Impact Report 2024

blueEnergy Nicaragua

www.blueenergygroup.org

Contributing to a more equitable and sustainable world

Contenido

Introduction

This Annual Impact Report 2024 of blueEnergy Nicaragua presents the main achievements and progress made during the last year in our actions aimed at the sustainable development of vulnerable communities in the country. Through comprehensive projects focused on food and nutritional security, access to water and sanitation, hygiene promotion for health and the use of renewable energies, we work to improve the living conditions of families, schools and communities.

The progress achieved in 2024 has positively transformed the lives of many people, reaffirming our commitment to building a more just, resilient and sustainable world. This report summarizes the most outstanding results of our initiatives and reinforces our mission to continue promoting the well-being and integral development of the communities with which we work.

A word from the Country Management

Dear friends and partners of blueEnergy Nicaragua:

During 2024, we reaffirmed our commitment to the most vulnerable communities, promoting concrete actions in water, sanitation and hygiene, renewable energy and food security with an agroecological approach. It has been a period of challenges, learning and, above all, transformation in the communities where we work. Thanks to the collective effort, we continue to advance in our mission to promote sustainable development, inclusion and climate resilience in the Autonomous Region of the Southern Caribbean Coast and beyond.

- Water, Sanitation and Hygiene: We built family eco-toilets, delivered water filters, rehabilitated school toilets and drilled a well that now supplies rural families. We promote good hygiene and health practices.
- Renewable Energies: We brought light for the first time to the indigenous community of Rama Maneland, with solar home and community systems and street lighting on trails.
- Food Security and Agroecology: We established school and family gardens, certified promoters in biointensive farming, inaugurated a seed house, supported family businesses and promoted resilient agricultural practices.
- Community Centers for Adaptation to Climate Change: We improved school infrastructure, established nurseries and reinforced environmental education and community reforestation.

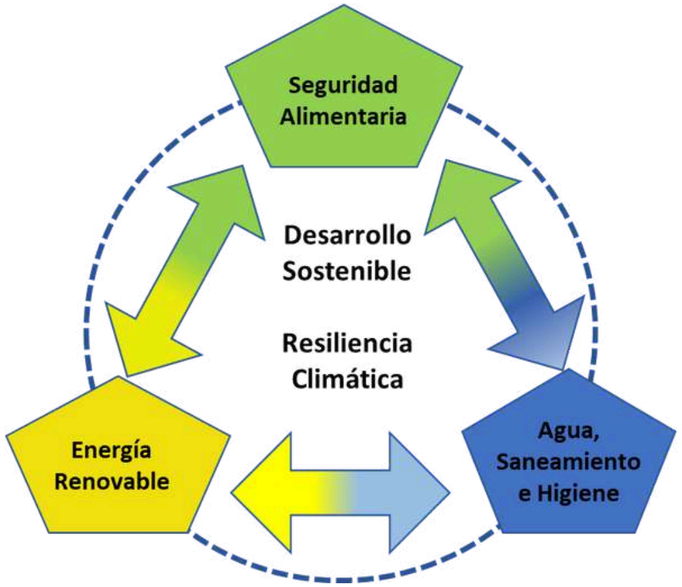
These achievements would not have been possible without the active participation, commitment and enthusiasm of the communities we work with. We are deeply grateful to every family, student, leader and volunteer who joined us with energy, dedication and hope. Thank you for opening your doors, sharing your knowledge and walking with us. This year has been a clear demonstration that when we work together, changes are real and sustainable.

With gratitude,

Sandra Pavón

Country Director
blueEnergy Nicaragua

Our Approach



blueEnergy is an international non-profit organization, with actions directed in the Autonomous Region of the South Caribbean Coast (RACCS) of Nicaragua, working on issues of Water, Sanitation and Hygiene, Renewable Energy, Food and Nutritional Security, capacity building.

blueEnergy aims to improve the lives of families in vulnerable conditions in the context of a changing climate. blueEnergy's programs are part of the water, energy and food security nexus, which is essential for sustainable development. Demand for all three is increasing, driven by population growth, rapid urbanization, dietary changes and economic needs.

The linkages between these areas therefore require an integrated and appropriate approach to ensure access to water, food security and sustainable energy production in the context of resilience to climate change.
We define development through research processes to analyze existing solutions, what has worked, what has not and why. We then develop pilot projects and adapt global best practices to the social, environmental and economic realities in the local context.

