

Resource Efficient and Cleaner Production

Focus of cleaner production

In accordance with the United Nations Environment Programme (UNEP), Cleaner Production is understood to mean: The continual application of an integrated environmental prevention strategy in processes, products and services, with the aim of reducing risks for humans and the environment, to increase the company's competitiveness and guarantee its economic viability.

Cleaner production focus on conservation of natural resources such as water, energy and raw materials and avoids the end-of-pipe treatment.

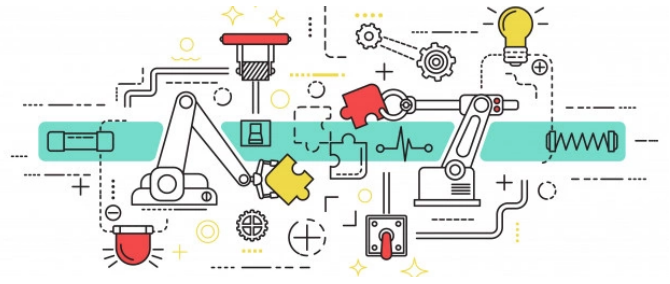
This is a preventative approach to managing the environmental impacts of business processes and products. Cleaner production uses changes in technology, processes, resources or practices to reduce waste, environmental and health risks; minimize environmental damage; use energy and resources more efficiently; increase business profitability and competitiveness; and increase the efficiency of production processes. Cleaner production is applicable to all businesses, regardless of size or type.



The economic advantages of CP are:

- cost effectiveness
- increased process efficiency
- improved product quality
- cost of final treatment and disposal is minimised

Key features of Cleaner Production Technology:



Continuous: It is a continuous environmental management approach.

Preventive: CP seeks to prevent pollution from being generated, rather than cleaning it up after it is generated. The simple reason is that this saves costs.

Integrated: To be effective, CP should be integrated into the daily operations of a company. In the same manner as companies do not do economic management only one time, but are doing this as an on-going integrated part of operations.

Processes, products and services: Opportunities to improve the environmental (and social and economic) performance of a company can be identified through CP, not only by adjusting HOW things are done (processes) but also WHAT is done (products) and WHAT SYSTEMS (services) are applied.

Resource Efficient and Cleaner Production (RECP)

RECP is the continuous application of an integrated preventive environmental strategy to processes, products and service to increase efficiency and reduce risks to humans and environment.

- It specifically works to advance:
- Production efficiency through improved productive use of natural resources by enterprises
 - Environmental conservation through minimization of the impact on nature by enterprises
 - Human development through reduction of risks to people and communities from enterprises and supporting their development

References:

<https://textileinsight.blogspot.com/2014/08/cleaner-production-technology-and-its.html>
<http://www.cprac.org/en/sustainable/production/cleaner>
https://en.wikipedia.org/wiki/Cleaner_production