



Water Supply and Sanitation in Rural Armenia

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with WECF

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Background Information/ Water and Sanitation Services

- Old infrastructure for rural water supply (average age is about 35 years)
- No national policy on sanitation services
- Existence of the sewage system - 3% in rural areas

Source: TME draft final report. 2008



Health

- The diarrhea - a major cause of morbidity, and cause of infant and child death
- 7 % of all infant deaths are attributed to diarrheal diseases
- The childhood mortality is especially higher among children living in rural areas

Source: NSS of RA, 2005



Aims of the project

- Establishment of a sustainable, affordable and safe school and household sanitation system
- Introduction of approaches of ecological sanitation and wastewater management
- Reduction of contamination of drainage water and groundwater with pathogens and nitrates from pit latrines
- Public awareness raising with regard to the hygienic and health risks associated with poor sanitation and drinking water supply

Hayanist

- Hayanist is situated in a basin-shaped and swampy area with a high groundwater table
- 2440 inhabitants
- Women overrepresented due to migration of men
- 90% refugees



Sanitation

- Pit-latrines with a pit of less than 1 meter deep
- Grey and black water from toilets is disposed into the open drainage channels
- Usage of drainage water for irrigation
- High risk of soil and groundwater contamination



Secondary School

- 350 pupils and 26 staff
- A very bad condition of the school building
- Pit latrines location- corner of a school yard
- Close to a drainage channel

Hayanist School



Hayanist School Toilets



Строительство нового водопровода





AWHHE Actions

- Community mobilization through establishment of Women and Village Committees
- Involvement of children in raising awareness campaign through innovative artistic approaches (ecogames, exhibitions, created book)
- Raising awareness campaign (lectures, seminars, meetings etc.)



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AWHHE Actions





Training Course on Ecosan
in pilot village Hayanist, Armenia

Photo AWHHE



AWHHE Actions

- Parasitological investigation of schoolchildren's stool and treatment of infected children (10%)
- Parasitological investigation of the soil around the school pit -latrine
- Designing and construction of ecotoilet of school
 - 7 urine diverting toilets
 - 3 waterless urinals
 - 6 hand washing basins

AWHHE Actions

- *Type of reuse:* The ecosan school toilet in Hayanist constructed in 2006.
- Construction of 4 household toilets (planned 20)
- The director of the school used the urine as fertilizer for the burley field.
- There are not "liquid manure spreaders" in Armenia.

Hayanist ecosan toilet



Hayanist ecosan toilet




Household toilets





Operation and Maintenance

- Education materials, leaflets and posters for the use and maintenance
- The caretaker daily inspections and cleaning of the toilets



Results

- A clean, safe and warm sanitation building
- The children's gained knowledge on the importance of hygiene and hand washing with soap
- The population awareness on the ecosan
- Women active involvement in ecological education of the schoolchildren



Lessons Learnt

- The establishment of ecological sanitation is especially reasonable in regions with no central WSS
- The good cooperation between the school staff and AWHHE
- The importance of ecological education of schoolchildren
- Acceptance of new toilet system by villagers




Lessons Learnt

- The pilot-project can serve as an example not only for other Armenian villages, but for many EECCA
- More active and financial support is needed to realize ecosan toilets for schools and households



Lessons Learnt

- The necessity of legislation on sanitation in particular sound sanitation
- Follow-up projects with more eco san toilets in schools and for households and other schools



Thank you for your attention!