Integrated Waste Management

There is no single waste management method that can deal with all materials in waste streams in an environmentally sustainable way. In reality, any waste management process is based on a number of closely related processes integrated together. Instead of focusing on and comparing individual options, for instance, incineration versus landfill, an attempt should be made to integrate waste management systems that can deal with particular waste stream, and afterwards to compare their overall performances in environmental and economic terms.

Integrated waste management approach focuses on the overall environmental burdens and economic costs. Only waste management systems based on analysis of all material and energy flows, dematerialization and detoxication of economic activities are sustainable in a long-term perspective.

APINI activities

- Research on waste prevention and minimization;
- Implementation and research in the area of extended producer responsibility;
- Consulting on management of secondary raw materials and specific waste streams (packaging waste, ELVs and tires, batteries and accumulators, biodegradable waste, construction and demolition waste, hazardous waste) from legal requirement to assessment of opportunities for the implementation of recycling or recovery technologies;
- Wide-range technical support for waste management enterprises;
- Development, implementation and supervision of waste management projects;
- M.Sc. course "Integrated Waste Management".

Projects:


Research studies for governemental institutions

- Feasibility study on treatment of used batteries and accumulators in Lithuania in 2003.
- Development of regulation on control of hazardous substances in packaging in 2002.

Research studies for industries:

- Analysis of possible recycling methods and recycling capacity in Europe for LCDs and plasma displays in 2006.
- Application dossier (according to the requirement for PHARE 200 ESS programme) for the implementation of project on production of briquettes from sawdust in JSC „Marmedis“ in 2002.

Achievements:

Publications:


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