabitants of the area.</p> <hr/> <p>The works of these studies will benefit 1,444,085 inhabitants of the area of influence. The studies are under review by the executing agency.</p> <hr/> <p>Each of the 7 cities in the program will have its diagnosis and investment plan: Siguatepeque, La Ceiba, La Esperanza, Intibucá, Choloma, Tocoa and Santa Rosa de Copan.</p>

NAME	DESCRIPTION	OTHER DATA / IMPACTS
<p><b>HONDURAS</b> </p> <p>Program for access to clean water and sanitation services for the development of the population established in the city of La Paz in the department of La Paz.</p> <p><b>Amount: US\$9.4 million.</b></p>	<p>Improve conditions for the efficient provision of clean water and sanitation services in the urban area of the Municipality of La Paz for a population of 29,586 inhabitants.</p>	<p><b>Clean water: 24,035 initial users for the service.</b></p> <ul style="list-style-type: none"> <li>• 19.5 km of water pipelines from the source to the home distribution plant.</li> <li>• Treatment Plant, capacity of 100 l/s and desanders.</li> <li>• Laboratory for water quality control.</li> <li>• 600,000 gallon storage tank.</li> <li>• Supply and installation of 4,800 micro-meters.</li> </ul> <p><b>Sewerage in 4 neighborhoods: 11,500 users</b></p> <ul style="list-style-type: none"> <li>• Construct and equip a 41.8 km collection and sub-collection network, a 394.65 meter pumping station and line.</li> <li>• 528 manholes, 6,000 linear meters of service connections.</li> <li>• Treatment plant (2 oxidation ponds).</li> </ul>
<p><b>NICARAGUA</b> </p> <p>Improvement and Expansion of Clean Water Supply and Sanitation Systems in 19 Cities.</p> <p><b>Amount: US\$100.1 million</b></p>	<p>It consists of a set of investments aimed at improving and expanding clean water and sewerage services in 19 cities in the country and strengthening ENACAL's management in the administration, operation and maintenance of the services it provides to the population.</p> <p>99% progress.</p>	<ul style="list-style-type: none"> <li>• <b>People Benefited:</b> 580,000 people who lacked clean water service and approximately 270,000 Nicaraguans have improved sanitary sewerage services in urban areas.</li> <li>• <b>Water component:</b> <ul style="list-style-type: none"> <li>■ Construction of 3 clean water pumping stations.</li> <li>■ 170 km of distribution network.</li> <li>■ 56 km of pipeline network.</li> <li>■ 9,000 new connections and 6,000 rehabilitated connections.</li> <li>■ Enabling of 20 wells, 15 tanks, 2 catchments built.</li> </ul> </li> <li>• <b>Sanitation component:</b> <ul style="list-style-type: none"> <li>■ Three wastewater treatment plants have been installed.</li> <li>■ Construction of 2 pumping stations for sanitation.</li> <li>■ Construction of 46 km of sewage network and 7 km of collector sewers.</li> <li>■ Creation of 5,000 new connections and 550 manholes.</li> </ul> </li> <li>• <b>Jobs: 992 generated</b></li> </ul>

