

ANNUAL REPORT 2019



MESSAGE FROM THE PRESIDENT

The Alternative Indigenous Development Foundation, Inc. (AIDFI) is proud to present to our stakeholders the Annual Report 2019.

Like all other institutions or foundations, the activities of AIDFI are anchored to its vision of creating a society where technology and development systems exist in harmony with nature and serves as foundation of growth and sustainable development where people share and live in abundance and happiness and where there is peace, freedom and equity.

For many years, AIDFI has quietly worked in upland areas where water is available at hundreds of meters distance. Ram pump utilizes water potential energy to push water up to 30 times its vertical fall. With Coca Cola Foundation as its funding agency through the Agos Ram Pump project, a sustainable water system is established providing access to water either for drinking, household use or agriculture water system. Agos ram pump project has reached Apayao in the furthest North and Lanao del Sur in the Southern part of the country.



Aside from Ram pump, AIDFI also has developed plastic shredder, lemon grass distiller, and other appropriate technologies that are environment friendly. These technologies provided livelihood and alternative solutions to degrading environment due to insensitive Filipinos randomly harming our mother Earth.

All the accomplishments were made possible due to the hard-working men and women of AIDFI. The Board of Trustees and the Management team are regularly meeting themselves to discuss strategies and programs that would lead to the realization of AIDFI VMGO. Kudos to our Founder and CEO Mr. Auke Idzenga who is constantly in contact with our partners and other interested parties that trust the direction of AIDFI. Mr. Idzenga was named 'Engineer for the poor' by JCI Manila during their search for Saint Teresa of Calcutta Award. Moreover, AIDFI cannot complete its mission to help facilitating empower communities, gender equity and cultural diversity if not by the support of government agencies such as Department of Agriculture (DA) and Sugar Regulatory Administration (SRA) and private sectors like the Coca Cola Foundation as major partner in 2019.

We wish to convey AIDFI gratitude to our Chief Operating Officer Mr. Che Idzenga for painstakingly leading the management team and for coming up of this Annual Report 2019. We pray that year 2020 will be as good as 2019 or even better having our staff fully equip with the cutting-edge technology just to ensure that the program is delivered effectively and efficiently.

Mabuhay!

Engr. Christopher Taclobos
President

MESSAGE FROM THE CEO

With great pride we are hereby presenting the year report for 2019. A jury member of the Best Innovation Award in the Netherlands, where we were in the top ten, described us as a steady moving train and I agree if she was referring to AIDFI as having a clear direction, proven concept, programs, on time schedules and able to replicate and scale up. What I would like to add to that is that we are also continuously innovating.

A steady train sounds maybe boring, but a lot is happening. Our work in the uplands all over the country is taking place in scenic areas and unique communities, ordinary people would need to pay for such experiences as a tourist. Our staff integrates in such places for about two months.

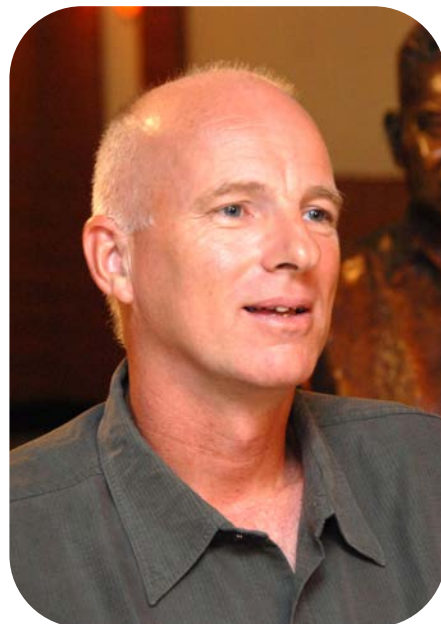
AIDFI has complete assets like its own lot and building, precision machines and equipment's, full set of staff, means of transportation, income generating coffeeshop and our new Product Development Center. The most important asset is of course our staff. We were happy that two staff returned to AIDFI after having left us for some time for different reasons. We are also proud that nearly all staff are working with us on a regular basis for them to have assurance of work and to be able to fully concentrate on their assignments.

Despite AIDFI being in manufacturing and installation of ram pumps (our flagship technology) for 27 years, it is and will never be boring. Each system is different, and each community is different and there are new excitements build in the program. For example, we realized some time ago that the causes of non-working ram systems could be traced back to organizational issues. We also observed unfair distribution of the water and difficulties in collecting the monthly fees from the households. For this AIDFI developed a water dispensing kiosk powered by solar and operated on coins providing 20 liters of water for one peso (2-dollar cent).

Another challenge was to monitor the already so many sites all over the country. For this a monitoring App was developed and initially piloted in some projects. Right now, each new project is issued a mobile phone with App.

Our sincerity and seriousness in helping the poor has paid off. The Coca-Cola Foundation Philippines, Inc. has expanded their programs with us. Where it first concerned purely ram pump systems for drinking, we are now cooperating on ram pumps for irrigation and product development around plastic recycling.

We also now work with more additional stakeholders, like the Special Area for Agricultural Development (SAAD) under the Department of Agriculture (DA) and the Sugar Regulatory Administration (SRA), also under the DA.



We also started on the preparations of the new Essential Oil factory in Murcia with the funding received from the Australian Embassy.

This year many systems and structures were reviewed, and several changes were made (like new stockroom, additional storage at coffeeshop, re-arrangements in workshop, the storage for finished technologies and kitchen with eating area for the staff).

