

The program 'Wastewater and Solid Waste Management in Provincial Centers' contributes to improved environmental conditions in, at present, six provincial cities through the development of comprehensive wastewater and drainage management, comprising the enhancement of existing wastewater and storm water collection systems and the construction of pumping stations and new wastewater treatment facilities.

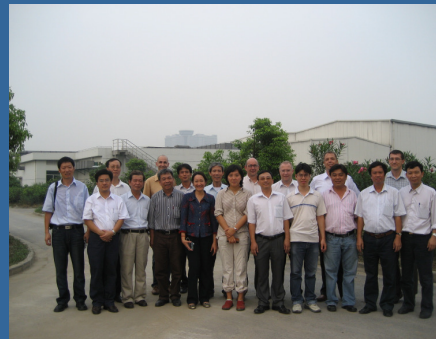
The lead agency for the technical cooperation (TC) component is the Ministry of Construction (MoC). The Vietnamese partner cities/provinces include: Bac Ninh, Hai Duong, Vinh/Nghe An, Can Tho, Tra Vinh and Soc Trang. The German partner institutions include KfW (German Development Bank) for Financial Cooperation (FC) and GTZ (German Technical Cooperation) as well as DED (German Development Service) for Technical Cooperation (TC).

Wastewater collection and treatment facilities are new to Vietnam. Adequate technical procedures and equipments that are required for proper operation and maintenance (O&M) are not known to most of the present wastewater operators. Many of the wastewater operator's O&M staff have never before seen a wastewater treatment plant (WWTP) and have only limited knowledge on equipments necessary for proper O&M works of sewerage systems. Therefore it is an essential part of the ongoing capacity building process to familiarize waste water operators' staff in charge with O&M work-procedures and the type and proper usage of specialized O&M equipment.

A study tour to Shanghai China was organized by the WWM project from Sept 21 to Sept 25. The participants included directors, vice-directors and staff in charge of O&M of sewer systems in the six participating Wastewater Companies as well as WWM project advisors in charge of O&M. The study tour included the following activities:

- visit of a decentralized Waste Water Treatment Plant (WWTP), built by the German NGO Borda. The plant is located in a technical college with about 6,500 students, about 100 km outside Shanghai City;
- visit of a combined treatment site, consisting of (i) a centralized WWTP (BOT scheme) with a capacity of 50,000 m³/day and (ii) a composting plant with a capacity of 600 tons/day;
- visit to IFAT-China 2008 – the 3rd International Trade Fair for Water, Sewerage, Refuse, Recycling and Natural Energy Sources;

COMPONENT: TC Component 2 – Capacity Development Wastewater Management (WWM)
PERSPECTIVE: Sub-Component: Wastewater Operation and Maintenance
ACTIVITY: Study Tour
LOCATION: Shanghai, CHINA
DATE: September 21-25, 2008



Participants of the study tour to Shanghai



Wastewater Treatment Plant in Shanghai



Centralized WWTP visited during the tour



Manhole covers exhibited on IFAT China

- participation in a KfW presentation on a Strategy for Waste Water Treatment in Provincial Towns in Vietnam.

As a result of the study tour, participants got a wider view on technological options for wastewater collection and treatment; including technologies for centralized as well as decentralized options; comprising mechanical and biological treatment. Moreover, participants learnt about the pros and cons of combined wastewater treatment

and solid waste disposal in one, operated under the responsible of a private BOT (build-operate-transfer) contractor.

Through the attendance at IFAT China, participants became familiar with common O&M equipment for wastewater management and collected all available information and contacts of manufactures and suppliers from all over the World. This information will be helpful for comparing and purchasing O&M equipment in the near future.