We developed the Climate Ready Schools Initiative, which integrates the three programs to strengthen schools in the Caribbean and Pacific Coast of Nicaragua in the context of climate change. Improvements in water and sanitation infrastructure, solar-powered electricity, food-producing gardens and regenerative practices to strengthen the soil combine to strengthen these schools as community spaces and centers of refuge from disasters.

Our Approach

Community Development to improve the quality of life in vulnerable communities through integrated solutions that combine access to safe water, sanitation, renewable energy and food security. With a focus on resilience to climate change, technologies adapted to the local context are implemented and technical and organizational capacities are strengthened to ensure sustainability. These actions contribute to ecological regeneration, self-sufficiency and community health, fostering biodiversity and empowering families to face global challenges.

Capacity building to empower families and communities through knowledge management and technical capacity building. Through a participatory approach, we encourage the exchange of experiences among experts, local and community technicians, promoting autonomy and self-sufficiency. Actions include training adapted to the local environment in food safety, water, sanitation, hygiene and renewable energy, complemented by practical support. This model seeks to multiply good practices and ensure the sustainability of the solutions implemented, contributing to integral development and community resilience.

What We Do

Food and Nutritional Security: With the objective of improving access to nutritious food and strengthening health through the implementation of agroecological practices in the context of climate change and extreme weather events.

Climate-Smart Schools: integrates the three themes to strengthen schools in the Caribbean and Pacific Coast of Nicaragua in the context of climate change, to strengthen schools as community spaces and centers of refuge from disasters and also represent a site for exchange and learning about best practices open to the community.

Water, Sanitation and Hygiene: increase access to safe water, sanitation services and hygienic conditions to strengthen health. Water and sanitation infrastructure solutions implemented in partnership with the community.

Capacity Building: Model families, community promoters, students and the community with emphasis on women and children. The objective is to provide capacities and exchange knowledge to increase autonomy and self-sufficiency for community members to lead their own development, through participatory methodologies respecting local knowledge and experiences.

Renewable Energy: to provide access to clean, renewable and non-polluting energy to isolated communities without connection to the national grid. Renewable energy solutions designed and adapted to the local environment.

Noda Model Center: A space open and demonstrative to the community for training and exchange of knowledge, knowledge and practices in our thematic areas. The Noda Model Center is the only Biointensive Agroecological Center certified in the South Caribbean of Nicaragua by the network of Biointensivists of Nicaragua.

2024 Scope

3,405

New Beneficiaries

- 103 protagonists Food and Nutrition Security
- 147 Renewable Energy players
- 1,059 Water, Sanitation and Hygiene players
- 2,096 people trained

Our actions contribute to community development, through the establishment of technologies to improve the health of families and the resilience of their community, with a focus on adaptation to climate change, in the face of the changing global context, guaranteeing access to the most vulnerable families in the region.

We take advantage of our knowledge and alliances to adapt and strengthen our work methods for the execution of actions with our protagonists, focused on the exchange of experiences and learning with the community, promoting knowledge management as a tool for the development of the communities.

20 Years of Impact

Contributing to a more equitable and sustainable world

72,183

Direct Beneficiaries

53,827

Beneficiaries of technology in Water, Sanitation and Hygiene, Renewable Energies, Food and Nutritional Security.

18,356

Trained Persons

20 Years of Impact

Water, Sanitation and Hygiene

- 124 Latrines and Ecobaths
- 4 Waste separation stations
- 126 wells
- 1,435 Water filters
- 11 Restrooms rehabilitated in schools
- 7 Water collection systems
- 88 Hand washing systems
- 74 Grey water treatment systems
- 42 Water and Sanitation Committees
- 1 Multipurpose sports court at CCACC
- 700 Hygiene and cleaning kits

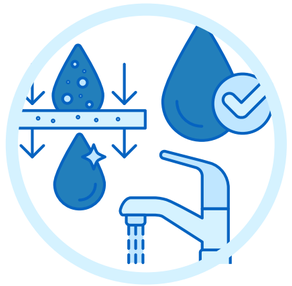
Food and Nutrition Security

- 27 Model Families
- 95 Family Gardens
- 96 Garden Implementation Plans
- 10 Nurseries
- 1 Seed Bank
- 7 Climate Change Adaptation Plans
- 7 Entrepreneurship Initiatives Supported
- 5 Community Development Plans
- 6 CCACC
- 57 Garden Kits
- 22 Community Promoters
- 1 Dining Kitchen at CCACC
- 11 Certified Biointensive Teachers
- 1 virtual learning platform