NAME	DESCRIPTION	OTROS DATOS /IMPACTOS
<b>NICARAGUA</b> 		
<p>Bluefields Sanitation.</p> <p><b>Amount: US\$38.8 million.</b></p>	<p>Consists of the construction of the sanitary sewer system and treatment plant for the city of Bluefields, which will allow for the collection, conveyance and treatment of wastewater generated in the city.</p> <p>44% progress.</p>	<ul style="list-style-type: none"> <li>• Household connections: 5,591</li> <li>• Generation of jobs: 307</li> <li>• Employment for women: 37</li> <li>• Construction of 13 pumping stations and 43.45 km for the sewerage network.</li> <li>• Construction of wastewater treatment plant.</li> <li>• Reduce contamination of surface and groundwater bodies in the city and Bluefields Bay.</li> </ul>
<p>Improvement and Expansion of Clean Water and Sanitation Systems in 7 Cities.</p> <p><b>Amount: US\$251.5 million</b></p>	<p>Includes the improvement and expansion of sanitary sewerage systems and clean water systems in 7 cities in the country.</p> <p>24% progress.</p>	<ul style="list-style-type: none"> <li>• Persons benefited: 265,628</li> <li>• Household connections: 57,231</li> <li>• Job generation: 2,286</li> <li>• Employment for women: 115</li> </ul>
<p>Sustainability Program for the Rural Water and Sanitation Sector.</p> <p><b>Amount: US\$30.00 million</b></p>	<p>Expansion and/or rehabilitation of water and sanitation systems in rural areas, as well as installation of equipment and improvements in water quality.</p> <p>82.34% progressThe program proposes the rehabilitation and expansion of the sanitation systems in the cities of Managua, Ciudad Sandino and Tipitapa, as well as the clean water system in the city of Tipitapa.</p> <p>In compliance with conditions prior to the first disbursement.</p>	<ul style="list-style-type: none"> <li>• Persons benefited: 33,528 (50% women).</li> <li>• Jobs generated: 4,391 temporary jobs.</li> <li>• Communities benefited: 10.</li> </ul>
<p>Lake Managua Environmental Sanitation Project on the South Shore of Lake Managua.</p> <p><b>Amount:US\$151.4 million</b></p>	<p>The program proposes the rehabilitation and expansion of the sanitation systems in the cities of Managua, Ciudad Sandino and Tipitapa, as well as the clean water system in the city of Tipitapa.</p> <p>In compliance with conditions prior to the first disbursement.</p>	<ul style="list-style-type: none"> <li>• Persons benefited: 430, 386 by the year 2033.</li> <li>• Direct temporary jobs: 944.</li> <li>• Permanent jobs: 57.</li> </ul>
<b>COSTA RICA</b> 		
<p>Water Supply System for the Middle Tempisque River Basin and Coastal Communities (PAACUME).</p> <p><b>CABEI investment: US\$425 million</b></p>	<p>Construction of hydraulic, civil and mechanical structures for the generation and water for irrigation, water for human consumption and for the future power generation in the Chorotega region.</p>	<ul style="list-style-type: none"> <li>• Total beneficiaries: 700,746 people.</li> <li>• Direct jobs: 20,573.</li> </ul>

NAME	DESCRIPTION	OTROS DATOS /IMPACTOS
<p><b>COSTA RICA</b> </p>		
<p>Water Supply Program for the San José Metropolitan Area, Urban Aqueducts II and Juanito Mora Sanitary Sewage System of Puntarenas.</p> <p><b>CABEI investment: US\$154.5 million</b></p>	<p>The program includes more than 15 projects such as improvements to the supply systems of the Cóbano, Integral de Los Chiles, Ojo de Agua, Poasito de Alajuela, Puerto Jiménez and Pérez Zeledón aqueducts; as well as the supply systems of the aqueducts of the West Zone of San José, Jesús María and San Mateo, San Ramón-Palmare and Acueducto La Paz. Also the improvement of the water supply systems of San Pedro and San Pablo de Turubares, the Juanito Mora sanitary sewerage and wastewater treatment plant, the expansion and improvements of the Bagaces Aqueduct, the Buenos Aires Integrated Aqueduct and the El Guarco Water Treatment Plant.</p>	<ul style="list-style-type: none"> <li>• Beneficiaries :300,000 people.</li> <li>• 16 Cantons.</li> </ul>
<p>Non-Revenue Water Reduction and Energy Efficiency Project (RANC-EE).</p> <p>CABEI investment: US\$130million</p>	<p>Reduction of unaccounted-for water, improvement in the competitiveness of service provision and contribution to the sustainability of water resources in the GAM and peripheral systems.</p>	<ul style="list-style-type: none"> <li>• Increase of the network by more than 864.5 km of pipelines.</li> <li>• 876 macro-measuring stations.</li> <li>• 347,360 micro-meters.</li> </ul>
<p>Water Supply Program for the Metropolitan Area of San José, Urban Aqueducts and Sanitary Sewerage of Puerto Viejo de Limón (A&amp;A).</p> <p><b>CABEI investment: US\$103.05 million</b></p>	<p>The program includes 58 projects such as the construction of the water treatment plant and bridge in San Isidro de Pérez Zeledón, Liberia II, Nicoya II, Puerto Viejo sewer system, improvements to the Quepos-Manuel Antonio aqueduct, expansion and improvements to the Ciudad Cortés aqueduct, clean water supply improvements for the northeast area of San José, line II.</p>	<ul style="list-style-type: none"> <li>• Expected beneficiaries 95,800 people.</li> <li>• Improvement of 24 aqueduct and sewerage systems.</li> <li>• Expansion of installed capacity.</li> <li>• Increases in supply volume by 48.9 million m<sup>3</sup>/across all systems.</li> </ul>
<p>Sewerage and Flood Control Program for Limón.</p> <p><b>CABEI investment: US\$55.1million</b></p>	<p>National Ground Water, Irrigation and Drainage Service (Senara) : Construction of flood control system in Limoncito.</p> <p>Costa Rican Institute of Aqueducts and Sewage Systems (A&amp;A): Expansion of the sanitary sewerage system in central Limón.</p>	<ul style="list-style-type: none"> <li>• Expected beneficiaries: more than 65,000 people.</li> </ul>
<p>Non-reimbursable technical cooperation for feasibility studies of a sanitation system in Liberia.</p> <p>Korea-CABEI Partnership Single Donor Trust Fund (KTF) Investment: US\$ 600,000</p>	<p>Conduct feasibility studies for the modernization and expansion of the wastewater treatment plant and existing sewerage systems in Liberia, Guanacaste province.</p>	<ul style="list-style-type: none"> <li>• Expected beneficiaries: more than 84,000 people.</li> </ul>



