

A scenic landscape of rolling green hills with scattered palm trees under a cloudy sky. The hills are covered in lush green grass, and the sky is filled with soft, white clouds. The overall atmosphere is peaceful and natural.

We transform the present to ensure a sustainable and fair future. Together, we sow hope and cultivate positive change.

# ANNUAL REPORT

**ECOCEANOS**  
CORPORATION

Dear Partners, Collaborators and Communities,

As we conclude another year of joint efforts, we are deeply grateful for your commitment and confidence in our work. Thanks to your support, we have been able to make significant progress in the search for a more sustainable future for our planet.

Together, we have faced the challenges of climate change, promoting sustainable agricultural practices, driving the transition to renewable energy and fostering the conservation of our forests. We have worked tirelessly to protect biodiversity and ensure access to natural resources for future generations.

This year, we have made remarkable progress in; restoration of degraded ecosystems, implementation of energy efficiency projects, strengthening the capacities of local communities to adapt to climate change and empowerment of indigenous women heads of household. These achievements are a testament to our collective ability to make a positive impact on the world.

However, we are aware that the road to a sustainable future is still long and requires continuous effort. The challenges we face are complex and require innovative and collaborative solutions.

That is why we renew our commitment to work tirelessly to build a more just and equitable world, where economic development goes hand in hand with environmental protection. We invite all our partners to join us in this important mission.

Together we can make a difference.



## **MOST SIGNIFICANT PROJECTS COMPLETED DURING 2024**

### **COMPREHENSIVE RESTORATION AND SCIENTIFIC MONITORING OF MANGROVES FOR COASTAL PROTECTION IN THE GULF OF MORROSQUILLO**

This ambitious project, whose main objective was the restoration of 40 hectares of degraded mangroves, focused on addressing the underlying causes of deforestation and strengthening the critical ecosystem services that these areas provide. Throughout the project, advanced bioengineering techniques for reforestation were implemented, which included the use of native species selected for their resistance and ability to adapt to local conditions.

The use of state-of-the-art technology was a key component of the project. Drones equipped with high-resolution cameras and humidity sensors were used to carry out constant and detailed monitoring of the state of the reforested mangroves. This allowed for continuous assessment of plant health and the progress of the restoration process, ensuring that corrective action could be taken in real-time when needed.

Another key aspect of the project was the training of 60 local volunteers in environmental monitoring and sustainable resource management. These volunteers, from communities near mangrove areas, received comprehensive training in monitoring techniques, species identification, and sustainable management practices. The active participation of the community not only increased the effectiveness of the project, but also fostered a sense of belonging and responsibility towards mangrove conservation.

The results of the project were significant and varied. In terms of biodiversity, there was a 20% increase in the species of flora and fauna

present in the reforested area, including birds, fish and crustaceans that depend on the mangroves for their habitat and food. It also achieved a 35% reduction in coastal erosion, a critical problem that threatened coastal infrastructure and communities. This reduction was due to the natural ability of mangroves to stabilize the soil and protect against storm surges and waves.

A notable achievement of the project was the creation of a mangrove restoration model that can be replicated in other areas with similar problems. This model includes detailed guides on reforestation techniques, the use of technology for monitoring, and community engagement strategies. The replicability of the model ensures that other regions can also benefit from lessons learned and successful methods implemented.



## WATER PURIFICATION PROJECTS FOR MATECAÑA AND SACANA

The water purification project in the indigenous communities of Matecaña and Sacana began its implementation in 2024, with progress of 65% in Matecaña and 58% in Sacana, benefiting more than 300 families. In Matecaña, a significant challenge related to the detoxification of the well, contaminated by runoff from a meat processing company, whose liquid waste impacted the local ecosystem, was solved. The company corrected the leak, allowing the well to undergo active treatment. In addition, 12 workshops were held, benefiting 276 indigenous women leaders, who were trained in renewable energy, water treatment, entrepreneurship and environmental rights, promoting gender equality and community empowerment.

15 monocrystalline solar panels were installed on the roof of the educational institution, generating a monthly average of 54 kWh per panel, which guarantees the operation of the reverse osmosis system and the hydraulic pump. On the other hand, in Sacana, the water quality of the dam was evaluated through an exhaustive analysis that revealed high levels of turbidity and organic matter. In response, a pre-treatment with sediment filters and activated carbon was implemented, followed by the partial installation of the reverse osmosis system, which included membranes, a high-pressure pump and an ultraviolet light disinfection system, fully assumed by Ecoceanos. In this community, the first 50 liters of safe water were produced in November and stored in a tank closed, marking a milestone in access to safe drinking water.

