

Community-managed Potable Water, Sanitation and Hygiene (CPWASH) in Agrarian Reform Areas

SHARED GROWTH SEMINAR



Department of Agrarian Reform
Bureau of Agrarian Reform Beneficiaries Development



WASH Coalition



Philippine Center for
Water and Sanitation

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Community-managed Potable Water Sanitation and Hygiene (CPWASH)



PCWS, DAR BARBD, ARCs & LGUs: Partners for CPWASH



Community-managed Potable Water Supply, Sanitation and Hygiene (CPWASH) started in 4 pilot areas in 2007 and continues to this day in 39 communities.



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Background

- Community-managed Potable Water Sanitation and Hygiene (CPWASH) project between the Department of Agrarian Reform [DAR] and the Philippine Center for Water and Sanitation [PCWS] partnership since 2007.
- Contributes to the MDG 7 related to reducing the huge proportion of people without access to safe drinking water and improving sanitation.
- Upholds participation. Cooperation. Capacity building. Enterprise creation. A platform for change
- Initially reaching out to 29 ARCs prioritized as communities in greatest need of potable water
- CPWASH models a theory-based intervention that addresses water, energy, health and promoted green local economy.
- About 1.1 million Agrarian Reform Beneficiaries' households requires upgrading from the current level 1 water system to improve quality of water and sanitation.



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Low-cost WASH Technologies

- These technologies offer new, effective, affordable and inclusive pathways to water security and poverty reduction.
- WASH contributes to health and environmental improvement and long-term social and economic development.



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Objectives

The CPWASH broadens opportunities through sustainable agribusiness and rural enterprise development [SARED]. Congruent with MDGs No. 7 which ensures environment sustainability and health concerns.

In a 6 to 8 months duration, Install low-cost water supply technology and sanitation systems in an ARC:

- 1] Construct iron removal filter and bio-sand filter as water treatment facilities;
- 2] Build bio-gas digester septic tanks, rain-water collector and spring gravity flow system for bio-fuel & sanitation; and
- 3] Create WASH focused enterprises such as hog-raising, vegetable gardening.

This leads to enhance agrarian reform beneficiary (ARBs) household's access to sanitation by improving the water supply and sanitation situation and livelihood enterprise creation in the agrarian reform areas using low-cost, culturally acceptable and appropriate WASH technologies that can be managed and sustained by the community.

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Partnership Responsibilities

- **Philippine Center for Water and Sanitation (PCWS):**
Extends technical and training support and expertise on technologies the construction and maintenance of biogas digester septic tanks, wastewater treatment, rainwater harvesting, spring gravity flow systems, water treatment facilities such as iron removal filters and bio-sand filters using low cost technologies;
- **Bureau of Agrarian Reform Beneficiary Development (BARBD) and Department of Agrarian Reform (DAR) field offices:**
 1. Identifies partner communities and deploys DAR program point persons
 2. Provides technical guidance to reinforce local capacity building and maximize resource utilization
 3. Initiate process enhancement for replication and expansion of project implementation; e.g organize para-engineers network.
 4. Provide project funds and other logistical support.
- **Local government units (LGUs):**
 1. Provide funds (a minimum of P50,000) for the purchase of materials to build WATSAN facilities and support to WASH-based rural livelihood activities
 2. Promotes and adopts the technology/program as part of the LGUs' intervention to enhance health and sanitation condition of the community
 3. Deploy municipal engineers or designates technical staff in the project
 4. Recognize and tap the trained community workers for project expansion
- **Agrarian Reform Communities (ARCs) and Community Based Organizations (CBOs):**
 1. Serves as local advocates to promote/spearhead WASH-technologies and program
 2. Participate in the project activities such as project launching, PSWRIA, training of manpower who can be engaged in the project
 3. Construct and maintain demonstration facilities to promote WASH for community development
 4. Learning how to build and sustain the water and sanitation systems

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Activities:

- Participatory water resources inventory (PWRI) – To gather data as basis for planning, WASH technology selection and design, and longer-term recommendations.
- Identification of low-cost water supply and sanitation technology options as demonstration projects for the community.
- Development and consultation on the engineering designs: 1 for water supply and 1 for sanitation.
- Hands-on construction training of the selected technologies: One demonstration project each of a low-cost water supply and a sanitation facility.
- Other capacity building activities: integrated water resources management (IWRM); hygiene promotion; operation, repair and maintenance of WASH facilities; potable water supply and sanitation enterprise development; Capacitating local champions (trained workers and CBOs).

