

GENERAL INFORMATION ON THE PROGRAM

1. Title of the Program: LUNTIANG SAN LUIS (Luntiang Pamayanan bunga ng Inisyatibo at Aksyon ng Nagkakaisang Mamamayan ng San Luis – The Dimanayat Micro-Hydro Power Project)
2. Name of the LGU Implementing the Program: Municipality of San Luis, Aurora
3. Population of the LGU: 27, 352 (2015 PSA Survey)
4. Income Classification of the LGU: 2nd Class Municipality
5. Profile and Number of the Beneficiaries: 120 households in Barangay Dimanayat and 78 households in Sitio Alasanay for the Micro-Hydro Power Project, 5,215 farmers and 661 fisher folks for the various Luntiang San Luis Projects
6. Date (Day, Month and Year) of the Start of the Program: January 1, 2006
7. Financial Profile of the Program in the Previous Year/s (Maximum of 3 years):

Source of Funds	Expenses	2014	2015	2016
LGU	Construction of Micro-Hydro Power Project (Sitio Alasanay)	2,000,000.00		250,000.00
Barangay	Construction of Micro-Hydro Power Project (Dimanayat)	150,000.00		
LGU	High Value Crops Production	500,000.00	1,000,000.00	300,000.00
LGU	Niyugan sa Barangay	20,000.00	100,000.00	
LGU	Corn Production Program		50,000.00	25,000.00
LGU	Rice Production Project	750,000.00	300,000.00	300,000.00
LGU	Nursery Development Program	500,000.00	200,000.00	270,000.00
LGU	Farm Mechanism Program			60,000.00
LGU	Aquaculture Development Program	200,000.00	150,000.00	100,000.00
LGU	Fish Sanctuary and Coastal Resource Management Program		100,000.00	
LGU	Fishery Law Enforcement Program	200,000.00		
LGU	Swine and Livestock Production Program	200,000.00	100,000.00	
LGU	Acceleration of Livelihood Program	100,000.00	500,000.00	250,000.00
	Total Program Budget	4,620,000.00	2,500,000.00	1,555,000.00

PROGRAM BRIEF

Luntiung San Luis was started in 2006 by the then Municipal Mayor Mariano C. Tangson. In 2004, the municipality of San Luis, Aurora have suffered from typhoon and implementation of total log ban in the province. The local government is challenged to fight unemployment, low income, poverty, illegal logging, kaingin and poverty in the four coastal barangays but during those period the community demands to have electricity. With the geographical location of Barangay Dimanayat and being 9.2 kilometers away from the grid, it is not feasible to connect the barangay to the Aurora Electric Cooperative (AURELCO) grid thus the Local Government has to find means to provide electricity to the community but in return answering the issues in the community.

Beneficiaries' needs/ problems that the program addressed

Before 2004, the four coastal barangays of San Luis was a thriving economy with three logging concessionaire operating there for more than two decades. People from nearby provinces of Quezon, Nueva Ecija even as far as Bicol migrate to the Barangay Dimanayat and Dikapinisan and bring their families for great opportunities on livelihood and source of income.

However, in November 2004, the municipality of San Luis was hit by typhoon Violeta and Winnie. The municipality especially the four coastal barangays have suffered massive damage in properties and crops plus one fatality. Flash floods carrying debris of logs and earth washed down from the mountain and submerged the houses in barangay proper of Dimanayat.

Then, in December 2004, the community hit with another blow when then President Gloria Macapagal-Arroyo ordered the suspension of commercial logging in the area after resident blamed the disaster on illegal loggers. The four coastal barangays hit the all-time low with the loss of their main source of livelihood plus the devastation brought by the typhoons.

On the aftermath of the two occurrences, several consultation with the community were made as part of the rehabilitation program of the local government in 2005. Unemployment, low income, illegal logging, kaingin and poverty were the common issue but the community mostly want is to have electricity.

In 2005, there is no electricity in all four coastal barangays. Barangay Dimanayat being the farthest coastal barangays and 9.5 km far away from the grid has no possibility to be connected to the grid even with 1,149 populations and 247 households then. Households have to pay at least one peso a night for a candle to light their houses. It is ordinary then to see children studying in the dark with candle or kerosene lamp as source of light during night time. There is no television, refrigerator nor other appliances which provide convenience to everyone right now. During calamities, it took days even weeks to know the situation in the said areas resulting to the delays on the delivery of relief and rescue operations that the community needed.

