

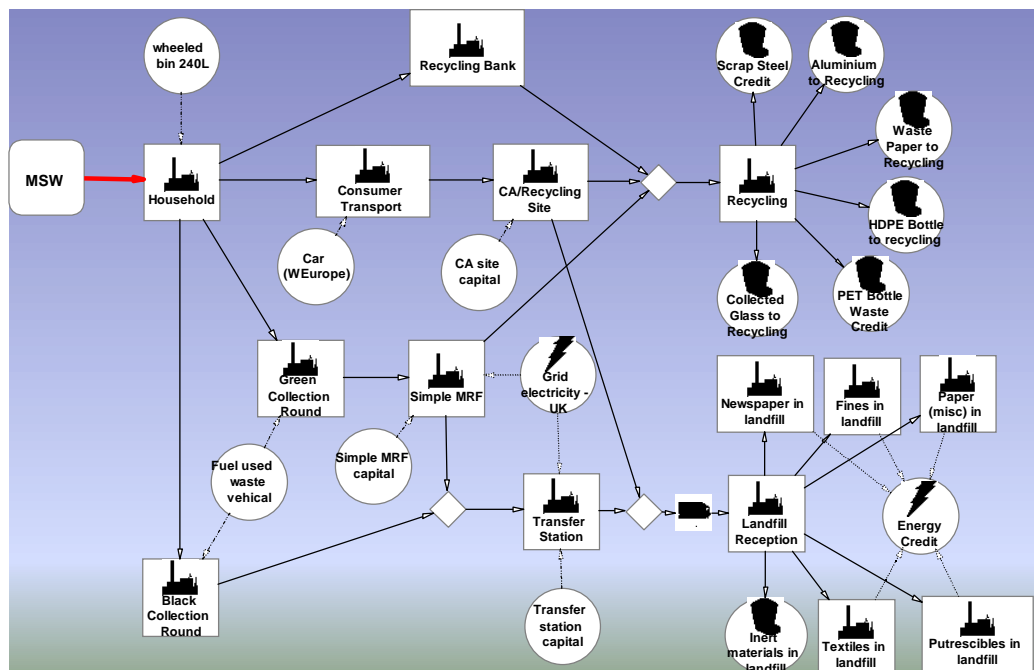
Project Profile

Sector: Waste Policy

Project: Life Cycle Analysis in Waste Management:
Review and Specification of WISARD

Client: Environment Agency and AEA Technology

Period: 1999



An example of the application of LCA to waste management. Pira International.

From 1995 to 1997, whilst at WS Atkins, Dr Bob Gregory was project manager for the Environment Agency's contract to develop a Life Cycle Inventory for landfill processes and operations. This project provided the inventory for the Environment Agency's Waste Management Life Cycle tool WISARD. This landfill inventory comprised five key components:

- Landfill construction
- Landfill operation
- Waste composition
- Leachate management
- Landfill gas management

The inventory was the first application of LCA techniques to waste management in the UK, and has been peer reviewed by national and international panel of LCA experts. In 1999, Dr Gregory provided support to the peer review panel, and proposed further developments of the landfill inventory, to extend the range of landfilling options available to the WISARD user to include

landfill sites of different capacity and design (see Project Profile on WISARD database development).