AIDFI was this year several times recognized for its work. It was a winner of the Globe Future Makers and went to Singapore to join other regional winners from Globe associates. Then AIDFI got again to the second round of the St. Andrews Prize (result still unknown). Last September AIDFI went to Holland since it was shortlisted as one for ten Best Innovations and second time around AIDFI became a finalist in the Energy Globe Award after being announced the country winner. AIDFI went for this the Energy Globe Days to Finland but was not chosen as the winner. Probably AIDFI is the only organization, reaching twice the finals out of hundreds of projects. The big news came from the prestigious Zayed Sustainability Prize 2020 where AIDFI is a finalist in the Water Category and will travel in January to Abu Dhabi to find out if it is a winner. It is not a coincidence to be selected several times to one of the best out of thousands of other projects.

We are thankful for those (individuals and organizations) who believe in our work and we hope you will continue to support us.

We are ready and confident for another year of doing exciting projects, innovations and have even greater impact in poor communities.

Auke Idzenga
Chief Executive Officer



ENSURE AVAILABILITY AND SUSTAINABLE MANAGEMENT OF WATER AND SANITATION FOR ALL



785 MILLION
PEOPLE REMAIN
WITHOUT EVEN

**BASIC
DRINKING
WATER**

SERVICES (2017)



**2 OUT OF 5
PEOPLE**

WORLDWIDE

DO NOT HAVE

= A BASIC =
HANDWASHING
FACILITY WITH
SOAP AND WATER
AT HOME (2017)

1 OUT OF 4

HEALTH-CARE FACILITIES
WORLDWIDE LACK BASIC
DRINKING WATER SERVICES
(2016)



BY 2030,
700 MILLION
PEOPLE COULD BE
DISPLACED BY
INTENSE
WATER SCARCITY

673 MILLION
PEOPLE (9% OF THE
GLOBAL POPULATION)
STILL PRACTISE
OPEN DEFECATION
(2017)

THE MAJORITY OF THEM
ARE IN SOUTHERN ASIA



2 BILLION PEOPLE LIVE
IN COUNTRIES EXPERIENCING
HIGH WATER STRESS

SDG 6 “Ensure availability and sustainable management of water and sanitation for all”. Had several targets of which only the first two will be mentioned:

- 6.1 By 2030, achieve universal and equitable access to safe and affordable drinking water for all.
- 6.2 By 2030, achieve access to adequate and equitable sanitation and hygiene for all and end open defecation, paying special attention to the needs of women and girls and those in vulnerable situations.

However as of 2019 of 172 countries 60 per cent of countries are unlikely to reach the target of full implementation by 2030.

How is that for the Philippines? AIDFI looked at the website of the Philippine Statistics Authority PSA) but it doesn't give any targets or indicators for the most important SDG 6 targets 6.1 and 6.2. even as of October 2019. If there is no data, how can we plan out programs?

AIDFI only have some general data at hand: In the Philippines, there are only 146 billion cubic meters of freshwater for over 107 million people, leading the country to experience what the United Nations Water (UN Water) calls water stress. Water stress occurs when the demand for water exceeds the available amount.

It always was strange that there were so many departments involved in doing water projects, like DOH, DPWH, DILG, DA, DAR, DENR and nothing seemed coordinated. Some projects here, some projects there.

Also, AIDFI have never understood that there are no Mayors or Barangay Captains (as far as we know) who at least looked in all water problems in their respective areas and came up with a comprehensive plan coupled with costing. Such a plan could have been used by them to lobby for water programs or projects from government, NGO's or funders. It should not be difficult to assess all communities on their water problems and scout for solutions and get a cost calculation of such solutions.....

Lately there have been talks about a single office to handle the issues around water, irrigation etc. Last June (2019) the House Committees on Public Works and Highways and on Environment and Natural Resources on Tuesday adopted a proposed measure that seeks to create a new government office to rationalize the country's water, irrigation, sewage, and sanitation systems as part of long-term measures to prevent a water crisis. House Bill No. 8068, or the “Department of Water, Irrigation, Sewage, and Sanitation Resource Management Act of 2018,” was filed.

There is also an initiative of the Philippine Business for Social Progress which started in 2015, namely the Water Alliance: a multisectoral coalition led by CEOs who are committed to create solutions to the water problems in the Philippines. Last October, the Alliance organized the Water Forum 2019 and four clusters presented their accomplishments and plans for moving forward in addressing the water crises. Water for Waterless Communities Cluster Head and Coca-Cola Foundation President Cecile Alcantara emphasized the need for more water-related projects in communities around the country and encouraged businesses to help in this cause.

There are other factors why uplands (our main target) are having difficulties in easy accessing sources:

- Many initiatives are politically motivated, so around election time.
- Stakeholders not familiar with technological solutions.
- Mountainous terrain is often difficult for hauling and installation and projects for implementors not attractive enough.

Then finally and which many people even refuse to mention, is that a lot of programs and projects are transactional making them inferior in quality and sustainability.

It was confirmed by the COA that the Philippines loses 700 billion pesos per year on corruption. Let's spell out the amount to see how many quality ram pump systems we could do with that money: 700,000,000,000 divided by 2,000,000 (per community water system) = 350,000 systems or communities. There is therefore no financial reason not to solve the goal and targets for SDG 6.

Also, there is no problem in terms of workable solutions. In big events where AIDFI was invited to speak, it was mentioned by the organizers (and we fully agree with them) that there already so many solutions to solve basic problems, especially water. Compared to the period in which AIDFI started and it was much more challenging to work on technologies because of difficulties in accessing information, difficulties in communication and expensive financial transactions, developments around and implementation of water solutions can go much and much faster!

