

ANNUAL REPORT 2015

INNOVATING TO DRIVE ENVIRONMENTAL SUSTAINABILITY



GENESYS
FOUNDATION, INC.
GLOBAL ENVIRONMENT &
NATURE ECOSYSTEMS SOCIETY (PHIL.)

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GENESYS at a glance

In 1999, the Global Environment and Nature Ecosystems Society Foundation, Inc. (GENESYS) was founded as a non-governmental and non-profit organization. It was established to participate actively in protection and conservation of environment, as well as to take an active role in the civil society development through protection of biodiversity and realization of the sustainable development principles.

GENESYS is dedicated to the environmental protection and environmental improvements which will strengthen sustainable future and lead towards social and economic improvements of the social communities. It is committed to work with a different range of stakeholders in order to foster cooperation and joint work for the purpose of achieving sustainable future and strong recognition of San Carlos City and the Island of Negros as an ecological community to live in.

Our **VISION** is to be a nationally recognized intermediary organization envisioning an ecologically balanced and sustainable environment in San Carlos City and surrounding municipalities where present and future generations enjoy an enhanced quality of life through the rehabilitation, preservation and responsible management and development of its natural ecosystems.

Our **MISSION** is to initiate, develop and implement viable environmental programs with the participation of urban, coastal and upland communities in San Carlos and neighboring ecosystems.

Our **VALUES**

- Integrity
- Leadership
- Environmental Concern
- Excellence
- Care for People
- Innovation
- Social Responsibility
- Cooperation

President's Message

In many ways, 2015 was a positive year for GENESYS. This 2015 report showcases more accomplishments. It highlights developments of local environmental significance and it documents local initiatives viz research and development, advocacy and enabling sustainable mechanism on environment restoration and preservation projects. GENESYS works on demonstrating that ecosystems are a key driver of economic growth and that should also factor into the evolving sustainable development agenda. I'm not surprised that we have punches above environmental and ethical performance, being an award recipient of best environmental practices and governance.

Fundamentally, the environment is a long-term investment, one that brings longer-term gains that benefit all of humanity for centuries to come. Since its founding in 1999, GENESYS has made significant contributions to protecting the environment. Today's challenge is to build on those achievements and core strengths and to position GENESYS as a more effective, delivery-oriented, and indispensable institution for implementing environmental projects. All of its projects follow a supportive and partnership-based approach of empowering communities to be the drivers of changes in environmental protection. GENESYS indeed is in it for the long haul. It still has a long way to go but I hope this report demonstrates that it is making good progress.

None of our work would be possible without the generous support and investment in the environment by our partners, to whom we are grateful for the unflagging support. I would like to thank, first of all, my staff for taking so much initiative themselves, and working extremely hard to meet goals and deadlines. I thank in particular the Local Government of San Carlos for the strong support and accessibility in terms of policies in areas of environmental protection and restoration as well as our partners in development from the private sectors for the project collaboration and partnership. And last but not the least, the community we serve who supports us in our work and reaps the eventual rewards.

GENESYS continues to be financially well managed as indicated by our audited financial statements. Seizing this moment, we have big goals for the coming years. In 2016, I expect, GENESYS to strive to develop and empower networks, to bring rigor and clarity to the process of sustainability-oriented innovation through building a sustainable, resilient and inclusive future, one that provides for the well-being of both people and the planet.

Thank you again, and we look forward to working together in the year ahead.

JUAN XAVIER P. ZABALETA
President

R&D Fueling Innovation

Test for Quality Stocked Cane Trash in Windrows

GENESYS as a valued partner in environment-related research for development has contributed technically at all stages of the research cycle for sugarcane trash in windrows with San Carlos Biopower, Inc. The initial endeavor of San Carlos Biopower to collect sugarcane trash started in January 2014 and the windrow sample was formed between the months of January and March 2014.

The study on the quality of stocked cane trash in windrows was made due to new possibilities for using sugarcane trash for electricity generation. Specifically, it was designed to derive the moisture content of a windrow, obtain visual grading of the open stored sugarcane biomass and make a general assessment of the biomass' quality as a boiler fuel.

Before cane trash was identified as feedstock for biomass power plants, sugarcane waste was burned in the fields, a practice that contributed to air pollution. Fossil fuels also contribute to environmental hazards with the addition of thousands of tons of carbon, sulphur, nitrogen & other pollutants in the air. These adverse effects precisely signified the need to discover novel & economical alternative fuels. Biomass based fuels are considered as renewable fuels. These are the organic waste available from diverse sources like the stocked sugarcane trash.