Renewable Energy

- 268 Solar lanterns
- 219 improved cookstoves
- 260 Individual and community solar systems
- 5 Solar water pumping systems
- 1 Biodigester system

Water, Sanitation, and Hygiene



2,267 beneficiaries

549 women
1,214 children
419 men

- 44 water filters in the community of Villa Nueva and the Santa Rosa neighborhood, Punta Masaya sector.
- 1 well rehabilitated in the Santa Rosa School, Bluefields.
- 1 well constructed in the Nora Rigby School, Caño Azul community, Bluefields.
- 10 family ecobaños in the community of Villa Nueva and the Santa Rosa neighborhood, Punta Masaya sector.
- 2 water treatment systems.
- 4 toilets rehabilitated in schools.
- 5 hand washing stations
- 1 water storage system improved at Santa Rosa School, Bluefields.

- 8 training workshops at the community level
- 9 sensitization events
- 1 demographic map of Villa Nueva, Bluefields
- 1 pre-feasibility study for the identification of ASH technologies in Villa Nueva.
- 145 follow-up visits to technologies
- 1 children's CAPS formed
- 145 follow-up visits

Water, Sanitation, and Hygiene

DDuring 2024, through the Water, Sanitation and Hygiene program, actions were carried out that directly benefited 2,267 people, including 549 women, 1,214 children and 419 men. This comprehensive effort was carried out in the communities of Villa Nueva, the Santa Rosa neighborhood (Punta Masaya sector) and the Caño Azul community, strengthening local capacities, improving the quality of life and strengthening resilience in the face of climate change.

At the family level, 44 water filters were installed and 10 integral ecobathrooms (dry ecological toilets) were built, guaranteeing access to safe water and decent, adequate and safe sanitary spaces. These actions not only prevent diseases, but also represent an important step towards healthier homes, aware of the responsible use of water and committed to the wellbeing of their members and the environment. A total of 145 follow-up visits were made to provide guidance on the proper use and maintenance of these technologies, and to reinforce good hygiene and water care practices for the benefit of health and the environment.

At the community level, 8 workshops and 9 awareness-raising events were held and 2 community studies were carried out. The Water and Sanitation Committees (CAPS) of Villa Nueva and Punta Masaya played a key role in the process, actively participating in the selection and accompaniment of the families involved in the ecobathrooms project. Together with the technical team, they led community visits that allowed for the proper identification of beneficiary households, strengthening CAPS leadership and the commitment to promote good practices for climate resilience.

Water, Sanitation, and Hygiene

At the school level, the conditions of several educational centers were improved through water and sanitation infrastructure improvements. For example, at the Centro Escolar Cristiano Los Andes (Villa El Carmen, Managua), toilets for girls and boys were rehabilitated; at the Santa Rosa School (Bluefields), toilets for girls and boys, well and rope pump, water storage and distribution system, septic tank were improved; at the San José School #1 (Villa Nueva, Bluefields), a sink, a bio-garden (gray water treatment system), septic tank were built and environmental awareness workshops were held. In addition, at the Nora Rigby School (Caño Azul) a well was built and a children's CAPS was formed, strengthening student leadership to promote good practices in water, hygiene and climate resilience.

Water, Sanitation, and Hygiene

Improving conditions in Community Centers for Adaptation to Climate Change: The Los Andes Christian School in Villa El Carmen, Managua has improved its sanitation infrastructure.