The AIDFI ram pump is one of those solutions. Unfortunately, the technology is still unknown to many even though it exists for over 240 years. It is a forgotten technology taken over by the Industrial Revolution but for which there is a huge need and therefore market not only for drinking and household but also for irrigation. The ram pump technology is very much sustainable compared to ground water suction, since it utilizes free flowing (run-off) water and only uses a portion of the water going through the pump. It is water powered and doesn't pollute and is placed under complete control of the communities, both organizationally as well as technically.

AIDFI would love to engage itself more in the advocacy on water but in the absence of opportunities (for different reasons) concentrates itself on the job on the ground, which is manufacturing of quality ram pumps and implementing holistic community water systems using ram pumps in waterless villages.

AIDFI hopes to attract or find a few more (independent) installation teams in the Philippines which it can train and supply with ram pumps and carry out a few more international complete technology transfers.

OUR VISION

“A society where technology and development systems exist in harmony with nature and serves as foundation of growth and sustainable development where people share and live in abundance and happiness and where there is peace, freedom and equity”

OUR MISSION

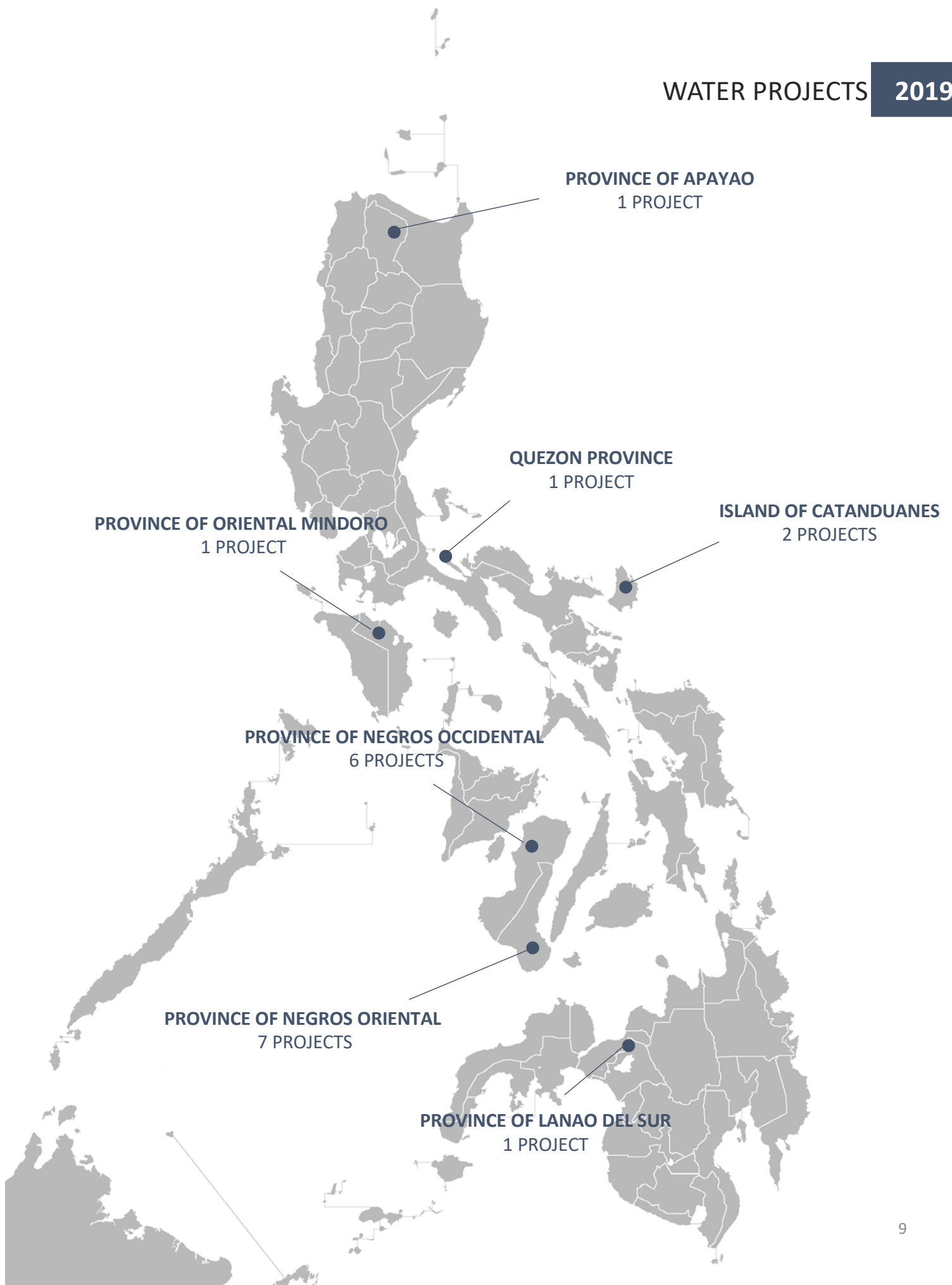
AIDFI is:

Dedicated to excellence in the development and for promotion of appropriate technology and social enterprises for sustainability development;

Committed to effectiveness and efficiency in development management;

Committed to help facilitating empower communities, gender equity and cultural diversity.

WATER PROJECTS 2019



SUSTAINABILITY

Sustainability for AIDFI is the ability for both man and nature to co-exist constantly and harmoniously together. That is why with the development of its technologies it ensures that a holistic program is established around the technology. It involves everything from survey, social preparation to post-project monitoring. Even though, AIDFI's intervention is short-term but it ensures that all vital aspects of the projects are touched.