In addition, 15 practical workshops and 4 participatory sessions were given, where 56 young people learned how to maintain the system, guaranteeing its long-term operation. In January, the installation of solar panels in Sacana is planned, which will ensure a continuous energy supply for the operation of the systems, consolidating the impact of the project on the health and quality of life of both communities.





## CONSTRUCTION OF COMMUNITY RAINWATER HARVESTING AND FILTRATION SYSTEMS IN CHINULITO

The project to build community rainwater harvesting and filtration systems has significantly transformed the lives of local communities, by providing a sustainable solution for access to clean water. The initiative focused on the implementation of infrastructures designed to collect, store and filter up to 300,000 liters of water per month, thus ensuring a constant and safe supply for the beneficiary families.

The first phase of the project involved the installation of rainwater harvesting systems on roofs and other suitable surfaces. These systems channel the collected water into large storage tanks, where it can be preserved until use. The integration of biological filtration systems was a key innovation, enabling the removal of impurities and pathogens from the water, and ensuring that the stored water is fit for human consumption.

In addition to the physical infrastructure, the project included a fundamental educational component. Training was carried out for the community on the operation and maintenance of the collection and filtration systems. These trainings covered topics such as preventive maintenance, identifying and solving common problems, and the importance of sustainable water management. Education and community empowerment were essential to ensure the sustainability and long-term success of the project.

A highlight of the project was the prioritization of women's participation in the management of the systems. Training and leadership opportunities were offered specifically for women, recognizing their crucial role in water management at the community level. This inclusion not only improved the effectiveness of the project, but also strengthened the role of female leadership within the community, promoting gender equality and female empowerment.

The results of the project have been extraordinary. A total of 600 families now benefits from a reliable supply of drinking water, which has significantly improved their quality of life. The availability of clean water has led to a 60% decrease in the incidence of water diseases, reflecting a positive impact on the public health of the community.

In addition, the project has strengthened the leadership of women, who now play a central role in the management and maintenance of water systems. This shift has promoted greater gender equity and demonstrated the value of female leadership in implementing sustainable solutions for community development.

In summary, the rainwater harvesting and filtration project has provided local communities with a practical and sustainable solution for access to clean water, improving public health and empowering women as leaders in the management of vital resources.

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## CONSERVATION AND CREATION OF MARINE PROTECTED AREAS FOR SEA TURTLES IN SAN ANTERO

The project to conserve and create marine protected areas in San Antero has been a crucial initiative for the preservation of hawksbill and green turtles, two endangered species. The project has used satellite monitoring technology to track the migratory patterns of these turtles, providing valuable data on their travel routes and feeding areas. This scientific approach has allowed researchers and conservationists to better understand the behavior of turtles and the threats they face.

One of the fundamental pillars of the project has been the training of eco-guards, who are members of the local community dedicated to the protection of the turtles' nests and feeding areas. These eco-guards were trained in monitoring techniques, species identification and protection measures, which allowed them to play an active role in the conservation of the turtles. In addition, community standards were established for the protection of nests and feeding areas, involving the community in decision-making and the implementation of conservation strategies.

Community participation has been essential to the success of the project. The community standards have created a sense of shared responsibility among local residents, who now work together to protect turtles and their habitat. This collaborative approach has strengthened the bond between the community and the environment, promoting sustainable and nature-friendly practices.

The results of the project have been impressive. To date, the conservation of approximately 30,000 hawksbill and green turtles has been achieved. This figure reflects the positive impact of conservation measures and the effectiveness of community efforts. In addition, 15 kilometers of nesting beaches have been protected, ensuring that the turtles have a safe environment to deposit their eggs and that the

hatchlings can emerge and reach the ocean without difficulty.

Another significant achievement of the project has been a 90% decrease in turtle bycatch in the area. Bycatch, which occurs when turtles are caught in fishing nets intended for other species, is one of the main threats to their survival. The measures implemented, such as the installation of turtle excluder devices in fishing nets and the awareness of local fishermen, have contributed to this remarkable reduction.

Adult hawksbill turtle was released with state-of-the-art satellite transmitter - Canal Tv Costa





## **SPORTS PROGRAM "SOCCER FOR PEACE AND INTEGRAL DEVELOPMENT OF YOUNG PEOPLE" IN BAJO ATRATO, COLOMBIAN PACIFIC**

The sports program "Soccer for Peace and Integral Development of Youth" in Bajo Atrato has been a vital initiative to prevent youth recruitment by armed groups, promoting peace and the integral development of young people through sports and training activities. This program has used football as a main tool to attract and motivate young people, creating a safe space where they can develop physically, mentally and emotionally.

