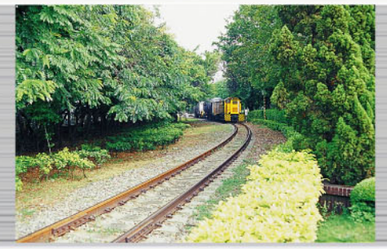
Environmental Management System (EMS)

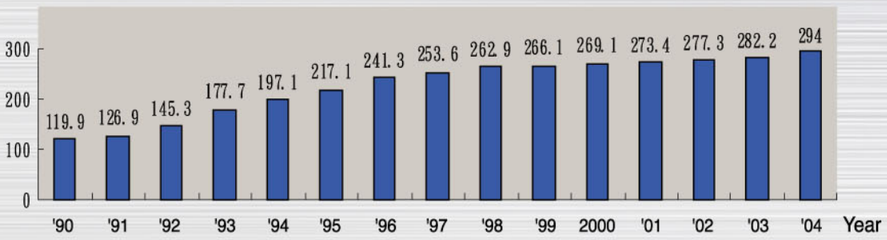


Background

In 1996 CSC established an Environmental Management System (EMS) by integrating existing environmental activities and functions. The EMS has gone through rigorous planning, execution, examination, two internal audits and management reviews. It was granted ISO 14001 registration after verification by the Bureau of Standards, Ministry of Economic Affairs of Taiwan in December 1997.

Environmental Investment

Since its establishment until end of 2004, CSC has invested a total of NT$29.4 billion in various environmental equipment and facilities to improve air and water quality in factory sites and manage reduction, recycling and disposal of by-products. Among these, 72.4% was allocated toward air pollution control, 12.4% toward water pollution control, 12.4% toward waste treatment and disposal, and 2.8% toward noise control and others.



CSC's Cumulative Environmental Investments since 1990 (NT$ billion)

Planning

A. Environmental Aspect

Environmental aspect assessments are carried out in terms of timing: past, present and future; status: normal, abnormal, accidental; air or odor; water body; waste; toxic substance; noise; soil; energy; resources; and others. Environmental aspect assessments have been fully computerized with yearly updates.

B. Legal and other requirements

Identification of laws and regulations is an important part of the EMS to ensure that environmental regulations are being observed. CSC sets up standard procedures as follows:

1. DISHEP gathers environmental regulation updates from government bulletins and websites, identifies those relevant to EMS and provides countermeasures and suggestions.
2. According to information provided by DISHEP, departmental subcommittees modify operation procedures and follow new rules.
3. DISHEP follows progress, confirms compliance with new regulations and reports to the Environmental Management Committee (EMC) periodically.

C. Objectives and Targets / Action Plans

After preview and assessment of its environmental aspect, CSC identifies 14 environmental management targets to improve its environmental performance. Environmental Management Committees in each department will determine the aims, prepare action plans, implement and follow up results. Performance until December 2004 is shown as follows:

Item	Objectives	Nos. of action plans	Nos. concluded	Nos. in progress
1	Reduction of fugitive dust emissions	96	79	17
2	Reduction of NOx emissions	30	21	9
3	Reduction of SOx emissions	15	11	4
4	Reduction of dust emissions from stacks	18	16	2
5	Reduction of odor emission	17	16	1
6	Reduction of ozone-layer depleting substances	3	3	0
7	Reduction and management of toxic chemical substances	16	15	1
8	Improvement of waste water collection system	69	64	5
9	Conservation of energy and resources	206	194	12
10	Reduction, reuse and recycling of wastes	32	30	2
11	Improvement of storage, transportation and disposal of wastes	13	12	1
12	Greening of factory site	37	30	7
13	Continuation of soil pollution improvement	11	9	2
14	Prevention of steel-related radioactive pollution	8	6	2
	Total	**571**	**506**	**65**