HOLISTIC PROGRAM

Survey



The survey takes a couple of days and is divided into 4 phases: project information, community engagement, technical and community survey & presentation of proposed project.

During project information phase the Community & Enterprise Development Coordinator (CEDC) meets with the town mayor and barangay officials to give a brief orientation on the project and the proposed service area. It is also during this phase the Coordinator explains about the process of the project and requirements needed.

After which, the CEDC together with the Technical Services Coordinator (TSC) meet with the community people to present the opportunity to propose the water system project in their community. During that time data gathered (technical and community) during the pre-survey process at the time of their application is presented and validated, in other words all options are put on the table for discussion. The community members are required to fill-up the baseline survey which is then attached to their community baseline profile upon completion of the survey. The discussions involve finding out the best sources of water and service area reachable by the system.

Once the agreed upon variables by the community are in place a final over-all survey is done which takes 1-2 days. It is at this phase when all data pertaining to the structures are placed. The technical data such as actual flow rate of source, diversion distances (if needed), drop and delivery height and distances are collected. The placement of the reservoir tank and distribution points are also identified and recorded. All the while selected community people who have good knowledge of the area together with the Community & Enterprise Development Coordinator identify landowners for the right of way and right to use agreements.

When all is done the team prepares the final presentation of the water system to the community prior to the preparation of the technical study to be reviewed and submitted by AIDFI to the project sponsor. The final presentation to the community signifies that the proposal for the water system is agreed upon by all parties and the commitment to the project is also expressed by the landowners, community people and barangay officials.

Fabrication

The fabrication is done upon the approval of a project. It involves the preparation of materials needed by the system which are pre-fabricated in AIDFI's shop with precision machines. The fabrication is simultaneously done together with the social preparation process and can take anywhere between 2-3 weeks.

Ram pumps are already in stock or were fabricated after survey was concluded which are then made readily available to be brought to the community.



Social Preparation

The social preparation is a process which involves project orientation, community organizing and preparation of the legalities. Right after a project is approved the CEDC plans out and coordinates with different stakeholders on the processes to be undertaken and the given timeline of it to be put into the project team plan.

Whilst fabrication is on-going the CEDC travels to the project site to conduct project orientation at the LGU, BLGU and community.

An orientation is done during the session of the LGU so that they are made aware of the project and the responsibilities are made clear. No counterpart is usually required but any assistance provided during the project is always welcome. After which the same is done at the BLGU level and a Memorandum of Understanding is signed.



The community orientation is done right after the signing of the Memorandum of Understanding.

All communities are required to be organized before commencement of the project installation. The CEDC facilitates the process of organization. If no organization exists, the CEDC assists in the formation of the association where the members democratically decide on the name of the association and officers.



The constitution & by-laws of the association are also drawn up during this stage together with the organizational structures.

The membership fee for founding members and new members are decided as well as different committees are then formed. The election of the Board of Directors and Executive Committee are also done on the same stage.

After completion, the documentary requirements for the registration process are prepared.

The documents are submitted, and the association is then registered with the governing agency. After registration has been accepted a Memorandum of Agreement between AIDFI and the association is signed detailing the roles and responsibilities of the parties during and after the project. After which, other legalities of the project are prepared and signed such as the Right to Use and Right of Way Agreement between the association and the respective landowners. Once legalities of the project have been completed, AIDFI starts purchasing the materials needed and final preparations are then made in anticipation of the delivery and installation of project.

A training needs assessment is done to identify the communities' level in terms of management and leadership skills as well as other skills pre-existing in the community. The training needs assessment becomes the guide to prepare the necessary training (basic or advanced) level of engagement.

Delivery of Materials

At this point, the materials are loaded onto the trucks in Bacolod ready to be delivered to the project site.

It takes usually 1-3 days to deliver the materials depending on the distance from Bacolod. The logistics team ensures all materials are delivered to the project site during the first weeks of the project. Upon arrival on site, the unloading of materials is done through bayanihan (volunteering) activity.



Project Setup

A vital step to the process is the setup of the project at the start. The project team which is composed of the CEDC, TSC and Technical Services Personnel (TSP) meet with all the stakeholders involved from the BLGU to the community association officers and members.

The installation team is introduced to the community and project needs are identified and agreed upon.

This done upon arrival of the project team.



A project plan is drawn up which ensures a smooth operation of the project during the installation phase. Lay-outing of the site is done during the first day and the installation immediately commences.

Installation



The installation process begins with the clearing operations at the source where the ram pump and its structures such as the impounding tank or dam, diversion pipelines, catchment tank, drive pipe with support stands and ram protection housing are located.

Simultaneously the layout of the reservoir can already be done within the community. The delivery pipeline which leads from the ram pump to the tank will also serve as the source of water needed for the construction at the community.

The structures at the community are the reservoir tank with a level 2 distribution systems and tap points which may either be communal faucets or water kiosks for fair distribution. During the entire installation process people from the community are involved in the process from skilled masons to the locally trained ram pump technicians usually 2-3 persons who are trained during the installation, so they know the ins and outs of the project.

After training the local ram technicians are equipped with tools needed for troubleshooting and maintenance of the system. A person from the community hired by AIDFI for the duration of the project manages the local labor in close coordination with the TSP and CEDC.