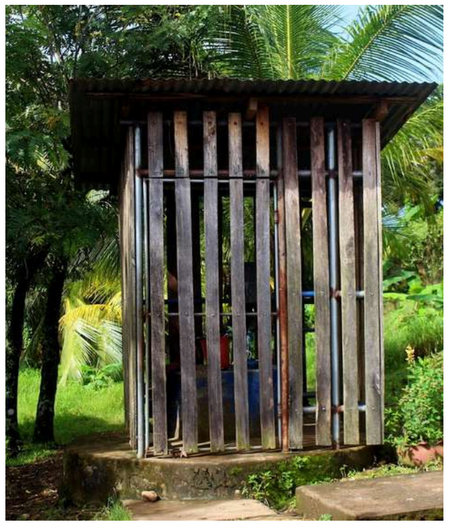






Water, Sanitation, and Hygiene

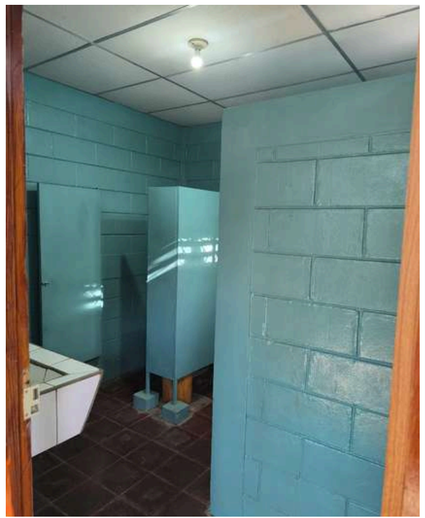
Improved conditions in Community Centers for Adaptation to Climate Change: The Santa Rosa School in Bluefields has improved its storage, sanitation and water systems infrastructure.









Water, Sanitation, and Hygiene

Construction of integral ecotoilets:
7 ecotoilets in the Santa Rosa neighborhood, Punta Masaya sector, Bluefields
3 ecotoilets in the Villa Nueva community, Bluefields

Water, Sanitation, and Hygiene

Introductory permaculture workshop and awareness actions to promote good hygiene and sanitation practices, protection of water resources, reforestation, integrated water management and integrated solid waste management, with the active participation of students, teachers and parents at the San José School #1 in Villa Nueva.

Water, Sanitation, and Hygiene

Follow-up and awareness-raising visits to key families to promote good hygiene and sanitation practices for health.

Site Visit with key partners for the selection of families benefiting from the ecobath technology: Ministry of Health, Bluefields Municipal Mayor's Office and Water and Sanitation Committees.

Water, Sanitation, and Hygiene

Success Stories

Erlinda Toruño, single mother of the Villa Nueva community
Protagonist of family ecobaño and water filter

I am Erlinda, I am 28 years old and I have been living in Villa Nueva for 18 years. I am a single mother of four children: two girls and two boys. The oldest is 14 years old, another girl is 7, another 5, and the youngest is 2 years old. I work as a domestic and also in the fields, cutting machetes and growing beans and yucca. I also help my sister with chores such as washing clothes and taking care of animals.

Before, I had to walk five to nine minutes to fetch water, either from the school or from a nearby pipe, to bathe, wash and cook. Six years ago, when I moved into my little house, I borrowed the church latrine. I used it for three years until I built one of my own a year and a half ago, although I didn't finish it.

With the eco-toilet installed, I am happy and grateful. My children and I can use it more safely, and I no longer have to send them far away to bathe. Since I have had the water filter, our health has improved: before, the children were constantly getting sick, but that has changed significantly. Now the water makes us feel safer and healthier.

Water, Sanitation, and Hygiene

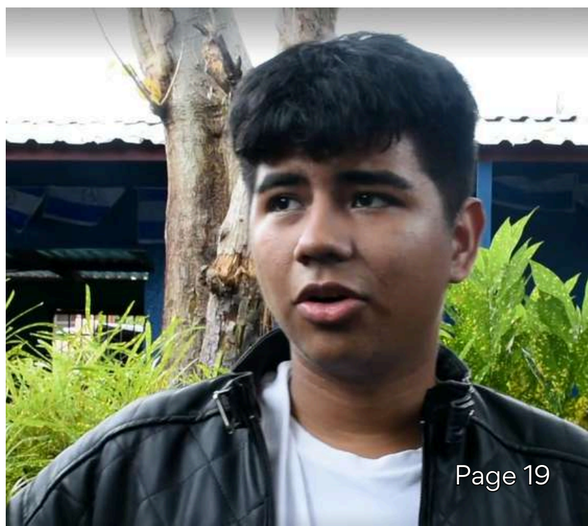
Success Stories

Lin Elena Díaz Vasquez, a student at Centro Escolar Cristiano Los Andes, highlighted the positive impact of the construction of new restrooms at her school. Before, she avoided using them because of their poor condition and insecurity. Now, with renovated spaces, doors, sinks and pleasant colors, she feels more comfortable and safer. For her, these changes mean dignity and well-being for all the girls. “Now I feel better going down to the bathroom, there is more security and privacy for us,” Lin said.

