

Case Study of China PCB Management and Disposal Demonstration Project



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Content



PCBs Status in China



Project Purpose and Main Activities



Progress of Project

1. PCBs Status in China

- ❖ The production of PCBs oils began in 1965 and stopped from 1974 to the 1980's. The accumulative production output of PCBs oils was 7,000 to 10,000 tons.
- ❖ China used to import PCBs-containing electrical equipment during the 1950's and the 1980's.
- ❖ At present, PCBs-containing devices in use include PCBs-containing capacitors and transformers.
 - About 460 PCBs-containing capacitors were identified in the electrical power sector.
 - The data in the non-power sector are not available due to the large number of enterprises, weakness in management and the long time period.

1. PCBs Status in China (Continued)

PCB wastes:

- ❖ PCB equipments and associated wastes, mainly distributed in buried sites throughout the country.
- ❖ It is estimated that about 50,000 tons of high PCB contaminated wastes, and 500,000 tons of low PCB wastes.

2. Project Purpose and Main Activities

Purpose:

- ❖ To identify and demonstrate environmentally-sound and cost-effective policies, procedures and techniques for safely managing and disposing of PCBs waste in Zhejiang.
- ❖ To address issues of inventory survey, regulatory improvement, technical capacity and public awareness raising to enable China to fulfill the convention obligations on PCBs.

2. Project Purpose and Main Activities

Main Activities:

- ❖ Establishment of a complete provincial PCBs inventory
- ❖ Revision and improvement of national policies, regulations, standards for PCBs management.
- ❖ Construction of facilities for PCBs waste treatment and disposal.
- ❖ Cleanup of about 40 PCBs sites.
 - Contaminated soil with PCBs>1ppm:treated locally by the thermal desorption.
 - All PCBs capacitors will be transported to Shenyang for incineration disposal.
- ❖ Carry out public awareness raising activities.

3. Progress of Project

-----Activity one: Institutional Strengthening

- ❖ At the central level, a central project management team was established.
- ❖ At the provincial level, Zhejiang has set up project management office (PMO).
- ❖ Serials of training for various project partners.

3. Progress of Project

-----Activity two: Policy Framework

- ❖ A draft national regulation on PCBs has been formulated and is now at the consultation stage.
- ❖ Standard for site cleanup and PCBs waste incineration has been compiled, the proposed standards for different use of lands are:
- ❖ Zhejiang provinces has promulgated provincial regulation on PCBs management in Jan., 2009.

3. Progress of Project

-----Activity three: PCBs disposal in Zhejiang

- ❖ Carried out relevant preparations for PCBs cleanup in Zhejiang, including located, monitoring and planning for PCBs wastes storage.
- ❖ Completed the location and EIA for PCBs wastes storage and thermal treatment in Zhejiang.
- ❖ The thermal desorption facility construction has been contracted and design has been completed. The facility will be ready to handle PCBs soil from the end of 2009.

3. Progress of Project

-----Activity three: PCBs wastes disposal in Zhejiang

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- ❖ Completed the location and EIA for PCBs wastes storage and thermal treatment in Zhejiang.
- ❖ The thermal desorption facility construction has been contracted and design has been completed. The facility will be ready to handle PCBs soil from the end of 2009.
- ❖ The preparation for the first site cleanup has been completed and will be cleaned by this year.

3. Progress of Project

-----Activity four: PCBs disposal in Shenyang

- ❖ Shenyang has completed the construction of wastes storage facility and upgraded its incinerator up to international standard.
- ❖ Trial burn testing has been completed in October, with Dioxin emission meets international standard.

3. Progress of Project

-----Activity five: Replication program

❖ Further national investigation has been finished and the inventory is updated.

❖ A national replication program on PCBs management and disposal is now under development to replicate the experience in Zhejiang to all the other provinces in China.

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Thank you.