Trainings

For the association to become sustainable various trainings are provided based on the training needs assessment done. Some of the trainings are done by AIDFI whilst others may be linked to different agencies of the government or even other NGOs who also provide their trainings.

AIDFI's training can either be basic or advanced depending on the community's level. The difference can be seen in the table below.

	BASIC	ADVANCED
Water resource management	✓	✓
Leadership skills training	✓	✓
Team building exercises	✓	✓
Organizational values formation		✓
Interpersonal values formation	✓	
Project management	✓	
Enterprise Management		✓

Water resource management discusses how the community manages the water delivered by the system, this can either be for drinking or irrigation needs. It helps communities draw up a water resource plan so that they may manage the system efficiently.

The leadership skills training on the other hand enhances the ability of the selected leaders and future leaders on how to handle different scenarios that a leader may face. It also discusses the different leadership styles. This is equipped with a team building exercises which builds stronger connections between the leaders and members.

Organizational values formation focuses on the overall values that exist in the association and helps develop it further by creating core values that the members should be able to internalize further. Interpersonal values formation focuses more on the individual leaders.

Project management enhances the association to handle a specific project from implementation to monitoring and evaluation whilst enterprise management focuses on the capability of the association to handle different projects which involves more advanced bookkeeping and proposal writing,

Overall the target of the trainings is to be able to equip leaders and selected members to become trainers themselves which is necessary to be able to identify potential future leaders and pass on to the next generation the ability to manage the association towards a more sustainable enterprise for future generations to benefit from.

Project Monitoring

During this stage, the TSC with the CEDC go the project site to monitor construction and changes made during the construction if any. At the same time, the ram pumps are tuned by the Technical Services Personnel and hands-on examination of the local ram pump technicians is conducted to ensure that they have been fully equipped with the needed skills.

A meeting with the association officers is done to discuss the next steps of the project and the preparation for them to receive the project after completion. Tank painting is also done during this stage.

The project nears its completion and actual output is reached by this time.



Final Inspection



At this point of time, all the ram pump structures have been constructed, painted and set to the expected standards of AIDFI.

An inspection team from AIDFI which is composed of a Technical and Community & Enterprise Development inspects the whole system according to the project monitoring report submitted. The inspection involves checking every aspect of the project from structures to organizational to ensure that the project is ready to be conveyed to the beneficiaries.

Only when the final inspection has been cleared does the installation team leave the project site.

An exit meeting is done with the officers of the association and BLGU for feedbacking of the project. After the final inspection is done, the CEDC starts the preparation for the conveyance of the project.

Project Conveyance

When the preparations for the project conveyance have been made, the CEDC travels to the site to make the preparations on-site with the community. This is done 5 days in advance of the program.

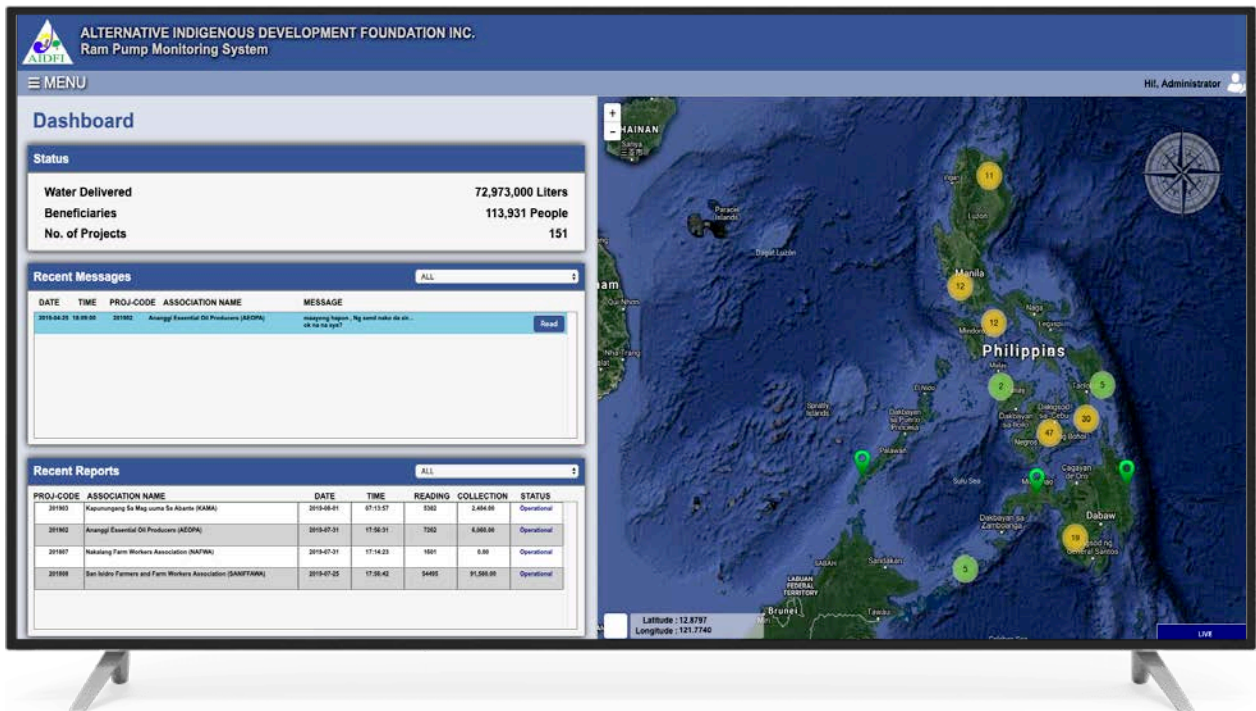
Key stakeholders are invited to the event such as the project sponsor, LGU and BLGU to be part of the official conveyance of the project to the association.