Álvaro José, a tenth grade student, highlighted the transformation of the school bathrooms, noting that before they were uncomfortable and not very private, since girls had to enter the boys' bathroom to turn on the light. With the new infrastructure, each restroom has its own switch, better hygiene and doors that guarantee privacy. “Before, it was uncomfortable because the bathrooms had no doors and the girls had to turn on the light in the boys' bathroom; now everything is better and more hygienic,” said Álvaro.







Food and Nutrition Security

965 beneficiares

396 women
208 children
361 men

- 12 new family gardens established and equipped
- 12 family garden kits
- 6 family nurseries and 1 community nursery
- 7 entrepreneurship initiatives supported
- 1 permacultural design implemented in the San José Educational Center #1 in Villa Nueva and in the Nora Rigby School in the Caño Azul community, Bluefields
- 1 garden plan implemented in the CAB bE
- 1 recognition of a new Biointensive Agroecological Center in Finca Citalapa

- 18 training workshops
- 7 business plans developed and presented by entrepreneurs
- 91 follow-up visits to home gardens
- 12 garden implementation plans
- 20 community promoters strengthened
- 15 awareness-raising events and action days
- 8 certified bio-intensive teachers

Food and Nutrition Security

In 2024, through the Food and Nutritional Security Strategy, actions were developed with families and schools to strengthen knowledge and capacities for the production of healthy food, focused on the implementation of agroecological practices. During this phase, twelve new family gardens, six family nurseries and one community nursery were established and equipped, thus strengthening local food production. The technical team made more than ninety follow-up visits and supported the establishment of the gardens, following the permaculture designs and garden implementation plans made in a participatory manner with the families, allowing the knowledge acquired in workshops to be reinforced, including permaculture, biointensive cultivation methods, nutrition, food conservation and transformation.

At the school level, a permacultural design was implemented in the San José Educational Center #1, in Villa Nueva, and in the Nora Rigby School, in the community of Caño Azul, Bluefields, in a participatory manner with students, parents and teachers. These spaces strengthened the capacities of students, teachers and families, while promoting the exchange of experiences, which motivated some families to replicate them in their homes.

In the sustainable entrepreneurship component, seven local initiatives were promoted after the presentation of their business plans, which led to the implementation of a seed fund for equipment and the start-up of their businesses; in addition, their knowledge was strengthened through workshops on finance, accounting and marketing.

Another outstanding achievement was the certification of 8 biointensive teachers in the Biointensive Cultivation Method and the recognition of the Citalapa Farm as a Biointensive Agroecological Center, following the certification of its teachers.

blueEnergy's NODA Model Center in Bluefields continued to be open to the community as a space for the demonstration of agroecological technologies and practices, serving as a meeting point for the exchange of seeds, plants and knowledge. Awareness-raising events were promoted in this space and a new nursery of ornamental and forest species was built, thus strengthening the link between agroecological production and environmental regeneration.

One promoter family from the community of Esconfran, Bluefields stood out for their commitment and community leadership, actively promoting agroecology by example. From their home, this family opened the doors to others in the community, sharing experiences, demonstrating good practices with other families.

Food and Nutrition Security

12 families from Bluefields have been trained and equipped to establish their Caribbean gardens for agroecological production and cultivation of food, medicinal and ornamental plants.






Food and Nutrition Security

Community promoters open the doors of their homes to exchange experiences and learning, exemplifying the actions and showing the results of the implementation in their gardens.

Food and Nutrition Security

Certification of 8 basic level teachers in the Biointensive Cultivation Method: Finca Citalapa (6), blueEnergy (2). Certification of the Citalapa Farm as a Biointensive Agroecological Center (CAB). Inauguration of seed house, with the donation of a seed dryer. Capacity building in beekeeping for blueEnergy technicians at Finca Citalapa.