The objectives of the program

Luntiung San Luis aims primarily to provide electricity with micro-hydro power project in the community but cascaded into many projects in recent years. It also aims to increase productivity and income of both

farmers and fisherfolks. Finally, it aims to provide the community social awareness in the importance of environmental issues especially forest protection and management.

The corresponding strategies to meet such objectives

The municipality of San Luis, Aurora implemented the Micro-Hydro Power Projects in Barangay Dimanayat and Sitio Alasanay which are both 100% renewable energy. Part of the agreement is that the municipality of San Luis will provide electricity but the community will protect the surrounding forest as main source of water for the project.

With no experience in constructing a micro-hydro power project, the Municipality of San Luis implemented the project in partnership with Central Luzon State University Affiliate Non-Conventional Energy Center (CLSU-ANEC) with the former providing technical assistance for the construction of the plant. For the Micro-Hydro Power Project in Sitio Alasanay, the Municipality of San Luis partnered with the Center for Micro Hydro Technology for Rural Electrification of De La Salle University for the fabrication of turbine.

As part of the agreement between the local government and the community, the municipality of San Luis, Aurora provided various agricultural seedlings and inputs, livelihood programs, financial and technical assistance to farmers and fisher folks.

During the conceptualization of the project, various consultation were made with the community to hear their issues and concerns which mainly their need to address unemployment and poverty while protecting the forest area in Barangay Dimanayat and surrounding areas in the process.

POSITIVE RESULTS AND IMPACTS

There are three components of Luntiang San Luis in Barangay Dimanayat. These are (1) providing electricity in the barangay including Sitio Alasanay (2) increasing the productivity of the local by providing them other sources of income and (3) providing social and environmental awareness to the community.

The 7KW micro-hydro power project in Sitio Alasanay is currently providing electricity to 78 households and being managed locally by a barangay cooperative including its power plant operation and maintenance. The same cooperative also makes its own policies on the collection, operation and maintenance of the power plant. On the other hand, the 10KW micro-power project in Barangay Dimanayat originally designed to provide electricity to 120 households in 2006 but now currently serving 220 households.

Common households in Aurora Province using two bulbs, a television, an electric fan and washing machine pays an average of PhP300.00 monthly to Aurora Electric Cooperative. In Barangay Dimanayat, they pay PhP20 for each bulb, PhP25 for a television, PhP12 for an electric fan and PhP50 for a washing machine or a total amount of PhP127 monthly for the same consumption of electricity.

The micro-hydro power project has also eliminate fear of fire in the lives of the community which they experience many times before because of using candle or kerosene.

The Municipality of San Luis, Aurora knows that protecting the forest area in Barangay Dimanayat and surrounding area is vital in the operation of the Micro-Hydro Power Plant thus it is necessity to provide other sources of livelihood for the locals. The local government provided various livelihood projects in support of the program such as ampalaya production, gabi production, rice production, vegetable production, abaca production wherein the farmers are provided with plantation materials, financial assistance and training to make sure their projects would be sustainable. With these livelihood projects, farmers' income have increased from twenty to thirty percent (20 – 30%). A farmer in Barangay Dimanayat with 1,500 square meter of ampalaya plantation has already earned net income of twenty thousand pesos (PhP20,000). Currently, the Barangay Dimanayat has the largest plantation area of ampalaya in Aurora Province.

The Municipality of San Luis, Aurora is also the fruit basket of Aurora Province with currently 1,560 hectares of orchard production areas for lanzones, suha, rambutan, cacao, and other HVCC. This was realized through provision of quality fruit tree seedlings and technical assistance and also eliminates the mentality of cutting trees.

With the efforts of local government, the broadleaved closed forest in San Luis, Aurora has increased by 12,068.84 hectares or 33.09% from 2003 to 2010. On the other hand, the broadleaved open forest has decreased by 12,241.32 hectares or 60.47%. In Barangay Dimanayat, there is no broadleaved closed forest in 2003 but increase to 93 hectares in 2010. This trend occurred with the plantation in open forest has grown to become broadleaved closed forest which is exactly the opposite scenario on national level.