NAME	DESCRIPTION	OTHER DATA / IMPACTS
<p><b>PANAMÁ</b> </p> <p>Sanitation Program for the Districts of Arraiján and La Chorrera.</p> <p><b>Amount: US\$100.0 million</b></p>	<p>Project for the adequacy and construction of the Sanitary Sewage Systems for the collection, conduction and final treatment of sewage generated in the Districts of Arraiján and La Chorrera.</p>	<ul style="list-style-type: none"> <li>• Beneficiaries: 220,779 (Arraiján), 89,780 (Chorrera).</li> <li>• More than 700 jobs, 33% of which are held by women.</li> </ul>
<p><b>DOMINICAN REPUBLIC</b> </p> <p>Montegrande Dam Project</p> <p><b>Amount: US\$249.6 million</b></p>	<p>It consists of the construction of a dam for the generation of energy and clean water, thus promoting the development of the southern part of the country.</p>	<ul style="list-style-type: none"> <li>• Flood control in the area and increased water available for irrigation.</li> <li>• Water supply to the existing water treatment plant and distribution network of the Barahona-Bahoruco-Independencia Regional Aqueduct, which provides clean water to 51 communities in the area.</li> <li>• Increased water available for irrigation of the different agricultural activities in the sector where the work is being carried out, which will result in 26,588.77 hectares benefiting from irrigation canals.</li> <li>• Development of aquaculture activities and tourism.</li> </ul>

**ALL CABEI-FINANCED PROJECTS ARE IN LINE WITH AND CONSIDER HUMAN RIGHTS, SOCIAL PARTICIPATION AND GENDER EQUITY, WITH ENVIRONMENTAL AND SOCIAL CARE, AS WELL AS CLIMATE VARIABILITY AND CLIMATE CHANGE, AS CROSS-CUTTING ISSUES.**



## COMMITTED TO CARING FOR WATER THROUGH ENVIRONMENTAL MANAGEMENT

CABEI is consistent with the care of water resources, which is why in the last five years it has achieved a reduction of 7,210 m<sup>3</sup> in water consumption in its building-type facilities. This amount of water saved could supply the daily consumption of 41,919 people, considering that the average daily consumption in Latin America is 172 liters.

### GOOD PRACTICES

- In CABEI buildings in Nicaragua, Guatemala and El Salvador, rainwater is collected to irrigate the green areas of these facilities.
- Installation of low water consumption toilets, urinals, sinks and dishwashers.
- Internal awareness campaigns to promote resource saving.

CABEI has an ISO 14001:2015 Environmental Management System (EMS) certification for its operational and administrative activities in its



buildings in Honduras (Headquarters) and El Salvador. It is currently in the process of expanding its facilities in Guatemala, Nicaragua and Costa Rica, with water conservation as one of its main objectives.

These actions are developed within the framework of CABEI's institutional strategy and as part of its commitment to support the fulfillment of the goals of its member countries in Sustainable Development Goal 6, which implies guaranteeing the availability and sustainable management of water and sanitation for all.