



Exercise 4 – Industrial environmental protection

Select one production system in the following table of Best Available Technique Reference Documents (BREFs) and apply various cleaner production measures (CPMs) to real (old, not best available technique) production systems. Regard the different effects of the applied CPM concerning investment costs, environmental effects, social effects,...

The solution will be presented as 30 min presentation.

EN: EU best available techniques (BAT): <http://eippcb.jrc.es/reference/>

FR: Meilleures Techniques Disponibles (MTD) <http://www.ineris.fr/ippc/node/10>

DE: Beste verfügbare Technik (BVT): www.bvt.umweltbundesamt.de/sevilla/kurzue.htm

Suggestion for working / planning (not obligatory):

You have to work in the Groups like:

Management Group:

- Whole conception of the production system (energy and mass flows)
- Presentation of the environmental issues for the entire production system
- Classify the expenditure required to apply CPMs (organizational measure, low or high investment) and decide which CPMs should be applied
- Explain your decision to the stakeholders

Each other group:

- Presentation of the sub-process (production of parts, disposal of waste, transportation, distribution,...)
- Presentation of environmental problems:
 - E.g.: emissions/impact/in/on air, water and soil, diseases, resource consumption,...
- Measures of best available techniques (BAT):
 - E.g.: increase of resource efficiency, decrease of water consumption, inhibition of emissions, recycling strategies,....