Food and Nutrition Security

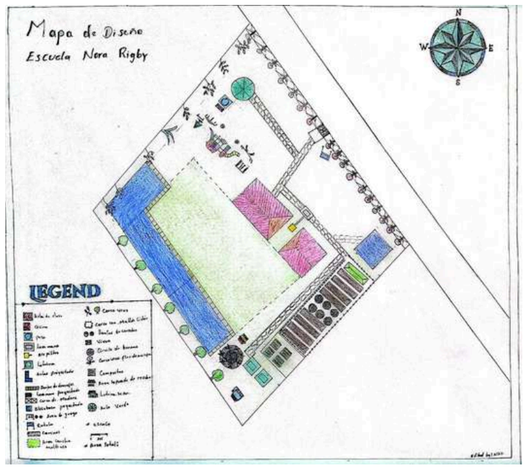
Improvement of conditions in Community Centers for Adaptation to Climate Change: The San José School #1 in the community of Villa Nueva, established a school garden that has among its components a nursery with more than 1,000 forest plants for the Drinking Water Committee to reforest the community, especially the areas near the water sources.






Food and Nutrition Security

Improvement of conditions in Community Centers for Adaptation to Climate Change: Construction of a drilled well in the Nora Rigby School in the Caño Azul community, supplying safe water to the school and nearby families. Development of a participatory permacultural design and establishment of a school garden.



Food and Nutrition Security

Awareness-raising days, action days and reforestation days in schools and communities.







Food and Nutrition Security

Construction of a Forest Nursery at the blueEnergy Centro Modelo Noda.
The participating families who visit the Center bring trees to plant in their homes and areas near their communities.







Food and Nutrition Security

Establishment of 7 Family Businesses with Business Plans and Equipment Provided. They Are Being Supported and Advised for Their Strengthening.

Food and Nutrition Security

Centro Modelo Noda: An Open Space for the Community to Share Experiences and Best Practices

Exchange of Experiences with Agroforestry Engineering Students from URACCAN University

Visit from Two Groups of the Christadelphian Meal a Day Fund of the Americas

Food and Nutrition Security

Actions to improve and maintain the vegetable garden areas of the Noda bE Model Center.

Cleaning and removal of beds, crop establishment.

Harvests from the garden are distributed among blueEnergy collaborators. They are used to elaborate and experiment preparations that are shared with the team.

Food and Nutrition Security

Success Stories

Juan Rodriguez and Verónica García, Encurtidos y Chileros Don Juan

Juan Rodriguez and his wife Verónica García have demonstrated that teamwork strengthens. Juan is one of the entrepreneurs in the entrepreneurship segment, he has a physical-motor disability.

In her arms, he and his wife established their family business of chili peppers and pickles, where she leads the production process. Thanks to her effort and vision, they diversified into the production of artisanal hibiscus flower wines, inspired by the interest of customers and friends. Recently, they were able to produce more than 60 bottles, ready for distribution on demand, opening new opportunities to grow as entrepreneurs.

Alvaro Osorio Garcia, basic level teacher in the Biointensive Method, the youngest teacher to be certified in Nicaragua.

Álvaro Osorio García, has become the youngest biointensive teacher in Nicaragua after completing his basic level certification process. A student at Centro Escolar Cristiano Los Andes and the son of field technicians from the Citalapa farm who have also become certified teachers, Alvaro is following in their footsteps by promoting ecological and sustainable agricultural practices. He is now part of an international network of teachers in biointensive agriculture and shares his knowledge with his peers, inspiring a shift towards more sustainable practices in his community.

Renewable Energy

147 beneficiaries

396 women
208 children
361 men

- 20 community solar systems installed in the Rama Maneland community.
- 19 solar home systems installed in homes in the Rama Maneland community,

- 19 training sessions for families on the use of the home systems installed in the Rama Maneland community
- 2 community technicians trained in the maintenance of the solar systems.

Renewable Energy

Rama Maneland, an indigenous Rama community south of Bluefields, disconnected from the national power grid benefited from solar electrification systems for 20 families Installation of 2 community solar systems and 18 street lighting poles.

Renewable Energy

Success Story

Luciano John, indigenous Rama
Protagonist solar home system in Rama Maneland

Luciano John, who has lived in Rama Maneland for 17 years, is an indigenous man, originally from Rama Cay Island, who emigrated due to the overpopulation of the island.

