

# ESTIMATION OF SOLID WASTES IN THE WIDER CARIBBEAN REGION

## 1. Classification

### 1.1 Types of waste assimilable to Municipal Solid Wastes.

- Municipal Solid Wastes (MSW)
- Construction and demolition wastes
- Inert wastes
- Common hospital wastes

### 1.2 Types of waste no assimilable to Municipal Solid Wastes.

- Industrial Wastes
- Hazardous wastes
- Bio-sanitary and special hospital wastes.
- Agricultural wastes

## 2. Simple methods for the analysis of Municipal Solid Wastes in the Wider Caribbean Region

2.1 Municipal Solid Wastes analysis as key factor for planning, selection, and design of equipment and technologies

2.2 Sampling

2.3 Sampling size

2.4 Density

2.5 Waste Generation

2.6 Physical Composition

2.7 Moisture

2.8 Calorific (heat) values of Municipal Solid Wastes

## 3. Management of Municipal Solid Wastes in the Wider Caribbean Region

### 3.1 Primary collection

- Communal containers
- Special containers

### 3.2 Collection and Transport

- Separate collection
- House to house collection
- Direct transport to treatment systems
- Transfer stations

### 3.3 Treatment system and final disposal.

- Landfills
- Compost
- Recycling
- Transformation and reuse

## 4. Cases of Study

### 4.1 Municipal Solid Wastes in Havana.

- Separate collection and a recycling plant as technical solution.

### 4.2 Municipal Solid Wastes in Cienfuegos.

- Proposal of a regional sanitary landfill with gas recovery.