Answer on Question #46149, Chemistry, Other

Task:

REPORT: Critical Analysis of the Environmental Impact of Chemical Processes

Identify a 'human-made' chemical process (or series of processes) that has undergone changes in recent times to reduce its environmental impact. Critically examine and comment on the appropriateness of the changes. Suggest other alternatives and why they may not have been adopted.

Can you give some ideas how to start the report. or share some link regarding this question?

Answer:

Industrial production involves a lot of rare materials and causes the significant environmental impact.

Energetic is one of the main sources of environmental pollution in modern economy. The energy receiving is produced by the realization of the chemical reaction:

$C+O_2=CO_2+Q$

C is the main resource for this reaction. The most negative environmental effect is being made because of O_2 lack in this reaction. This affects both the effectiveness of energy receiving and CO formation (which is far more dangerous pollutant than CO_2). The O_2 injection is used in industrial processes to escape the stage of CO formation.

Alternatively, new technologies were developed to avoid the CO_2 accumulation in the atmosphere. These are for example wind power stations and solar stations introduction. These stations avoid the described chemical process to receive environmentally safe energy.