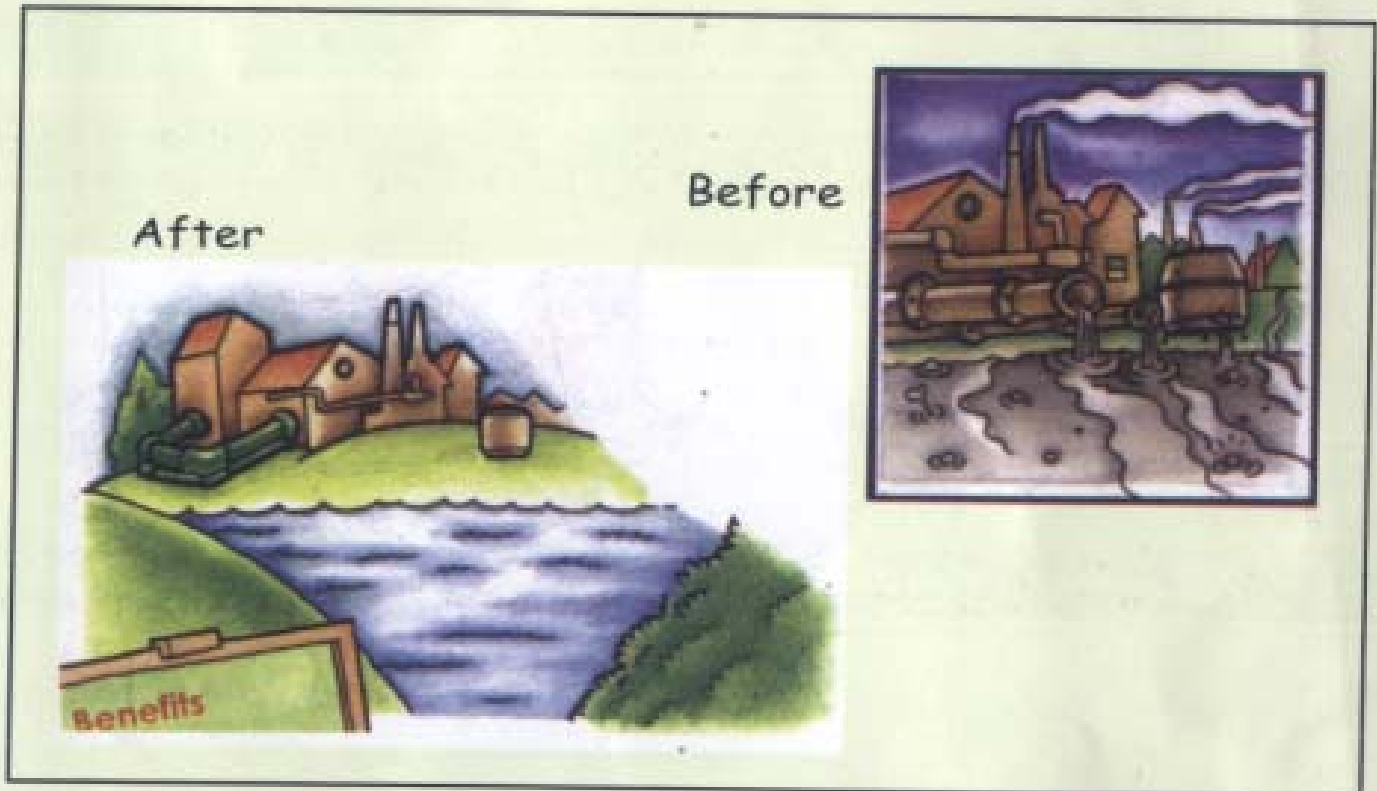




Ministry of Environment
Republic of Indonesia



“Industrial Sustainable Development through Cleaner Production”

The Strategy and its Implementation to Create Challenges in Indonesia

Assistant Deputy for Standardization and Technology
Deputy Minister for Technical Infrastructure for
Environmental Management

May - 2002

Background

Cleaner Production (CP) is an innovative environmental management approach aiming at increasing the efficiency of production activities, and it could contribute to sustainable development. UNEP (United Nation Environment Programme) introduced the CP concept in 1989. In Indonesia, The Ministry of Environment has introduced CP to industries and stakeholders in 1993, enhance with declaration of the National Commitment of CP in 1995 and CP National Work Plan in 1996.

