

WATER COLLECTIVE ACTIONS

El Agua Nos Une – SuizAgua América Latina

Technified irrigation for school gardens

SDGs addressed: 6.8 Strengthen local communities in water management
4. Quality education

Objective: Implement a drip irrigation system in school gardens, with an environmental approach and a methodology that allows develop the school garden as a transversal axis to all school subjects. Install irrigation systems by drip and sprinkler in 5 II.EE. Empower the school environment committees of the methodologies used in the implementation of the school garden.

Location: Cerro las Tunas, Villa María del Triunfo, Lima, Perú
Coord. UTM 8'652,047.00 N 290,642.00 E

Last update: 2015, November

Results:

- Water saving of 95 m³ per year, a saving of approximately 40% of water for each educational institution
- Direct beneficiaries: 935 students in the districts of Villa María del Triunfo, Pachacamac and Villa El Salvador
- Gender focus: Yes

Leading actors:

Institutions: 5 Schools



Contact information :

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Description:

The 5 benefited educational institutions have school gardens and green areas as part of their pedagogical and recreational plan. These orchards and green areas did not have an efficient conduction system for irrigation, so they are commonly irrigated with water from the public network, using buckets and / or hoses, which leads to inadequate water management. UNACEM, as part of its activities in the framework of the SuizAgua Andina project, improved the efficiency by installing a drip irrigation system in 3 II.EE. and a sprinkler system in other 2 II.EE. Ten trainings were developed, two for each II.EE. The first was in environmental education to the entire educational community and the second in operation and maintenance of the system to all administrative and teaching staff. Likewise, water consumption has been monitored. The installation of the irrigation system has empowered the school environment committees in the various methodologies used to implement it. The vegetables obtained from the gardens are used for the school lunch; the same one that is prepared daily by the mothers of family to complement the feeding of the boys and girls. Currently the educational community of the 5 institutions continues to use irrigation systems technified by drip and sprinkler; maintaining and operating them efficiently.



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-  **Context:**
Beneficial educational institutions are located in peri-urban areas of the city of Lima with high water stress. The beneficiary population is located in the districts of Villa María del Triunfo, Pachacamac and Villa El Salvador with poverty rates of 20.3%, 30.6% and 24.6% respectively. Poverty index: Not extreme
-  **Investment/period :**
- USD/time: \$17,545.45/year
-  **Sustainability strategy :**
- The project has proven to be sustainable and can be replicated in other educational institutions. The recommendations for its sustainability are
- During the out-of-school period there must be a person responsible for irrigation
 - Continuous maintenance of pumping equipment, hoses and drippers
-  **References /links::**
- Agencia Suiza para el Desarrollo y la Cooperación COSUDE, ONG Agualimpia, Empresas socias (2015). Guía de buenas prácticas para el uso eficiente de agua en empresas SuizAgua Andina Perú. In: <http://bit.ly/GuiaBuenasPracticasSuizAguaPeru>