



Projet pilote d'assainissement rural et de gestion des eaux pluviales dans le village Ait Idir

Announcement: Capacity development – ecosan June 24-28 Rabat, Morocco

Background

The concept of ecological sanitation (ecosan) presents a sustainable approach to sanitation which values sanitized human waste and wastewater as a resource. The ecosan approach enables a hygienically safe, economical and closed-loop system to apply wastewater and human waste to irrigate and fertilize or to condition soil for agricultural purposes or for biogas production. In doing so, ecosan provides a venue to reduce health risks related to sanitation, prevent the contamination of surface and groundwater and valorize the high content of nutrients found within waste. Technologies that fall under the ecosan approach are especially interesting in rural, peri-urban areas where sewer systems are weak or absent or where water supply is not adequate.

Access and quality of sanitation systems vary across the MENA region. A common issue facing all partner countries of the SWIM Sustain Water MED project (to different degrees) is the insufficient application of adequate sanitation systems in rural areas. In order to accompany its ecosan interventions in Morocco and in order to start a regional benchmarking system between partner countries, the project is organizing a practical training on the ecosan approach.

Training objectives:

The training course aims to equip policy-makers related to sanitation issues with the relevant background information and practical know-how in order to assess feasibility and implementation possibilities for ecosan systems in their countries.

The course therefore provides a theoretical and practical overview of:

- Introduce and increase knowledge of policy-maker participants in training on construction techniques of installations of ecological sanitation.
- Introduce and increase knowledge of policy-makers participants in training on rainwater harvesting, stormwater management and ecological management of rivers
- Promote agricultural and energy reuse of waste water and excreta



Course structure / content / methodology:

The course will cover a period of 5 full working days from the period of June 24-28 in Rabat, Morocco. The training methodology will include lecture-style teachings, practical exercises, group discussions and a case study visit. Upon successful completion of the course, participants will receive a proof of participation. All material used during the training (notably presentations) will be made available to participants.

The training language will be French (with simultaneous translation into English)

In order to encourage regional networking and benchmarking, participants from each country will be requested to prepare a presentation together (to be held during the training) on the current situation and future plans relating to sanitation systems in their countries, describing also their expectations of the training.

Liste des abréviations :

ABH-SMD Agence Bassin Hydraulique Souss-Massa-Drâa (Water Basin Agency for the Souss-Massa-Drâa region, Morocco)

Target group:

The course is designed for professionals in the partner countries of SWIM Sustain Water MED who deal with planning, promoting, designing, operating or managing sanitation systems for urban, peri-urban or rural areas.

Participants are typically employed by government departments (water, wastewater, environment, health, municipalities, agriculture, and energy), civil society organizations and/or research institutions/universities.

Since the number of participants is restricted to 5, it is important that trainees have a direct relevance to the ecosan topic (i.e. involved with policy-making regarding ecosan, working on an ecosan related project, developing ecosan curricula, etc.)

Selection Process/Timeline:

Candidates have already been chosen.



23 June 2013		
	Arrival of participants in Rabat Check-in into Hotel: IBIS Hotel 32-34 rue Abderrahmanne El Ghafiki Place de la Gare Rabat-Agdal 10 000 Rabat, Morocco	
24 June 2013 - ecosan		
08h30	Registration of participants	
09h00	Welcome allocutions <ul style="list-style-type: none"> ○ Mohamed Fasskaoui / Abdessadek Nrhirah – ABH SMD ○ Mhammed Makhokh, DRPE ○ NN, German embassy ○ Hassan Belguenani, EU ○ Christine Werner – GIZ AGIRE 	
09h45	Introduction round of the participants & training objectives and program flow	Moderator
10h00	Presentation of the SWIM – Sustain Water Med project	Irene Sander - giz Jordan
10h15	Pilot project of ecological sanitation in the rural area of Dayet Ifrah	Mohammed Elghali Khiyati - giz Morocco
10h30	Pilot project of ecological sanitation and rainwater harvesting in the rural area of Ait Idir	Nour el houda El Hamoumi - giz Morocco
10h45	Rural Sanitation Reuse National Program of Morocco PNAR	Christine Werner - giz Morocco
11h00	Coffee break	
11h15	Ecological sanitation: principles, technologies and project examples	Christine Werner - giz Morocco
13h00	Lunch break	
14h00	Guide on best practices for sanitation and reuse in rural areas in Morocco	Christine Werner - giz Morocco
15h00	Coffee break	
15h15	Urine Diverting Dry Toilets (UDDT): principle - construction - operation	Mohammed Elghali Khiyati - giz Morocco
25 June 2013- rainwater harvesting		
9h00	Introduction to rainwater management: principles - techniques - uses	Nour El Eouda El Hamoumi - giz Morocco
10h30	Coffee break	
10h45	Use of modeling tools for rainwater management	Christine Werner - giz Morocco
11h15	Pilot project for modeling of rainwater management in Bouskoura basin	Fabian Stoffner - consultant



12h45	Lunch break	
14h00	Catalog of best practices for rainwater management	Lantam Djeri-Wake - consultant
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8h30	Constructed Wetlands: principles - construction - operation	Bouchaib El Hamouri - consultant
10h30	Coffee break	
10h45	Biogas digesters: principles - types - construction - operation	Marc Wauthelet - consultant
12h45	Lunch break	
13h45	Safe use of ecological sanitation products in agriculture - implementation of demonstration gardens - example of Dayet Ifrah	Sara Derouich - consultant
15h15	Coffee/ break	
	Gala Dinner	
27 June 2013 – field trip		
7h30	Field trip to rural ecological sanitation pilot project of Dayet Ifrah Detailed program will be announced in due time.	
28 June 2013		
8h30	Visit of the pilot anaerobic wastewater treatment plant of the Agronomic and Veterinary Institute Hassan II in Rabat	Bouchaib El Hamouri - consultant
10h30	Coffee break	
11h	Debriefing and Evaluation	
12h30	End of the training	
13h00	Lunch	
	Departure of participants	