GENESYS as a research advocate trusts that thorough knowledge about the characteristic features of sugarcane biomass needs to be



explored for getting better potential of their use in future context of their availability as per the geographical conditions. Hence, the conduct of research on stocked cane trash in windrows determines the percentage of moisture content and its physical condition. It further evaluated the amount of dry matter from sugarcane trash collection and its nutrient and moisture content of a windrow.

It was concluded in the study that the conserved integrity of the biomass during storage is of utmost importance. Losses of dry matter caused by elevated moisture content and loss of heat value result in the deterioration of the biomass and its unsuitability as a boiler feedstock and bring in an error of assessment of input fuel energy.

GENESYS continued making substantive contributions through supporting relevant and effective research which provided them with great motivation to strive to be a more environmentally friendly and socially responsible institution. It has an end goal of helping the community contribute to a healthful ecology by reducing greenhouse gases and enable the growth of renewable energy as well as the creation of green jobs. ●

1

The actual field study on the quality of stocked cane trash in windrows

R&D Fueling Innovation

UFERI-UNILOX Sulfur Coated Fertilizer Trial at Vasconia

Good soil fertility means good crop yield which implies that Nitrogen (N) as one of the major elements that determine soil fertility should be ideally present in soil. Preventing its loss from an ecosystem is important for soil fertility management.

To further evaluate this principle, a field experiment on sulfur coated fertilizer application at Hacienda Vasconia in San Carlos City was carried out jointly by Bio Resource Inc. (BRI), Gamboa Hermanos Inc. (GHI) and UNILOX Far East Resources Inc. (UFERI). BRI with the technical assistance of GENESYS Foundation handled the field study, treatment application, data gathering, data analysis, and report writing while GHI provided the land and the logistic support related to land preparation, planting, cultivation, and other crop maintenance and harvesting. UNILOX provided the fertilizer materials.

The field study was intended to be a demo on the use of sulfur-coated urea (SCU) and the regular commercial Prilled Urea (PriU) purposely to evaluate the Nitrogen-use efficiencies and to compare the yield performance of sugarcane. Specifically, it is aimed to determine the economic advantage of using SCU for sugarcane, and establish the appropriate rate recommendation of SCU for sugarcane



in San Carlos based on soil analysis.

After the harvest on October 20, 2014, GENESYS study concludes that the application of urea fertilizer has always been associated with heavy N losses therefore, improving its efficiency is critical to minimize economic and environmental losses associated with its application. One possible approach to improve the nitrogen losses from the surface applied urea is to coat it with sulfur.

However, the additional labor and equipment required to produce coated fertilizers and the cost of the coating materials make them much more expensive than conventional N fertilizers. Due to the simplicity and relatively low cost of using sulfur as a coating material, sulfur-coated urea has become the most commonly used coated-urea product. ●

¹
UFERI-UNILOX Sulfur Coated Fertilizer Trial
at Vasconia, San Carlos City

Catalyst for Collaboration

Solar Lighting for Camangianan Community

It was on September 25, 2014 that GENESYS Foundation distributed 55 re-chargeable lamps to the families of Sitio Camangianan, Brgy. Prosperidad during the inauguration of the off grid solar power project of SACASOL. The launch of this project also brought a clean energy solution to Camangianan Elementary School with over 160 students as the school is not wired for electricity.

GENESYS, through its intervention with SACASOL for the solar project is making a statement on how it feels about the environment and the rights of children to a clean environment by helping the community “GO GREEN”. Being green is not only benefiting the environment but the quality of life of people in the community as it creates a visible image of environmental sustainability and promotes the reduction of the carbon footprint.

The support from the City Government and DEP-ED shall provide a strong basis for replicating this project across several barangays in San Carlos and as demonstrated by this pilot barangay, GENESYS believes



believes that it can go a long way in taking this initiative to several schools in need of electricity.●

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Off-grid Solar Project at Sitio Camangianan, Brgy. Prosperidad, San Carlos City lighting up an elementary school

2

Community-Recipients of rechargeable solar lamps

Catalyst for Collaboration

San Carlos Sun (SACASUN) Power Public Consultation

In the interest of community awareness about renewable energy, GENESYS conducted a public consultation on October 15, 2014 with an objective to seek the views of the community on the issues that may need to be addressed about the solar power project. The solar plant will be constructed on a 75-hectare property inside the San Carlos Ecozone in Barangay Punao, San Carlos City sometime in 2015 by San Carlos Sun (SACASUN) Power, Inc. - a subsidiary of Aboitiz Power Corporation.