In 2016, the Haribon Foundation in partnership with the Local Government of San Luis, Dinangalan and Gabaldon established the Mt. Mingan as Critical Habitat with its abundant in biodiversity. Mt. Mingan is a

part of Sierra Madre bordering the municipalities of San Luis, Dingalan and Gabaldon and not only a home to Haring Ibon but also to a wide variety of plants, insects, and birds.

Luntiang San Luis also benefitted the fisher folks both for inland and coastal areas. The Municipality of San Luis, Aurora promoted Palaisdaan sa Barangay providing 55,000 tilapia and ulang fingerlings benefitting 120 fishpond operators for food security, increased production and income of fish farmers from 3,451 kgs to 4,250 kgs per hectare. The municipality also partnered with the Bureau of Fisheries and Aquatic Resources to implement various fisheries development program such as distribution of shallow payao providing the increase of fish catch from 250 kgs to 504 kgs per fisherman per year.

The project brought social and environmental awareness to the community with the technology especially on protection of watershed, forest management, solid waste management, coastal resource management, gender equality, disaster preparedness, climate change adaptation and social responsibility. The community is more aware now with both local and national issues with most houses now have television. Barangay Dimanayat become more accessible now with base radio as means of communication even during calamities and bad weathers.

The new social awareness in the community also opened opportunities to the local government to provide additional program in these communities. The Municipality of San Luis, Aurora provided financial assistance to 3,514 indigent secondary students for their miscellaneous fees, rice allowance for 350 indigent students which are from Ditorin, Dibayabay and Alasanay who are enrolled at Dikapinisan National High School and Dimanayat Integrated School and school supplies to 8,408 elementary and high school students at the 4 coastal barangays.

With these programs, the Municipality of San Luis has reached 96.84% elementary participation rate and 89.00% secondary participation rate in 2015 which are both high higher compared to national level. On the same period, the elementary completion rate in San Luis is 97.73% and the secondary completion rate is 87.00% which are also both higher compared to national level.

The Dimanayat Micro-Hydro Power Farmer's Association is currently earning an average of six thousand pesos (PhP6,000) monthly from average fifty pesos (PhP50) the consumers pay monthly. The cooperative uses it for power plant operation and maintenance including the collector and plant operator. The cooperative also allot five hundred pesos (PhP500) as emergency fund for the members of the cooperative. During December, the monthly electric bill of the members are free of charge and the cooperative provides raffle item in their Christmas party.

PROMOTION OF PEOPLE'S PARTICIPATION AND EMPOWERMENT

People's participation is the key in Luntiang San Luis engaging the different stakeholders in the program's planning, implementation to the monitoring and evaluation.

Various consultations were made during the program planning attended by different stakeholders in the Municipality of San Luis, Aurora such as farmers, fisher folks, indigenous people, teachers, barangay officials, barangay health workers, barangay tanods, workers from local government unit, representative of various civil society organization and others to make sure the local acceptability of the project.

The Barangay Council of Dimanayat has also passed a resolution supporting the implementation of the Dimanayat Micro-Hydro Power Project. They also ensured that there is no person affected by the implementation of the project especially the Dumagat Tribe in Barangay Dimanayat.

The municipality of San Luis, Aurora implemented the program by contract but made sure the labor force except for the technical person working on the Construction of the Micro-Hydro Power Plant are all from Barangay Dimanayat. After the completion of the project, it was turn-over to the barangay cooperative for the operation and maintenance. The same cooperative is currently also part of the monitoring and evaluation of the project together with the technical personnel from the municipality.

The Barangay Dimanayat provided all the support for the implementation of the project. They provided the area where the powerhouse and weir intake (dam) were both constructed. The locals provided the wooden pole for the electric wire and carried the materials and equipment from the bay to the construction area providing them sense of ownership of the program.

In support of Luntiang San Luis, the community fully supported all the initiatives of the municipality by participating in Linis sa Barangay, 3 o'clock Habit, waste segregation, tree planting and other activities.

The Municipality of San Luis continuously implements program to empower the community by providing them skills and knowledge through training, barangay assembly, family development session and public consultation discussing gender equality, reproductive health, health and sanitation, solid waste management, climate change adaptation and other topics.

