



## **Solid waste management**

Solid waste management is one of the most critical issues facing modern society. National and local governments are faced with dealing with the ever-increasing challenges of waste management and treatment.

Recent years have seen important technological developments in this sector, including more sophisticated waste to energy methods and techniques for trapping and utilising methane and other climate change gases. Scandinavian countries have become so efficient in solid waste management they are now importing solid waste from other countries to take up spare capacity in their treatment, recycling and waste-to-energy plant.

CIID provides comprehensive, expert and up-to-date support to create the most effective solutions for solid waste management. We deal with the key factors contributing to the problems and opportunities in this sector, including:

- The fast pace of urbanisation
- The built-in redundancy of consumer goods in a consumer society
- Faster cycles of new-generation products in technology, domestic products and industry
- Increased percentage of high-value substances and materials with potential for recycling, many of which are toxic
- Increased usage of land for landfill when land is becoming more scarce
- Seepage of toxic liquids into water table and water supply
- Emission of noxious and unpleasant gases, including climate change gases
- Increased capacity to extract energy from waste

### **Methodology**

CIID's methodology for solid waste management follows the topics summarised in the accompanying document "Infrastructure development support programmes". CIID will commence with an interactive discussion with the ministries, departments and agencies responsible for solid waste management, following which we will develop a comprehensive programme to introduce international standards of best practice in this sector, including capacity building and knowledge transfer in the following topics:

- Solid waste segregation
- Recycling
- Waste to energy
- Extracting valuable materials and components from waste
- Improving packaging standards
- Public education in recycling and minimising waste
- Optimising use of safe, secure and environmentally sensitive landfill
- Engineering management training and adopting international best practice

### **Integrated implementation programme**

CIID will create a comprehensive implementation programme, in consultation with the senior management of the relevant ministries, departments and agencies. The aim of this programme will be to introduce and maintain international standards of best practice and create a sustainable programme for waste management and treatment, including the development of physical resources, improved capability of management and workforce, and development of a rigorous regulatory environment.