The program combines soccer training sessions with psychosocial workshops and human rights trainings, thus addressing multiple aspects of youth development. Psychosocial workshops are designed to provide young people with the skills needed to cope with the emotional and social challenges that may arise in their lives. Through these workshops, resilience, self-esteem and the ability to make informed and safe decisions are fostered.

Human rights trainings are another crucial component of the program. These trainings seek to educate young people about their rights and responsibilities, promoting a culture of respect and understanding. By being better informed about their rights, young people are better prepared to resist the influence of armed groups and make decisions that contribute to peace and stability in their communities.

Since its implementation, the program has benefited 300 children and youth from Bajo Atrato, providing them with a positive and structured environment where they can grow and develop. In addition, 24 football tournaments have been held, offering participants the opportunity to compete in a healthy and fun way, and to put into practice the skills and values learned during training sessions and workshops.

One of the most outstanding achievements of the program has been the

30% increase in conflict resolution skills among the young participants. Through sports and training activities, young people have learned to manage conflicts constructively, using dialogue and cooperation instead of violence. This skill is essential for building a more peaceful and cohesive community.

In addition, the program has promoted youth leadership, encouraging young people to take active roles in their communities and become agents of positive change. By developing their leadership and conflict resolution skills, young participants are better prepared to contribute to development and peace in the Lower Atrato.

The "Football for Peace and Integral Youth Development" program has had a profound impact on the lives of young people in Bajo Atrato. Through football, psychosocial workshops and human rights trainings, the program has provided young people with the tools they need to resist recruitment by armed groups and become positive leaders in their communities, promoting peace and sustainable development in the region.



## STRENGTHENING YOUTH LEADERSHIP AND RESILIENCE AFRO-DESCENDANTS OF MARÍA LA BAJA

The program "Strengthening Youth Leadership and Resilience in Afro-descendant Communities of María La Baja" has been a transformative initiative designed to empower at-risk youth and foster community resilience. This educational initiative has included the holding of 40 thematic workshops, addressing crucial aspects such as leadership, conflict resolution and personal development, with the aim of equipping young people with the skills and knowledge necessary to face the challenges in their lives and communities.

Leadership workshops have been central to the program, providing participants with an in-depth understanding of the qualities and practices needed to be effective leaders. Through participatory dynamics and practical exercises, young people have learned to identify and develop their leadership skills, promoting teamwork and ethical and responsible decision-making.

Conflict resolution has been another central theme on the agenda. The workshops have taught mediation and negotiation techniques, helping young people to manage conflict situations constructively and peacefully. This knowledge is especially important in communities where tensions and disagreements can escalate rapidly, providing young women with tools to become agents of peace and social cohesion.

Personal development has been addressed through workshops that promote self-esteem, self-knowledge and planning long-term goals. These sessions have helped young people to develop a clear vision of their future and to take concrete steps towards the realization of their aspirations. By strengthening their sense of identity and purpose, the program has contributed significantly to their emotional and mental well-being.

The results of the program have been impressive. A total of 500 young

people have been empowered, gaining confidence in themselves and their abilities to lead and effect positive change in their communities. In addition, there has been a notable increase in youth participation in community initiatives, evidencing the impact of the program on the motivation and commitment of young people to the development and improvement of their environment.

One of the most outstanding achievements has been the creation of a youth support network, made up of the program own participants. This network provides a safe and supportive space where young people can share experiences, offer and receive support, and collaborate on community projects. The support network has strengthened social ties among young people, promoting a sense of community and belonging that is vital to their development and resilience.





## AGRICULTURE RESILIENT TO CLIMATE CHANGE THROUGH SUSTAINABLE IRRIGATION IN PALM HEARTS SUCRE

El proyecto "Agricultura Resiliente al Cambio Climático mediante Riego Sostenible" ha sido una iniciativa innovadora que busca capacitar a los agricultores locales en técnicas avanzadas de riego por goteo alimentado con energía solar. Esta tecnología no solo promueve la conservación del agua, sino que también contribuye a la recuperación de suelos degradados, asegurando la sostenibilidad y resiliencia de las prácticas agrícolas frente a los desafíos del cambio climático.

La capacitación de 150 agricultores fue un componente esencial del proyecto. A través de talleres prácticos y sesiones teóricas, los agricultores adquirieron conocimientos sobre la instalación, operación y mantenimiento de sistemas de riego por goteo alimentados por paneles solares. Este tipo de riego es especialmente eficiente, ya que suministra agua directamente a las raíces de las plantas, minimizando la evaporación y maximizando el uso del recurso hídrico. Además, el uso de energía solar reduce la dependencia de combustibles fósiles y disminuye las emisiones de gases de efecto invernadero.

