Technology Fact Sheet for Mitigation

Technology	Description	Benefits	Challenges
Biomass Landfill [i]	Under the anaerobic (oxygen free) conditions of landfill sites, organic waste is broken down by micro-organisms, leading to the formation of landfill gas (LFG). LFG is a gaseous mixture which consists mostly of methane and carbon dioxide, but also of a small amount of hydrogen and occasionally trace levels of hydrogen sulphide. . The methane thus recovered can either be flared, or used for electricity generation. Investment cost is estimated at US$ 700-7000/kW (typically US$1400/kW) and the generation cost is around US$ Cents 14/kWh	Improved environment around the open dumping sites.	Awareness and information programme required. There is currently high uncertainty on the investment costs. No resource potential assessment has been carried out

[i] **This fact sheet has been extracted from TNA Report – Technology Needs Assessment and Technology Action Plans For Climate Change Mitigation– Zambia. You can access the complete report from the TNA project website http://tech-action.org/**