"It is a big change that we feel, we are grateful that they take us into account, before we used to use a candle, it will be our first Christmas with energy. This is a blessing for me, we used to live in the dark".

Success Story

Support for Sports and Cultural Activities

San Pedro School Volleyball Team – National Mini Volleyball Champions

Delivery of Sports Uniforms for the Team

Championship Celebration Event and Award Ceremony for the National Champions of San Pedro School

Financial Repoirt

blueEnergy
Balance Gneral
Al 31 de Diciembre 2024
Cifras expresadas en Cordobas

		2024
ACTIVO		
ACTIVO CIRCULANTE		
Efectivo en caja y Bancos	C$	3,081,020.00
Cuentas por Cobrar	C$	2,289.09
TOTAL ACTIVOS CIRCULANTE	**C$**	**3,083,309.09**
ACTIVOS FIJOS		
Terrenos	C$	3,495,217.73
Edificios	C$	6,762,399.67
Depreciacion Acumulada Edificios	-C$	958,006.78
TOTAL ACTIVOS FIJOS	**C$**	**9,299,610.62**
OTROS ACTIVOS	C$	38,032.22
TOTAL ACTIVOS	**C$**	**12,420,951.93**
PASIVO		
PASIVO CIRCULANTE		
Proveedores y Otros	C$	221,183.65
TOTAL PASIVOS	**C$**	**221,183.65**
PATRIMONIO		
Patrimonio	C$	744,544.43
Excedente Acumulados	C$	9,744,028.83
Excedente o deficit del Periodo	C$	1,711,195.02
TOTAL PATRIMONIO	**C$**	**12,199,768.28**
TOTAL PASIVO y PATRIMONO	**C$**	**12,420,951.93**

blueEnergy
Estado de Resultado
Al 31 de Diciembre 2024
Cifras expresadas en Cordobas

		2024
INGRESOS		
Donaciones nacionales		
Consorcio Eolico Amayo Fase II	C$	896,633.62
Consorcio Eolico Amayo S.A	C$	1,611,271.20
Empresa Energética Corinto, LTD	C$	421,165.95
TIPITAPA POWER COMPANY, LTD.	C$	1,289,002.56
Alcaldía Municipal de Bluefields	C$	369,071.99
Total Donaciones nacionales	**C$**	**4,587,145.32**
Donaciones extranjeras		
blueEnergy Estados Unidos	C$	8,330,571.70
blueEnergy Francia	C$	2,408,334.87
Total Donaciones extranjeras	C$	10,738,906.57
Total Donaciones	**C$**	**15,326,051.89**
Otros Ingresos		
Reembolsos Subsidios INSS	C$	83,414.04
Productos Financieros	C$	7,008.81
Otros Ingresos	C$	132,119.94
Total Otros Ingresos	C$	222,542.79
TOTAL INGRESOS	**C$**	**15,548,594.68**
EGRESOS		
GASTOS DE ADMINISTRACION	C$	8,623,619.78
Salarios y Gastos relacionados	C$	6,531,398.24
Arriendo y servicios publicos	C$	438,491.23
Suministros de oficina (Alimentos, cafeteria, limpieza, papeleria y)	C$	188,894.56
Mantenimiento y Reparaciones	C$	44,755.16
Otros Gastos de Administracion	C$	1,420,080.59
GASTOS DE OPERACIÓN	C$	4,797,549.90
Contratos de servicios	C$	1,572,601.98
Materiales y Equipos no Capitalizados	C$	2,001,714.59
Gastos de viajes y reuniones	C$	1,223,233.33
OTROS GASTOS	C$	416,229.98
Depreciacion de Edificios	C$	338,120.04
Perdida Cambiaria	C$	78,109.94
TOTAL GASTOS	**C$**	**13,837,399.66**
EXCEDENTE O PERDIDA DEL PERIODO	**C$**	**1,711,195.02**

Donors

AMAYO

Tipitapa Power Company

Corinto
Empresa Energética Corinto

Meal-a-Day

FONDATION GROUPE EDF

CDC DEVELOPPEMENT SOLIDAIRE

Sense Foundation Brussels

eurofins

Fondation RAJA Danièle Marcovici
Agir pour les femmes

Fondation VEOLIA

LSI
Lycée de la Solidarité Internationale

L'eau de Saint-Omer

Caisse des Dépôts
Développement solidaire

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