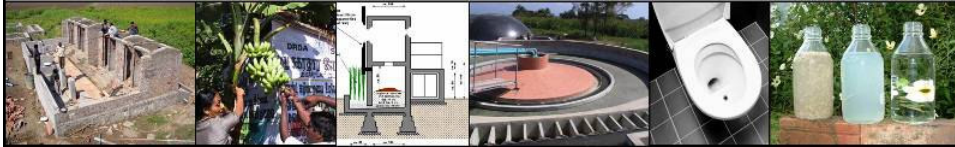


Ecosan Services Foundation



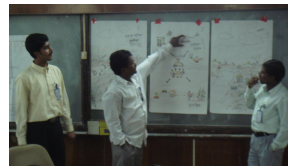
Nanchoz Zimmermann Dipl. Ing. ETH
Executive Engineer,
Ecosan Services Foundation, Pune



Ecosan Services Foundation



Established in 2006



Capacity building




Projects














Consulting

IESNI





Members of the *Innovative Ecological Sanitation Network India (IESNI)*:

			
Indian Water Works Association, India	Seecon international, Switzerland	Ecosan Services Foundation, India	Technologie-Transfer Zentrum an der Hochschule Bremerhaven, Germany
			
Maharashtra Jeevan Pradhikaran, India	German Technical Cooperation, Germany	The Network University, Netherlands	
			
Navsarjan Trust, India	Kalyani University, India	ACTS, India	International Ecological Engineering Society, Switzerland

Source: GTZ

IESNI – a virtual network





...the Innovative Ecological Sanitation Network India (IESNI)

Innovative Ecological Sanitation Network India (IESNI)

Objectives:

Supporting the development of:

- **innovative ecological sanitation systems** (closed loop systems) for India (for rural and urban applications)
- the **institutional and economical framework** for implementation of innovative ecological sanitation systems in India
- the **acceptance** of reusing recycled nutrients in agricultural applications

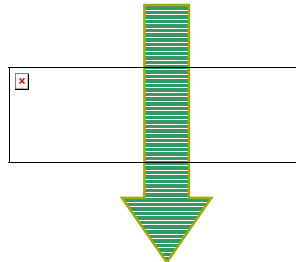
Implementing and evaluating pilot projects in India.

Providing capacity building, knowledge dissemination, experience sharing and implementation support

Role of ESF into the IESNI



IESNI



Training courses

Feasibility studies

Pilot Projects

Commercial projects

CO-Organisation of National Workshop on Sustainable Sanitation

Objective of the Ecosan Course



Many successful ecosan projects raised awareness and acceptance for innovative ecological sanitation solutions worldwide.

But: Significant lack of qualified *local* personnel to implement projects at the grassroots level.



Two-week participatory and interdisciplinary **ecosan training course**, which enables local participants to plan, implement and maintain their own ecosan projects.

Source: GTZ

Ecosan Services Foundation



ESF training courses

1. week

basics
lectures

excursions / site visits

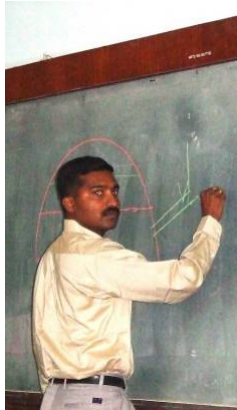
2. week

technologies
case studies

Teaching Methods



Lectures

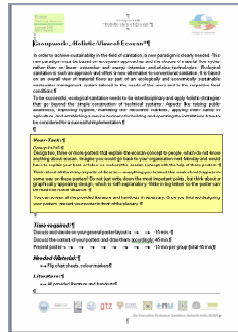
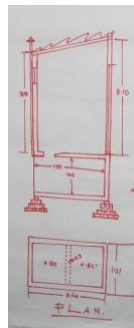


International team of ecosan experts from India, Thailand, Switzerland, Germany and Austria.

Teaching Methods



Group Works



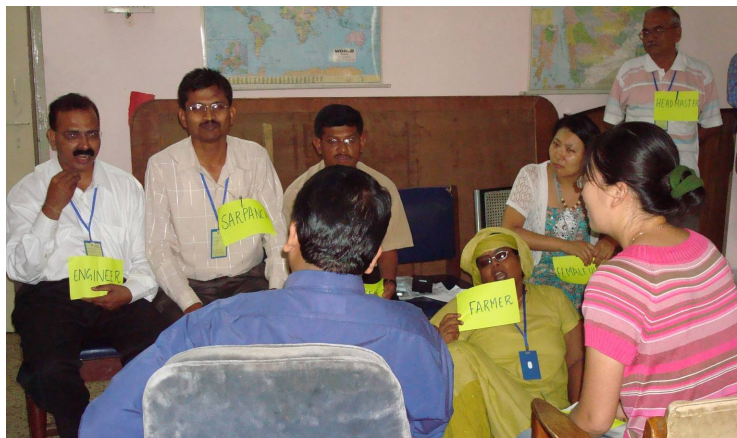
Interactive group works from assessing drawbacks of conventional sanitation systems to the designing and planning of real ecosan projects.

