



INTERNATIONAL WATERS RESULTS NOTES

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CN-Ship Waste Disposal Project

GEFID#: 587, GEF Agency Project ID#: P003405, Project Status: Completed



1. Construction and commissioning of wastewater facilities in six ports.
2. Treatment of Chemically Contaminated Wastewaters. To meet the requirements of treating wastewater, the Port Authorities required a system that was robust and simple to operate but could deal with a variety of chemically contaminated wastewater. A detailed study was conducted and the recommended system was adopted by the ports constructing facilities for such wastewater.
3. Oil Spill Response and Contingency Plan. A generic Tier 1 plan (port level spill) was developed and refined for each of the six project ports and the plan was adopted for all ports in China. The study included several scoping workshops and an oil spill response training exercise and the success of this exercise has led to making this an annual exercise hosted by different ports.
4. Cost Recovery and Port Fee Schedule Changes. A unified national fee schedule, representing costs of new and existing waste reception facilities, was implemented and provided for sufficient funds to cover expenses.
5. Ship Waste Tracking System (SEATRAC). A software was developed and installed to provide a database linking the six ports and Ministry of Communications (MOC). The database for (a) a means of tracking waste and ship traffic; (b) inventory of wastes processed by type and location and (c) a database of environmental data generated by the routine water and air quality monitoring programs.
6. Large Marine Ecosystem (LME) Multilateral Study. An LME study was conducted to provide a baseline of conditions for areas which include territorial waters of more than one country and associated international waters.

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PROJECT OBJECTIVE

The objective of the project is to reduce pollution of international and territorial waters caused by ships' wastes through: (a) improved monitoring and analysis of the nature and magnitude of the problem; (b) improved policy, regulatory and incentive frameworks; and (c) the provision of facilities to receive, treat and safely dispose of ship wastes. Towards this end, the project will provide technical and financial assistance to the Government of China and the six Port Authorities for the construction and/or rehabilitation and expansion of ships waste disposal facilities. While limited to six ports serving a major part of China's sea-borne international traffic, the proposed project will serve as a model for other ports in the country, as well as for ports in other countries, particularly those in the region, and provide a solid basis for environmental monitoring activities and oil spill contingency planning.

RESULTS: PROCESS

INDICATOR#1 Development of Oil Spill Contingency and Response Plans

Results: completed and contingency plan implemented in other ports aside from the six ports which participated in the project.

INDICATOR#2 Develop and implement a Ship Waste Tracking System (SEATRAC)

Results: completed and implemented.

INDICATOR#3 Develop and implement new fee schedule to provide adequate capital repayment and maintenance operating funds for the facilities to ensure project sustainability.

Results: completed and implemented

RESULTS: STRESS REDUCTION

INDICATOR#1 Reduction of pollution of international waters [The SAR provided an estimate of approximately 1.1 million tons of waste that would be treated per year rather than being discharged to international and Chinese coastal waters.]

Results: Actual shipping traffic was much higher so an estimated 6.3 million tons of waste will be diverted annually by 1998. Assuming a "working life" of 20 years for the treatment systems and no further increase from the 1996 traffic figures, at least 126 million tons of waste will not be dumped into the oceans (46 million tons of oil contaminated wastes, 76 million tons of sanitary sewerage and 20 million tons of garbage)..

INDICATOR#2 Construction of port facilities to receive and treat/dispose of wastes from shipping.

Results: The ports component was successfully completed and fully commissioned.

RESULTS: WATER RESOURCE AND ENVIRONMENTAL STATUS

INDICATOR#1 (as in your results framework) [Please indicate the target in brackets]

Describe in one sentence the results in this area. Please quantify the results whenever possible.

INDICATOR#2 (as in your results framework) [Please indicate the target in brackets]

Describe in one sentence the results in this area. Please quantify the results whenever possible.

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