Post Project Monitoring

It is AIDFI's vision to see each system in operation delivering the much-needed water to the communities it has installed a ram pump in. In its quest to do so, we have developed an app which provides us with an overview of all systems installed and operations.

The app is connected to a web platform which consolidates and presents the data.



Each community is provided with a mobile phone where the app is installed. The app features such as water meter reading, technical support and system settings.

The water meter reading captures data from water delivered by the system to the community. It also provides us with the information that the pumps are performing according to the setting after final inspection.

Technical support is a messaging feature within the app which connects communities directly to support personnel of AIDFI to handle inquiries or provide solutions to technical problems not able to be handled by the local ram pump technician, it also features a video section with videos on how to troubleshoot and maintain the ram pump system.

System settings provides us with a status update if the system is operational or under repair.

**THIS IS WHAT WE
HAVE DONE
SO FAR...**



**25,987 FAMILIES
117,101 PEOPLE
BENEFITTED**



**7 BILLION +
LITERS OF WATER
DELIVERED
TO 166 VILLAGES**

AND COUNTING



RAM PUMP PROJECT

The Agos ram pump project is a joint project of the Coca-Cola Foundation Philippines, Inc. and the Alternative Indigenous Development Foundation, Inc. in providing accessible, reliable and sustainable water system through the hydraulic ram pump which utilizes the energy of flowing water to push up water to a higher elevations (up to 30 times its vertical fall).

The project started in 2012 as part of the Coca-Cola's global water stewardship program with its aim of returning the water used in the production of beverages and its facilities back to nature or people.

The project aims to provide clean water to upland waterless communities to uplift their lives significantly through short term technical intervention and long term social/organizational intervention.

In 2016, it reach its goal of 100 communities in the Philippines this was part of the initial commitment of 100 communities for 100 years of Coca-Cola in the Philippines. Since then it has already done 166 ram pump projects all over the country.

In 2018, the program expanded to small-scale irrigation systems with the use of hydraulic ram pumps for small upland farmers and has been partnering with the Department of Agriculture in two of their programs Special Areas for Agricultural Development (SAAD) and Block Farming of the Sugar Regulatory Authority (SRA).

Ag S

Water for
Productive
Use



SPECIAL AREA FOR AGRICULTURAL DEVELOPMENT 2019

The Special Area for Agricultural Development (SAAD) is a locally-funded program of the Department of Agriculture (DA), intended to help alleviate poverty among the marginalized sectors on agriculture and fishery.

Coined after the Visayan word “saad” which means promise, the SAAD Program is a breakthrough of former DA Secretary Emmanuel F. Piñol as part of the thrust of President Rodrigo Duterte to increase food production and reduce poverty in the Philippines.

Through the SAAD program, a total of 30 priority provinces with high poverty incidence rate among families have been given assistance in both agriculture and fisheries since year 2017.

<http://saad.da.gov.ph>

FUNDED BY



PROJECT PARTNER



IMPLEMENTED BY



1,025



18,547,000

1. BRGY. UPPER ATOK, FLORA, APAYAO
2. SO. PALAYPAY, BRGY. ABANTE, PAMPLONA, NEGROS ORIENTAL
3. SO. PAN-AYAW, BRGY. BANTOLINAO, MANJUYOD, NEGROS ORIENTAL
4. BRGY. SAN MIGUEL, PANGANIBAN, CATANDUANES
5. SO. LOWER TABALOGO, BUDLASAN, CANLAON, NEGROS ORIENTAL
6. BRGY. SAN PEDRO, GIGMOTO, CATANDUANES
7. SO. ANHAWAN, BRGY. LUYANG, MABINAY, NEGROS ORIENTAL

BLOCK FARMING 2019

The SRA, pursuant to the Sugarcane Industry Development Act (SIDA) or Republic Act 10659, is mandated among others to institutionalize, enhance and support the farmers specifically the Block Farm.

The SIDA provides that the SRA and other concerned government agencies shall provide common service facilities, such as farm machineries and implements, grants or start-up funding for the needed production inputs, technology adoption, livelihood and skills training and other development activities for the Block Farms and their members, and other support activities that may be identified.

<https://www.sra.gov.ph>

FUNDED BY



PROJECT PARTNER



IMPLEMENTED BY



378



1,103,000

1. SO. DANAWAN, BRGY. TARA, MABINAY, NEGROS ORIENTAL
2. SO. CABAGAL, BRGY. BUENAVISTA, HIMAMAYLAN CITY, NEGROS OCCIDENTAL
3. HDA. CANDELARIA, BRGY. PURISIMA, MANAPLA, NEGROS OCCIDENTAL
4. SO. TRES MARIAS, BRGY. AGPANGI, CALATRAVA, NEGROS OCCIDENTAL
5. SO. COMMON, BRGY. BASAK, BAIS CITY, NEGROS ORIENTAL

HDA. CANDELARIA, BRGY. PURISIMA, MANAPLA, NEGROS OCCIDENTAL

One of the identified block farming communities from the Sugar Regulatory Administration (SRA) was Hacienda Candelaria located in Brgy. Purisima, Manapla, Negros Occidental. The selected beneficiaries of the Candelaria Farmers Association were a small-scale irrigation system through the hydraulic ram pump funded by the Coca-Cola Foundation, Inc. (CCFPI) was implemented last July 2019 and completed on September 2019.