INNOVATION

Lunti-ang San Luis in Barangay Dimanayat has brought new perspective in forest protection and management. The past decade has shown how the national and local government as well as various civil society organization have tried and failed to stop carabao logging and kaingin in Barangay Dimanayat and the surrounding areas versus unemployment and poverty of many families in those communities.

The construction of micro-hydro power plant in both Barangay Dimanayat and Sitio Alasanay has brought social awareness in the community including the protection of watershed, forest management and social responsibility. With the electricity, television and radio have brought awareness to the community of the bigger picture on natural calamities and effects of forest destruction.

The agreement between the local government and the community that the municipality will provide the electricity but the people have to protect the forest ensure the forest protection and management for years to come.

To make Lunti-ang San Luis a reality, the local government has to provide alternative source of livelihood because it is impossible to stop illegal logging and kaingin with poverty, unemployment and low income looming in every family. Provision of planting materials, financial and technical assistance made sure that their new source of livelihood is sustainable. Cash for work program of the municipality is also being utilized in the implementation of the program.

Lunti-ang San Luis in Barangay Dimanayat is a great insight put into action by the Municipality of San Luis, Aurora and its partners to make a genuine difference to the people in the barangay resulting for an improved social awareness for both local and national perspective.

TRANSFERABILITY AND SUSTAINABILITY

Both micro-hydro power plant in Barangay Dimanayat and Sitio Alasanay are being managed locally by a barangay cooperative with the cooperative also makes its own policies on the collection, operation and maintenance of the power plant.

The Municipality of San Luis, Aurora is committed on expanding the program Greening the Local Community. Other than the two (2) micro-hydro power project in Barangay Dimanayat, the municipality also implemented the Development of San Luis Mini-Hydro in Barangay Ditumabo in partnership with Czech Republic and loan from Land Bank of the Philippines. In 2015, the San Luis Mini-Hydro Power Project has brought receipts amounting PhP 4,960,269.64 or 78% of the total local income.

The Municipality of San Luis, Aurora has also partnered with Center for Renewable Energy Strategies (CREST) since 2016 and Active Citizen Foundation, Inc. (ACF) this year to promote and ensure sustainability of the program. The Sangguniang Bayan of San Luis, Aurora is currently working on the ordinance declaring San Luis, Aurora as Center of Micro-Hydro in the Philippines to promote the program.

On October 2016, members of ACF from various municipalities and organizations has visited San Luis, Aurora and braved the four-hour boat travel to Barangay Dimanayat to see the project and replicate a 10KW micro-hydro power plant being run by local farmers and fisher folks.

The Dimanayat Micro-Hydro Power Project is originally designed to provide electricity to 120 households in 2006 but now currently overloaded serving 220 households. To augment the power supply, the Municipality of San Luis has constructed a 5KW Solar Power Plant in the barangay maintaining 100% renewable energy.

The Sangguniang Barangay of Dimanayat has already passed a resolution in support of Dimanayat Micro-Hydro Power Project for its sustainability. With the success of the program, the municipality of San Luis has realized that the local government relied deeply in their good relationship with the community but still need to have a legal instrument to ensure sustainability of the program and currently working on an ordinance in support of the program.

Moreover, the municipality of San Luis has already passed various ordinances to support Luntiang San Luis such as Ordinance Regulating Use of Plastic Bags/ Plastic Cellophane (MO No. 2011-006), Ordinance Providing for the Environment Code (MO No. 2012-008, Ordinance Establishing the Material Recovery Facility (MO No. 2013-004), Ordinance Creating the Municipal Solid Waste Management Board (MO No. 2013-006 and Ordinance Requiring the Segregation at the Source of all Household, Institutional, Industrial and Commercial Waste (MO No. 2013-003). The municipality of San Luis also passed Municipal Ordinance No. 008-2011 declaring August 21 as Araw ng Magsasaka in recognition of the contribution of agricultural sector in the development of San Luis.

Also in support of Luntiang San Luis, the municipality of San Luis has an approved Coastal Resource Management Plan (FY 2013-2017) and also drafted the Forest Land Use Plan (FY 2016-2025) and Revised Solid Waste Management Plan (FY 2016-2025) which is currently on review by national agencies.

"We certify that to the best of our knowledge, all of the information contained in this Application Form and annexes are true and accurate

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