GENESYS, in its pursuit to protect the environment, supports SACASUN's innovative strategy for solar power system. It is its way to be part of the environmental solution paving the way to a cleaner, more sustainable energy future. GENESYS helped prepare the community particularly in Barangay Punao, San Carlos City to appreciate the benefits of solar energy. It allowed them to be part of the solution, part of the low-carbon economy, and be in control of their economic and environmental sustainability. The construction of the solar power plant, moreover is also expected to hire workers from the host community thereby generate employment to the San Carlos populace.



From an energy security and sustainability perspective, the community finds it logical to make the most of solar power technologies. ●

1&2

Public consultation held in Brgy. Punao, San Carlos City on October 15, 2014 for San Carlos Sun Power Project

Catalyst for Collaboration

Solar Light-Up: A Panasonic Solution

An effort of Panasonic Corporation in lighting up areas that have no electricity is a response to the attainment of sustainable development goals (SDGs) prioritizing quality education, good health and well-being and ensuring access to affordable, reliable, sustainable and modern energy for all. Panasonic being an expert in lighting and solar energy technologies developed solar lanterns for donation to enhance the quality of life of people living in areas without electricity.

GENESYS as a recipient of 30 solar lanterns inked the Memorandum of Agreement in February 2015 with Panasonic Corporation to help address social challenges in areas of education, health and the empowerment of women. Panasonic's concept of "A Better Life, A Better World" was reflected on the lives of teachers, barangay health workers and watchmen (tanod) in Barangay Punao, San Carlos City through GENESYS's intervention during the turn-over of the solar lanterns on April 24, 2015.

Access to electricity is indeed essential for modern living. Evidence to date as gathered by GENESYS suggests that electrification is linked to a wide range of improvements. It significantly increased home study hours among teachers and school children, especially in the night. It also resulted to



marginal improvements on health-related services of barangay health workers and for monitoring peace and order situation in Barangay Punao by the barangay watchmen or tanods.

In addition to all of this, the benefits of solar lighting are only destined to increase as solar technology advances. From an energy security and sustainability perspective, the community finds it logical to make the most of solar power technologies. ●

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The Panasonic Corporation held donation ceremonies in Manila on February 17, 2015 with GENESYS as one of the recipients of solar lanterns

2&3

The use of Panasonic solar lanterns which resolves various social challenges faced by the community living in areas with challenging electrical power conditions

Increased Participation & Partnership

GENESYS maintains strategic partnerships with various organizations. It places great importance on continuously improving collaborations with partners that geared towards the common vision of an ecologically balanced and sustainable environment in San Carlos City and the Island of Negros. Partnering with LGU and other private organizations from various sectors helps in achieving positive change and building a more strategic approach to development.

This novel outlook further finds GENESYS strengthening its ties with various project partnerships and organizations like the Project I4J (Integrity for Jobs), Local Poverty Reduction Action Team (LPRAT), Organized Rescuers for Community Assistance (ORCA), City Agriculture and Fisheries Council (CAFC), Protected Area Management Board (PAMB) and ECOZONE Committee through the provision of technical cooperation and support in priority program areas specifically in environment.

LPRAT- LOCAL POVERTY REDUCTION ACTION TEAM

The Local Poverty Reduction Team is composed of members from the civil society organizations and the government that spearhead the formulation and monitoring of the local poverty reduction programs and projects of the City of San Carlos. GENESYS as a stakeholder actively participates in addressing the needs of the poor constituencies and the marginalized sectors in the San Carlos community. It also helps in designing projects, allocating resources and monitoring projects designed to meet the identified development needs of the community in addressing poverty.

GENESYS' membership with LPRAT is rooted in a deep, shared commitment to lifting people out of poverty by creating greater food security in a way that is self-sustaining. ●

CITY DEVELOPMENT COUNCIL

The Local Government Code otherwise known as Republic Act 7160 provides for the creation of City Development Council, a local special body composed of members from the barangay, private sector and non-government organizations. The City of San Carlos has a comprehensive multi-sectoral development plan initiated by the development council making it more efficient in accelerating economic and social growth and development at the local levels.

GENESYS as an active member of the council participates to meetings held once in every six (6) months or as need arises. With the nature of its program operation, it assists the city in setting the direction of environmental efforts within its territorial jurisdiction. Its approach to care for the environment is based on the principle of sustainable development that is maintaining a balance between human need and preserving natural resources and ecosystems, on which we and future generations depend.

