

Clean Production

Clean production is the continuous application of an integrated preventive environmental strategy applied to processes, products and services to increase overall efficiency and reduce risks to humans and the environment.

- Production processes:
 - a) conserving raw materials and energy
 - b) eliminating toxic raw materials
 - c) reducing the quantity and toxicity of all emissions and wastes.

- Products:
 - a) reducing negative impacts along the life cycle of a product from raw materials to its ultimate disposal.

- Services:
 - a) incorporating environmental concerns into designing and delivering services.

Cleaner production requires:

- changing attitudes
- environmental management
- evaluating technology options
- pollution prevention

Much of the current thinking on environmental protection focuses on what to do with wastes and emissions after they have been created. This is commonly called 'end-of-pipe' treatment.

The goal of cleaner production is to avoid generating pollution in the first place. This strategy frequently cuts costs, reduces risks and identifies new opportunities. Cleaner production can be the most efficient way to operate processes, produce products and to provide services. Costs of wastes, emissions and environmental and health impacts can be reduced and benefits from these reductions and new markets can be realized.