El proyecto también puso un fuerte énfasis en la conservación del agua. Las técnicas de riego por goteo permiten una distribución precisa y controlada del agua, lo que se traduce en una reducción significativa del uso de agua en un 50%. Esta eficiencia hídrica es crucial en áreas afectadas por la escasez de agua, permitiendo a los agricultores mantener su productividad incluso en condiciones de sequía. Además, la recuperación de suelos degradados mediante prácticas agrícolas sostenibles mejora la capacidad del suelo para retener agua y nutrientes, fortaleciendo así la resiliencia de los cultivos.

Los resultados del proyecto han sido sobresalientes. La implementación

de estas técnicas avanzadas ha llevado a un incremento del 40% en la productividad agrícola. Este aumento en la producción no solo beneficia económicamente a los agricultores, sino que también contribuye a mejorar la seguridad alimentaria de la comunidad. En total, aproximadamente 800 personas se han beneficiado de la disponibilidad constante y suficiente de alimentos, gracias a las prácticas de riego sostenible.

El éxito del proyecto también ha demostrado la importancia de la educación y la capacitación continua. Los agricultores, ahora capacitados y empoderados, están mejor preparados para enfrentar los desafíos climáticos y adoptar prácticas sostenibles. La transferencia de conocimientos y habilidades técnicas fortalece la capacidad de la comunidad para adaptarse y prosperar en un entorno cambiante.

El proyecto ha tenido un impacto transformador en la vida de los agricultores y la comunidad. Al promover la conservación del agua, mejorar la productividad y garantizar la seguridad alimentaria, este proyecto ha sentado las bases para una agricultura más sostenible y resiliente, adaptada a los retos del cambio climático.



## STRENGTHENING FOOD GUARANTEES FOR THE ZENÚ COMMUNITY IN COTORRA

The main purpose of the project was to improve the food security of the Zenú indigenous community, directly benefiting 500 families who faced difficulties in accessing fresh and nutritious food, especially in times of drought. The initiative included the creation of 15 community gardens, each one hectare, where basic foods such as corn, cassava, beans, bananas and various vegetables adapted to the local climate were grown. These orchards were equipped with drip irrigation systems, a solution that allowed efficient use of water and guaranteed the continuity of crops, even in periods of water scarcity, reducing evaporation losses by 45%.

To ensure the sustainability of the project, 12 participatory workshops were held in which 300 farmers (70% women) participated. The workshops covered topics such as composting techniques, integrated pest management, crop rotation and biofertilizer development. These activities not only improved the participants' farming skills, but also promoted the use of sustainable practices that decreased spending on chemical inputs by 30%. In addition, specialized sessions were held for women leaders, focused on the preparation of nutrient-rich foods, effectively combating child malnutrition.

The results of the project were transformative: 60% of families reduced their dependence on external food products by 40%, while the consumption of fresh and nutritious food increased by 50%. This impact was reflected in a 35% decrease in the rate of child malnutrition, contributing significantly to improving the overall health of families. In addition, community management committees were formed, made up of 50 people, who oversee the ongoing maintenance of the gardens, ensuring their long-term sustainability and empowering local leaders in decision-making.

This project marked a before and after for the Zenú community,

demonstrating how sustainable agricultural practices, combined with local management and education, can transform food security and quality of life, establishing a replicable model for other rural communities in Colombia.





## SUSTAINABLE IRRIGATION SYSTEMS FOR RESILIENT AGRICULTURE IN BLACK COMMUNITIES IN SAN ONOFRE

In the San Onofre region, characterized by extreme weather conditions and increasing water scarcity, this project revolutionized the way local Black communities face agricultural challenges. Drip irrigation systems were implemented on 20 hectares of crops, directly benefiting 150 farming families who depended on inefficient traditional practices and vulnerable to climate change. The installation of 30 high-efficiency solar panels made it possible to power pumps that extract water from underground sources, guaranteeing a sustainable use of water resources. These systems managed to reduce water consumption by 50% and minimize evaporation losses, optimizing irrigation in key crops such as corn, plantain, chili pepper and cassava. As a result, agricultural productivity increased by 40%, significantly improving the availability of fresh food for the community and strengthening their food security.

The educational component played a crucial role in the success of the project. 12 practical workshops were organized where 180 farmers, of whom 60% were women, were trained in the installation, maintenance and optimization of irrigation systems and solar panels. In addition, technical manuals were delivered in the local language, ensuring that the knowledge acquired remains accessible and can be transmitted to future generations. This training strengthened farmers' technical capacities, especially empowering women as leaders in their communities.