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Project Sites

2007-2008: 4 ARC Sites:

1. Baggao, Cagayan
2. Malasat, Plat, Cagayan
3. Tanyag, Occidental Mindoro
4. Genaro, Magsaysay, Occ. Mindoro

2009-2010: 10 ARC Sites

1. Benguet*
2. Ifugao
3. Ilocos Norte
4. Ilocos Sur
5. Isabela*
6. Palawan
7. Masbate
8. Leyte
9. Surigao del Norte
10. Agusan del Sur

2010-2011: 15 ARC Sites

1. Camagong, Cebuano, Camarines Sur
2. Catabinglan, Gen. Nakar, Quezon*
3. San Ramon, Daraga, Albay*
4. Agustin Navarra, Ivisan, Capiz**
5. Villa Milagrosa, C P Garcia, Bohol*
6. Bangon, Balangayan, Eastern Samar
7. Callawa, Davao City*
8. Dawan, Mati, Davao del Sur
9. Tinagacan, Gen. Santos City*
10. Kahaponan, Valencia, Bukidnon
11. Kimaya, Villanueva, Misamis Oriental
12. Tambanan, Naga, Zamboanga Sibugay
13. Palogsi-Limansangan, Bauang, La Union
14. Salaza, Palaig, Zambales*
15. Agojo, Looc, Romblon*

Another 15 sites is proposed for CY 2012
About 9 provinces have replicated the project in other barangays/municipalities

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Innovations

- Bundled-development intervention.
- CPWASH - new approach in delivering water, energy, health and sanitation in the countryside using available resources in the community.
- Directly improved the sanitation practices of people; enhanced the communities' natural endowments.
- ARBS are encouraged to build enterprises that require water and sanitation. Develop para-engineers
- Contributes to advocacy on green local economy. A platform for good local governance.

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Results

- **About 96% WASH facilities are operational.**
- **Water quality in the communities has improved.**
- **People are using and sustaining the WASH systems.**
- **Continuing construction of additional WASH systems are being reported in almost all communities even after the PCWS-supervised pilot constructions.**

- From 20 to 39 project sites covered
- From 145 to 179 community members (para-engineers) trained
- From 116 to 362 WATSAN facilities constructed/established

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Results


Covered about **1,297** households, with a total of **8,858** users in ARCs accessed potable water, bio-gas, and improved sanitation.



About 15 sites have engaged in WASH focused enterprises that will contribute to increase household income, improvement on productivity and profitable employment.

Community members share knowledge to other communities.

Implicitly implied, in the process of constructing the WATSAN facilities is shared growth.


Indeed, "for Prosperity to be sustained it must be shared."



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Replicability



Responding to the gap in meeting the targets for water supply and sanitation by 2015, most in rural areas in the Philippines,

15 new sites for CPWASH are targeted for 2012 and more ARCs until 2014.

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WAY FORWARD: Enhancing WASH Focused Livelihood in Agrarian Reform Communities (ARCs)



- Extensively promote environmental sanitation for lasting effects on the health and well-being of ARCs.
- Increase advocacy efforts for stronger support to ARCs from national government agencies, LGUs, civil society, academe, media and donors.
- Create markets for ARCs that are already capacitated with low-cost WASH technologies.

Example:
If a critical mass of demand for wastewater treatment is created, small private enterprises will emerge to respond to these new business opportunities. The Clean Water Act could enhance such effort.

- Biogas digesters built under this project are already producing methane gas from livestock manure and other wastes. The next phase of the program could consider up-scaling some facilities such as biogas digesters feeding power-plants to generate local electricity. For this, some research has to be done. DAR can try to enlist other government agencies, media, academe, relevant NGOs and donors to do this.




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Through CPWASH project, development interventions lead to creating climate resilient communities because...


CPWASH cares...

<ul style="list-style-type: none"> for ENVIRONMENT as this minimizes waste water and maximizes use of spring and rain water, and supports solid waste management 	<ul style="list-style-type: none"> for INSTITUTIONAL BUILDING for WASH concerns as this is partnered with existing organizations, WATSAN committees and LGUs in the area
<ul style="list-style-type: none"> for CASH FLOW of households as this reduces expenses on firewood/cooking gas through bio-gas digester, and medicines for water borne diseases 	<ul style="list-style-type: none"> for GENDER Issues as this responds to behavioural transformation on efficient use of water resources, hygiene, involvement on establishing and maintaining
<p>ECONOMIC activities as this capacitates farmer organizations/ households to bundle WASH in their livelihood/ social enterprise activities e.g pigpery and vegetable gardening</p>	<ul style="list-style-type: none"> for JOB GENERATION multiplying availability of labor resources with expertise on the construction of WASH facilities



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