www.ozt.org

Teaching Methods



Role Plays



By playing different roles, participants get an insight into the requirements of different stakeholder groups to a sustainable sanitation system.

www.ozt.org

Teaching Methods



Case Studies

Concept of eco-friendly toilet centre

greywater to municipal sewer

ecofriendly public toilet

urine storage

baskets from banana leaves

local women

banana plantation

biogas for cooking

compost

sludge drying

Banana plantation fertilized with ecosan products

Ecosan Training Course Summer 2007
Capacity Building for Ecological Sanitation in India

Case Studies of Ecological Sanitation Projects from India & Abroad

Ms. Eve Menger-Krug, German Technical Cooperation (GTZ), Germany

ecosan international gmbh gtz ...the Innovative Ecological Sanitation Network INDI (IESN)

Case studies give the participants insight into working ecosan projects.

Teaching Methods



Field Trip to Ecosan Projects



By visiting ecosan projects in a two-day field trip, participants see working ecological sanitation systems in practice, which is very important for their thorough understanding of the concept.

Teaching Methods



Field Trip to Ecosan Projects



Teaching Methods



Own Ecosan Case Study Development



In the second week of the course, participants develop an outline of a real ecosan project including the project background, decision making process, a holistic reuse concept and technical alternatives.

Used Material



Promotion Flyers

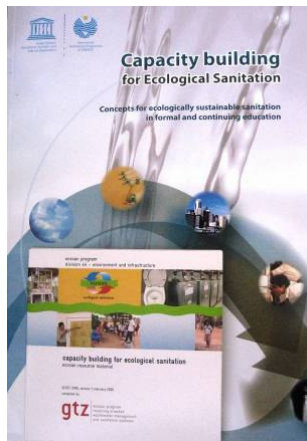
Course Folder for every participant



Ecosan Curriculum 2.0 CD

www.gtz.de

Used Material



Ecosan Models



Learning Material:
Capacity Building for
Ecological Sanitation

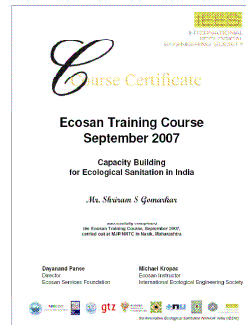
www.gtz.de

Ecosan Course Certification:



On completion of the course, the participants get;

- **A course certificate** from the *International Ecological Engineering Society (IEES)*, Switzerland and the *Innovative Ecological Sanitation Network India (IESNI)*
- **Ecosan Expert Card**



Course Statistics



- So far, 5 courses have been held, 3 2-weeks courses and 2 one-week courses.
→ More than 60 participants have been trained.
- 5 projects planned/implemented by former course participants
- Participants come from
 - NGOs
 - Government agencies
 - Universities
 - Private companies
- Course participants from various Indian states, Bangladesh, Philippines and China
- Course structure contributes to establishing a good network for sustainable sanitation

Feedback from Students



“The interactive approach is an unusual teaching method in India. We enjoyed it and learned a lot. Not only about ecosan, but also how to express thoughts in public and how to interact as a group.”
Kavitha Babu, COSTFORD, Kerala



“We learned a holistic approach to sanitation and project management.”
Ashish Deshpande, MJP Maharashtra

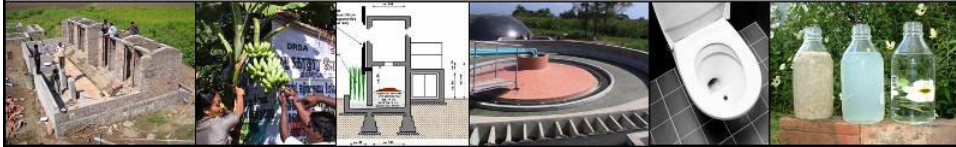
“The knowledge we gained will help us to implement sustainable sanitation projects. Now I have a broader approach, not only on technologies, but also on other aspects of sanitation, environmental, social, reuse, hygiene and health.”
Deepak Kulkarni, MJP Maharashtra



ESF got Water Unesco Award – Water Education



Ecosan Services Foundation



Thank you for your attention!

Nanchoz Zimmermann, ESF Pune



seecon
international gmbh



gtz



+nu
The IESN Network University



IESN
INTERNATIONAL
ECOLOGICAL
SANITATION SOCIETY

...the Innovative Ecological Sanitation Network India (IESNI)