Objective

To encourage all sectors to conduct CP program in achieving efficient use of materials, energy, reduced toxic dispersion, enhanced material recyclability, increased sustainable use of renewable resources, and extended product durability.

Past and Current Programs

Since its introduction in 1993, the Ministry of Environment have done a lot of efforts in developing and disseminating the CP concept, including:

Training and Awareness

- Conducted seminars in various cities.
- Coordinated training programs and workshops for practitioners from government institutions and industries.
- Conducted the National Roundtable on CP Implementation in Jakarta, 1997.

Demonstration and Projects

- Assisted in CP Pilot Projects for pulp and paper industry in 3 companies, extended with conducting a national seminar.
- In cooperation with AusAID, implemented CP Pilot Projects for sugar industry in East Java Province.

- In cooperation with The Norwegian Agency for Development Co-operation (NORAD), conducted CP Demonstration Projects in 9 industries in Riau Province for rubber, palm oil and plywood industries.
- In cooperation with USAEP, conducted Pilot Project on National CP Award for industry.
- Conducted Pilot Project on CP audit in textile industry.

Technical Assistance

- Conducting technical assistance with international experts provided by the German Agency for Technical Assistance (GTZ) in CP implementation on textile and tanning industries. Presently, there are more than 30 textile companies and 15 tanning companies participating in the program.
- Initiated and facilitated the establishment of Environmental Counselling Group (ECG) for tanning industry in Yogyakarta and textile industry in Jakarta, Bandung, and Semarang. These institutions serve as media to disseminate CP implementation.

Development of Guidelines

- In cooperation with the Center of Industrial Research and Development - Ministry of Industry and Trade, developed the Guidelines on Environmental Impact Management Technology for Industry, with specific fields:

1. Palm Oil	4. Rubber	7. Electroplating
2. Tapioca	5. Tanning	8. Pulp and Paper
3. Textile	6. Hotel	
- In cooperation with AusAID, developed guidelines on 'CP best practice' for sugar, textile, tapioca, beer, and distillation industries.
- In cooperation with GTZ, developed and disseminated CP Implementation guidelines, i.e:
 1. Serial Gap Analysis on buyer requirement for textile industry (T1 - T5)
 2. Cost Benefit Analysis: leather industry
 3. Good Housekeeping Guide

4. Environment-oriented Cost Management
5. Chemical Management (draft)

Future Plan

Several activities have been planned for the next three-year program. It will be implemented by MoE and/or in cooperation with donors. The activities include:

- Indonesia will serve as the host for the 4th Asia Pacific Roundtable for Cleaner Production Conference in Yogyakarta on October 2002.
- Promoting CP in 7 (seven) strategic sectors, these are: Mining and Energy, Trade and Industry, Agriculture and Plantation, Tourism, Forestry, Transportation, and Health.
- Strengthening capacity building in linking environmental excellence to business excellence.
- Developing "CP Clearing House", including "CP on-line dialogue facilities".
- In cooperation with NORAD, conducting CP Pilot Project in Bukit Tiga Puluh National Park, Riau Province.
- Providing CP guidelines for several sectors.
- Fostering cooperation and assistance for other CP program, such as CP in Municipalities and CP in the Service Sectors.

For further information, please contact:

Assistant Deputy for Standardization and Technology
Deputy Minister for Technical Infrastructure for
Environmental Management
Ministry of Environment (MoE)

6th floor, A Build.
Jl. D.I. Panjaitan Kav. 24, Kebon Nanas
Jakarta 13410, Indonesia
Tel/fax: 62-21 85906167
E-mail: sabar@menlh.go.id