

Expert System For Environmentally Acceptable Integrated Solid Waste Management.

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Expert system for integrated solid waste management combine several techniques to manage distinct elements of the waste stream most effectively. Strategic planning through expert system will allow decision-makers to meet short-term needs while building a framework for working towards long-term goals. The idea behind this expert system is that a combination of approaches, techniques can be used to handle targeted portion of the waste stream made up of distinct component that can be managed and disposed of separately. This system is design to address a specific set of local solid waste management problems and its operation is based on local resources, economics and environmental impacts.

Precisely expert system is capable of; identification and evaluation of waste stream assessment on the basis of characteristic like corrosivity, reactivity, ignitability, toxicity etc; recommend source reduction techniques; provide consistent and efficient planning for recycling; recommend composting and combustion options and site selection for land disposal. This system can be utilized to identify the environmental problems, managing local information database, evaluating the appropriate method for solid waste management, alternatives for waste minimization, guidelines for remedial actions, interpretation and modeling of hazardous waste, reviewing and updating of management plans.