Another contribution and participation of GENESYS being a member of the Council is assisting the local legislative body in the formulation of development plans for the city focusing on environmental protection and coordinate, monitor and evaluate its implementation. ●

CITY AGRICULTURE AND FISHERY COUNCIL

In support to San Carlos City Government's vision of an integrated agricultural and coastal resource management, GENESYS commits itself in supporting the implementation of programs of the City Agriculture and Fishery Council (CAFC) linked to the Department of Agriculture programs.

GENESYS' membership with CAFC allows it to impart its knowledge and insights into addressing issues and sharing technologies that are raised from the agriculture and fisheries sectors geared towards conserving biodiversity and empowering communities. ●

Increased Participation & Partnership

ECOZONE Development Committee

The PEZA-approved San Carlos Economic Zone (ECOZONE) is a 405-hectare property located in Barangays Palampas and Punao which envisions to be a world class, environment-friendly industrial estate where there sits the renewable energy (RE) facilities like the Bio-Ethanol Co-Generation Plant, Solar and Biomass Power Plants.

The ECOZONE was envisioned to be an economic hub that is designed to generate local economic activities to spur the promotion of trade, investments, and ecology tourism not only in San Carlos City but also throughout the Visayas Region.

GENESYS as a member of the ECOZONE Development Committee provides technical inputs in establishing protective measures vis-à-vis environmental factors caused by climatic change. Such inputs may include mechanisms in minimizing floods; improvement of drainage system, soil erosion control, landscaping that will improve water ingress, enhancement of the aesthetic of the zone and other leading environmental engineering practices that complement the GO GREEN stature of the city. ●



1&2
PEZA-Approved San Carlos
Economic Zone (ECOZONE)
with RE facilities

Increased Participation & Partnership

Protected Area Management Board (PAMB)

The Protected Area Management Board (PAMB) is a multi-sectoral body responsible for the administration and management of all protected areas in the Philippines including the North Negros Natural Park. GENESYS' collaboration ultimately focused on a common interest with various civil society organizations and LGUs in the conservation of the park's resources. It also ensures that the community or migrants in the park are empowered that through policy changes they too may be involved on the planning process on matters concerning ecology and eventually transform their role in their communities, giving them a voice as partners for the sustainable management of the park.

GENESYS recognizes the complex social, economic and environmental issues facing our world. Because of the complexity of these issues, GENESYS supports the need to form partnerships with other organizations to provide meaningful impact of all actions from fostering sustainable economic development to promoting good environmental practices and technologies being best implemented through collaboration with others.



That to GENESYS is the power of collaboration, and the beginning of solutions to some of the world's most pressing challenges vis-à-vis the ecological system. ●

1
Northern Negros Natural Park (NNNP) accounts the largest remaining natural forest in Negros Island

Increased Participation & Partnership

USAID – B+Wiser METT Planning and Orientation on Environmental Law Enforcement for North Negros Natural Park (NNNP)

GENESYS Foundation participated in a three-day action planning workshop on Management Effectiveness Tracking Tool (METT) and Environmental Law Enforcement for North Negros Natural Park on October 27-29, 2014 in Bacolod City. The activity was organized by DENR-USAID's Biodiversity and Watersheds Improved for Stronger Economy and Ecosystem Resilience (B+WISER) Program.

METT is the most widely used tool to measure protected area management effectiveness and to track and monitor its progress. It enabled the participants to formulate action plans for identified priority areas at the Park for improvement such as updating of management plan with clear conservation targets and strengthening of current environmental law enforcement efforts.

GENESYS finds this tool useful and relevant in improving protected area management specifically for North Negros Natural Park; yielding explanations and showing patterns and improving communication, relationships and awareness among the stakeholders as well as the community. ●



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The Participants of the METT Action Planning Workshop

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Ms. Ma. Rosa Solis, Executive Director of GENESYS Foundation shared her inputs during the METT Action Planning

Increased Participation & Partnership

San Carlos City Organized Rescuers for Community Assistance, Inc.

Healthy mangrove forests are key to a healthy marine ecology. GENESYS supports this growing awareness of the importance of mangroves by collaborating with the San Carlos City Organized Rescuers for Community Assistance, Inc. (ORCA). One of the activities conducted is the mangrove tree planting at Barangay Guadalupe on May 10, 2015. Government and community-led efforts are under way in restoring or replanting mangroves as it provide enormous benefits to humanity, especially as essential harbors for biodiversity, as buffers against the destructive power of waves, and as nurseries for coastal and offshore fisheries. Thus, adding up to the community's source of income since it harbors numerous marine species of fish and shell fish that the community can sell and earn money from it.