The farmers association has allocated 33 hectares for block farming and from it 2 hectares initially for diversified farming in a demo farm which was established some time ago, before the ram pump was implemented the only source of water for the demo farm was through a hand pump which was barely even enough to cover 50 square meters. This proved to be ineffective and at times the hand pump would break down fast.



The project benefits 28 farmer families in total, Ms. Corazon who is the current chairperson told us their plan to use the water delivered to produce food for local consumption and eventually supply to the local market in the Manapla town. For this, they have allocated another 1 hectare for expansion after the sugarcane harvest season.

The system is composed of a 6" hydraulic ram pump which can pump up 36,000 liters a day.

AUTOCAD EXPERTEER TRAINS AIDFI PERSONNEL



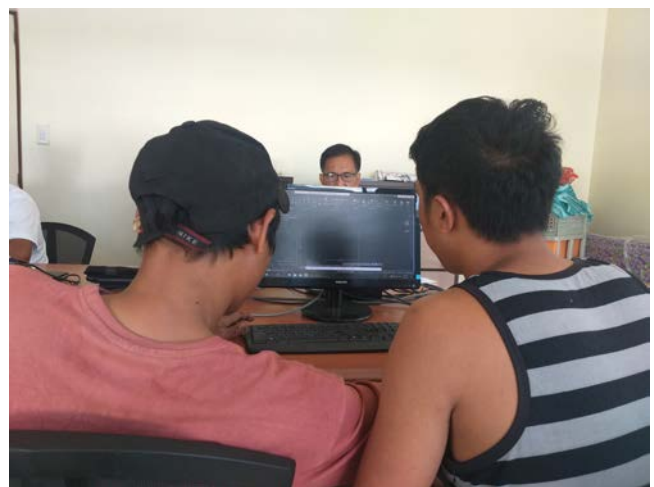
In March 2019, another volunteer through the MovingWorlds website sponsored by Siemens Stiftung stayed with AIDFI for 6 months to teach personnel with basic to intermediate AutoCAD.

AutoCAD is a commercial computer-aided design (CAD) and drafting software application. ... AutoCAD is used in industry, by architects, project managers, engineers, graphic designers, city planners and other professionals.

Stephen Green-Price was born in Manila, the Philippines and moved to the UK when he was 10 years old. He studied Civil and Coastal Engineering at Plymouth University and graduated with a Masters Degree. He works as a civil engineer in the transportation sector in London. His passion is in travel, seeing new places and meeting new people.

For some of the personnel it was their first time to use a computer, but their perseverance and great teacher would prove that it would not be hindrance to learning. After just a few lessons, some of the personnel were already flying through the lessons. The lessons were done twice a week each with 2-hour sessions. Aside from the lessons on AutoCAD, we were able to get lessons on Sketchup which would help AIDFI in designing 3D models.

In between lessons, Stephen assisted the surveying team converting manual practices into automatic calculations in Excel and other programs. He also helped finish the ram pump production manual to be used for internal training of new production personnel and for technology transfer. On trips to the projects (survey & on-going), he was very helpful with his drone and showed AIDFI the different uses it could apply to its work, some of the personnel were taught on how to operate a drone.



FILMING FOR THE “NOMAD OF THE SEAS” EXPEDITION AT AIDFI



In April 2019, a French film crew visited AIDFI as part of the Low-tech Lab - Nomade des Mers.

For 3 years a sailing ship laboratory travels the world searching for low-tech innovations. These are simple innovations that meet basic needs (access to water, food, energy, materials, tools, etc.), using local and eco-friendly material. The goal is to spread these technologies through the realization of internet tutorials and documentaries for French and German television, so that they would be available for as many people as possible.

We did film ram pumps in the AIDFI shop and in the community of Anangue (ram pumps for essential oil production and processing).

http://lowtechlab.org/wiki/Nomade_des_mers

BLASTIK: THE BALIK PLASTIC BOTTLE PROJECT



The Blastik Project is a full-circle plastic bottle collection, recovery and recycling program funded by The Coca-Cola Foundation. It aims to become a viable and sustainable solid waste management program that can be easily replicated by small communities in the Philippines and should substantially reduce the volume of plastic waste in the barangay level.

Objectives:



- Increase the collection and recovery of plastic (PET and HDPE) packaging in the form of bottles, caps and labels;
- Build and establish a Product Development Center with the end output of a product/s or product line for use in vital structures within the barangay (e.g. schools, barangay hall, day care centers, health centers, etc.);
- Build and establish a materials recovery facility and showroom within the barangay which shall serve both as display for end products, operations center as well as IEC center for different institutions to learn how to replicate the program;

For this project two locations were selected: AIDFI in Bacolod City where the product development center is located and where the development of product lines which includes machines used in the recycling process as well as end products which may then be replicated further in the barangay.

The location selected as the pilot site for the project was PeacePond located in Brgy. Enclaro, Binalbagan, Negros Occidental.

PeacePond is a seaside haven managed by the PeacePond farmers association composed 24 active farmers and has since 2004 been involved in the educational campaign for Solid Waste Management conducting SWM workshops all over the Philippines.

PeacePond has been actively working with different stakeholders in the barangay as well as the local government unit.



The Blastik Project collection and recovery process involves going around the barangay using low-carbon emitting e-bike (Blastik E-Bike) also serves as the IEC for the project and is driven by the Blastik Eco Rangers (Blastik Men and Blastik Girls) collecting PET bottles and HDPE caps and labels from beach resorts, offices and households around 4 days a week. The project uses two kinds of rewards system for its collection and recovery program: Cash back and trade. In cash-back, residents or offices get paid in cash for the weight of PET bottles and HDPE caps which are collected from them. In trade, they get items/goods in exchange for the weight of their PET bottles and caps.