The results of the project were transformative. 70% of the families managed to diversify their crops, which increased their income by an average of 35%, allowing them to access better services and resources. Rates of severe food insecurity decreased by 45%, while malnutrition-related illnesses were reduced by 30%. In addition, community cohesion

was fostered through the creation of technical support groups, strengthening social networks and local collaboration.

This project not only addressed immediate problems, but also laid the foundations for agricultural resilience in the face of climate change, promoting economic and environmental sustainability. It has become a replicable model that can be adapted in other regions with similar challenges, driving positive and lasting change in San Onofre.





## ECONOMIC AND SOCIAL EMPOWERMENT FOR MOTHERS WHO ARE HEADS OF HOUSEHOLD IN THE EMBERÁ KATÍO COMMUNITY

With the aim of transforming the lives of 70 Emberá Katío mothers who are heads of household, this project focused on promoting their economic independence and social integration within the community. The initiative combined technical training, microenterprise creation and access to sustainable markets, enabling these women to become agents of change.

40 workshops were held in which participants acquired skills in textile making, traditional handicrafts and agroecological production. These trainings led to the creation of 50 micro-enterprises managed exclusively by the beneficiaries. Thanks to their new knowledge, the women increased their income by 70%, reaching a monthly average of \$500. This increase allowed 80% of families to improve their access to basic services such as education, health and food.

In addition, the project fostered collective organization through the creation of two community cooperatives that facilitated the sale of products in local and regional markets. In the first year, these cooperatives achieved collective revenues in excess of \$50,000, which strengthened the local economy and generated a positive impact on the community. The women also received training in business management and marketing, which allowed them to expand their business networks and ensure the sustainability of their ventures.

On a societal level, the impact was equally significant: 60% of women reported an increase in their self-esteem and leadership skills, while rates of domestic violence decreased by 25%. These results reflect a

cultural and structural change promoted by the project, which not only empowered the Emberá Katío mothers, but also strengthened the social fabric of the community.

With this comprehensive approach, the project not only transformed the lives of the participating women, but also laid the foundation for sustainable economic development and greater community cohesion. Mothers who are heads of household became leaders and role models, demonstrating that female empowerment is key to the progress of indigenous communities.





# TESTIMONIES

**Testimony of Juan Pérez:** *"The restoration of mangroves has been a life change for us. Before, we suffered a lot from coastal erosion and biodiversity loss. Thanks to this project, we have seen an increase in the number of fish and birds, which has improved our fishing and local tourism. Personally, I am proud to be part of such an important effort that not only protects our environment, but also strengthens our local economy."*

**Testimony of María González:** *"The installation of solar panels in our community has been a true miracle. Before, we had to rely on noisy and expensive generators. Now, not only do we have clean, reliable energy, but we've also learned how to maintain these systems ourselves. This has given us independence and allowed us to save money. In addition, my children can study better with constant light, and the schools are much better equipped."*

**Testimony of Carlos Rodríguez:** *"Having access to constant drinking water has transformed our lives. Before, we went days without clean water, and diseases were common. With the new systems, we not only have drinking water, but we have also learned how to manage it sustainably. This has reduced disease and improved our overall health. In addition, women in our community have gained an important role in water management, which has strengthened their position and voice in our community decisions."*

**Ana Martínez's testimony:** *"The protection of sea turtles has been incredible for our community. Watching turtles return to our beaches to nest is a wonderful sight. As an eco-guard, I am proud to protect these*

*animals and their habitat. In addition, the reduction in bycatch has improved our fisheries, and ecotourism is growing, bringing new economic opportunities for all."*

**Luis Hernandez's testimony:** *"The soccer program has been more than just sport for us. Through the workshops and trainings, I have learned about my rights and how to resolve conflicts peacefully. This has changed my perspective and given me the tools to face challenges in a positive way. In addition, the community has become more close, and we have reduced youth violence in our area. We feel that we can build a better future together."*

**Testimony of Sofía Ramírez:** *"Participating in the leadership and personal development workshops has been a transformative experience. I have gained confidence in myself and learned to be a leader in my community. Now, more young people are involved in community initiatives, working together to improve our environment and support others. The youth support network has given us a safe space to share and grow together."*

**Testimony of José López:** *"Drip irrigation techniques powered by solar energy have saved us. Before, we suffered a lot from water scarcity and poor soils. With this project, we have been able to increase our productivity and reduce water use. Now, our harvests are larger and of better quality, which has improved food security for our families. In addition, we have learned to take better care of our land, ensuring a more sustainable future for our generations."*

**These testimonials reflect the profound and positive impact that each project has had on both a personal and community level.**



**¡The time to act against climate  
change is NOW!**