Besides their role in shoreline protection, mangroves constitute a valuable tool in the fight against climate change. It is clear that integrated management actions are needed to promote the health of the mangrove ecosystem which GENESYS strongly supports even activities involving coastal clean-up as spearheaded by ORCA on June 21, 2015 leading to a more cleaner, greener and sustainable environment. ●



1,2&3
GENESYS' participation to Mangrove Tree Planting at Brgy. Guadalupe, San Carlos City on May 10, 2015

Increased Participation & Partnership

Partnership for Integrity and Jobs Project (I4J)

San Carlos City has been chosen as one of the three (3) pilot cities in the entire Philippines for Project I4J implementation as the city emerged on top of the League of Cities of the Philippines' evaluation on its integrity mechanism in the local government.

Project I4J which stands for Partnerships for Integrity and Jobs is co-funded by the European Union. It is focused on the pilot development integrity mechanisms and models of transparency in cooperation with civil society organizations and decision makers at LGUs.

GENESYS is one civil society organization that plays an important role in the advancement of universal values around human rights, the environment and anti-corruption. It takes part in the government's development program in spearheading the community response for promoting integrity in environmental governance, in particular, to mobilize, empower and support communities to respond effectively to inculcating integrity in governance and society. ●



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GENESYS participation to I4J International Conference on August 25, 2015 at Bayleaf Hotel, Intramuros, Manila

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Project I4J Team in San Carlos (The LGU and Civil Society Organizations)

Increased Participation & Partnership

Citizen Satisfaction Index System Utilization Conference

The Citizen Satisfaction Index System (CSIS) is a citizen-centric strategy that is capable of generating a balanced perspective from the citizens on the reach and quality of basic public services. In a sense, it is about the citizens' voice in the local decision making process to help promote transparency, accountability and participatory governances.

GENESYS' participation in the conference held on December 9, 2015 at Nature's Village, Talisay, Negros Occidental was to help assess the quality, responsiveness and inclusiveness of local government's service delivery particularly in the area of environmental management and protection other than health, education, social welfare, agriculture, tourism, among others.

Pursuant to DILG Memorandum Circular 2012-113, the CSIS shall be implemented from 2013 until 2016. In this conference, the Citizen Satisfaction Index System 2015 Implementation Results were presented and at the same time, set of activities and strategies were identified with the corresponding target dates of implementation to fulfill the objectives of the project and enhance the CSIS framework. ●



1&2

The CSIS Conference with DILG as the Implementing Agency in partnership with various stakeholders

Awards

PEMO Silver Seal of Good Environmental Governance

GENESYS' implementation of viable environmental programs with the participation and collaboration of various stakeholders has met the criteria set by the Provincial Government of Negros Occidental through the initiative of the Provincial Environment Management Office (PEMO). For this year, GENESYS was recognized for its exemplary contribution to biodiversity conservation and significant practices on environmental protection and thus, it was awarded with the Silver Seal of Good Environmental Governance.

The awarding ceremony hosted by PEMO was held at L'Fisher Hotel Bacolod City during the 23rd Provincial Environment Week Culmination Program last June 26, 2015 with the theme, "Seven Million Dreams. One Planet. Consume with Care".

The Provincial Government of Negros Occidental through PEMO honors non-governmental organizations throughout the province that demonstrate extraordinary effort, innovation, leadership, and excellence in providing environmental concern to humanity and global well-being. ●



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GENESYS Foundation bagged the Silver SGE from the Province of Negros Occidental thru PEMO. Awarded by the Provincial Governor Alfredo Marañon, Jr. & Vice Governor Eugenio Jose Lacson

2

The Silver Seal of Good Environmental Governance Award: GENESYS' Challenge for Good Performance

Awards

DENR Recognition for Environment and Natural Resources (ENR) Related Program Involvement

In addition to PEMO, the Department of Environment and Natural Resources (DENR) Region VI also recognizes GENESYS's active involvement in the implementation of environmental and natural resources (ENR) related programs implemented in the Province of Negros Occidental.

The award is DENR's way of recognizing and praising GENESYS on its significant and outstanding contribution in the protection, conservation and management of our environment and natural resources with the hope that it will be emulated by other organizations or companies.

The awarding ceremony was held on June 30, 2015 during the culmination program of the Environment Month 2015 at the DENR VI Regional Office Courtyard, Iloilo City. ●



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Ma. Rosa Solis, GENESYS Foundation Executive Director received the award from DENR – a license in delivering the best services, programs and projects in environment

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