The collected and recovered PET bottles, HDPE caps and plastic labels are then delivered to the MRF which temporarily houses all PET bottles collected from the barangay and are encoded by type, weight and other details. They are cleaned, washed, dried and segregated for their respective upcycling.

PRECIOUS PLASTIC

Precious Plastic was started in 2013 by Dave Hakkens, a Dutch Industrial Designer who observed that plastic recycling was nearly only done on industrial level. He wanted it to be community based and developed small scale machines for open source. The whole concept soon snowballed and became a global community with huge interest and participation. The whole concept is now at its third version counting on dozens of people working on the project, remotely or on site. Knowledge, tools and techniques are shared online, for free.

AIDFI got to know about the idea and machines early stage (2016) and started fabricating the set of machines from Precious Plastic. It took some time since AIDFI is not based in Manila to easily search for appropriate parts. This part has passed and AIDFI did produce already some machines and there is a demand for the machines.

AIDFI had the same observation as the Precious Plastic team, which was that the machines are somewhat too small in capacity. With prize money from an award the Precious Plastic Team went on an amazing tour (idea). They got 40 people from all over the world together for developing a holistic package around the development of machines. The result will be launched on January.

Our CEO Auke happened to be in the Netherlands when the yearly Dutch Design Week was taking place in the town of Eindhoven and Precious Plastic which operated from a factory in the same town which was provided to them for free for a year joined this Week. Auke stayed a whole day at their exhibit and demonstrations and returned super excited with lots of impressions and ideas. This is all so timely with the finished Product Development Center built at AIDFI (thanks to Coca-Cola Foundation). So expect a lot of new things going on in the Product Development Center in 2020.



FUTURE MAKERS 2019

AIDFI participated in the Globe Future Makers contest and was shortlisted to pitch for a group of 5 judges at the Globe HQ in Manila. It worked out well and AIDFI ended up as one of the winners and was even selected to join the Asian Venture Philosophy Network (AVPN) Summit and present in one of the events in June in Singapore (see picture). Along the AVPN Summit there were activities organized by Singtel and attended by their Regional Partners (including Globe Telecom) from Philippines, Australia, Thailand and Indonesia.



ENERGY GLOBE AWARDS 2019



In 2008 AIDFI was selected for the Energy Globe in the category water and attended the ceremony held in the European Parliament. This year AIDFI was first informed that it won the country award of the energy Globe and received from Advantage Austria in Manila a certificate. Some time after AIDFI received an e-mail informing that it was a finalist in the water category. AIDFI with its CEO attended the Energy Globe Days in Espoo, Finland, where it displayed a working miniature of the ram pump and gave a presentation. Unfortunately, second time around AIDFI was (again) not chosen as the winner. The winning project was Cloud Catcher from Morocco.

THE SAINT TERESA OF CALCUTTA AWARDEE 2019 OUR CO-FOUNDER AND CEO



The Saint Teresa of Calcutta Award is an annual project of JCI Manila and the Alfonso Yuchengco Foundation, Inc. since 1983 and intended to focus public attention and confer recognition to those who, like Saint Teresa, have dedicated a significant portion of their lives in the service of the “poorest of the poor” and have served, and shall continue to serve, as an inspirational, living example to the world.

“We are honored to present the award to Mr. Auke Idzenga, who, apart from embodying Saint Teresa’s message of profound love for the poor, is also an inspiration for helping in improving the lives of others,” said JCI Manila president LA Sevilla.

Auke was named ‘Engineer for the poor’

Chairman of the AY Foundation, Inc. said that they recognized and honored a person whose life and work embodies the ideals that guide also their foundation: integrity, dedication and innovation.

AIDFI MINIATURE IN BSWM SOIL MUSEUM



In 2012 the hydraulic ram pump as a technology became institutionalized in the small-scale irrigation program of the Bureau of Soils and Water Management (BSWM) under the Department of Agriculture. It was chosen as one of the three Alternative Prime Movers together with wind and solar pumps. AIDFI installed itself ram pumps to this program for High Value Crop Production and supplied others who installed for the BSWM.

Since the Agricultural Engineers of the BSWM are nearer to the projects than technicians from AIDFI or the once who installed the systems, the idea came up to train these engineers in the Operation and Maintenance of Alternative Prime Movers for Pump Irrigation System (APMPIS). Already twice AIDFI staff were resource persons in trainings held in Zambales and Cavite.

Lately the BSWM opened its Soil Museum and AIDFI donated a miniature set of the hydraulic ram pump for display in this museum.

BSWM staff are involved in the program of ram pumps for productive use with the Special Area for Agricultural Development (SAAD) funded by Coca-Cola Foundation, Inc. in terms of identifying and initial surveying of feasible sites.

PRODUCT DEVELOPMENT CENTER FOR PLASTIC RECYCLING



The construction of a low-cost product development center at AIDFI compound was started in April 2019 and was completed on August 2019. The center features a storage area for recovered plastics (shredded) and ample space for machines, product molds and even product prototypes. Part of the center is a workspace to work on new innovations.

The product development center is part of the Blastik Project which is funded by the Coca-Cola Foundation, Inc. AIDFI will develop further the machines, molds for products and manuals to document the processes involved that can be used in the small-scale plastic recycling process replication

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THE WOMEN AND MEN BEHIND AIDFI



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