

# Solid Waste Management

Composting

# Composting: Aerobic Digestion

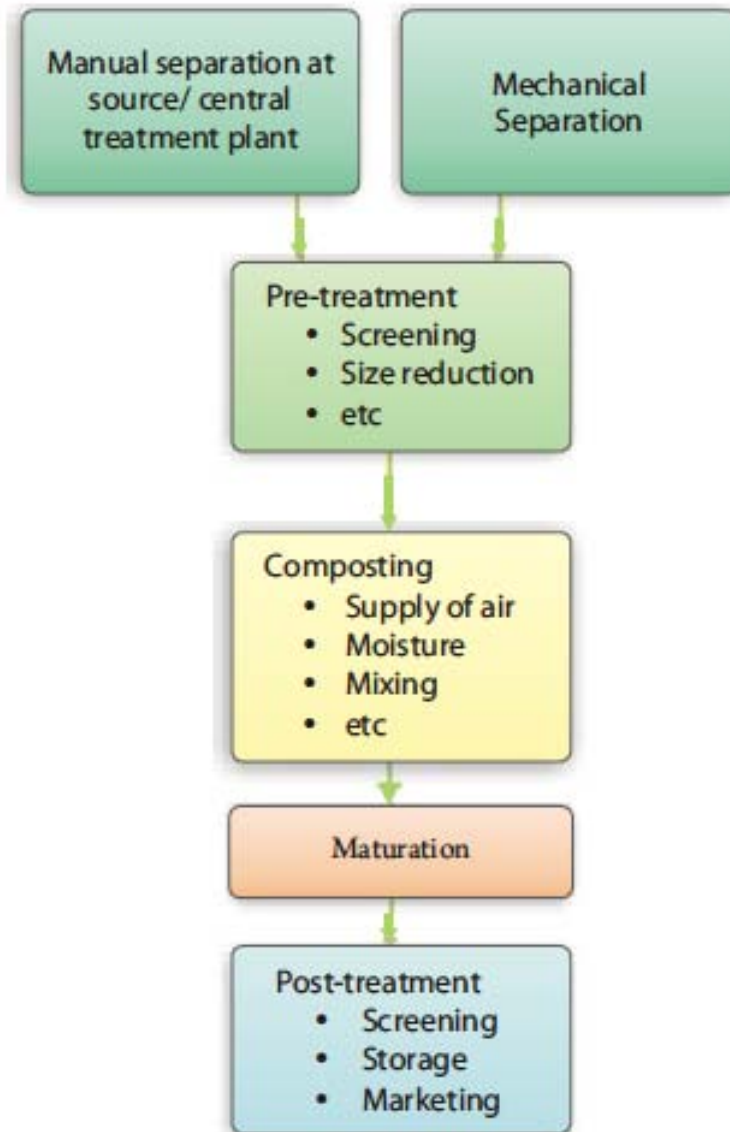
- Accomplishes all three Rs –  
Reduce, Reuse and Recycle

Advantages of composting

# Composting: Aerobic Digestion

- Problems associated –
  - Odour Nuisance
  - Contaminated run off
  - Air Pollution
  - Growth of pathogens

# Typical Unit Operations and Steps in Composting Process



# Environmental Factors affecting Anaerobic Digestion

- **Oxygen**
- **Moisture content**
- **Temperature**
- **pH**
- **Nutrients**
- **Size of materials**
- **Size of compost heap**
- **Inoculums**

# Biogas Technology in Bangladesh

Sl	Organisation	Period	Number of plants
1	BCSIR	1973-2005	22,100
2	LGED	1985-2001	7,000
3	DoE	1979-1983	260
4	BRAC	1987-2005	300
5	DLS	1988-1994	70
6	Thengamara Mohila Sabuj Sangha (TMSS)		
7	BSCIC	1983-1988	30
8	Bangladesh Agricultural Development Corporation	1983-1984	20
9	DANIDA	1982	4
10	BAU	1971-1973	2
11	Housing and Building Research Institute	1981	2
12	Bangladesh Academy for Rural Development	1974	1
13	Bangladesh Commission for Christian Development	1978	1
14	Bangladesh Rice Research Institute	1983	1
15	Construction Partner Organization( CPO) under IDCOL		8,992
<b>Grand total</b>		<b>1971-2008</b>	<b>38,765</b>

Source: Renewable Energy and Environmental Information Network (REEIN), [www.reein.org](http://www.reein.org)