

Developing Countries

Per Capita Generation between 0.2-0.6 Kg/day. National Average is 368.5 gm/person/day

Organic matter forms more than 30% of the total waste(Paper, metal etc.)

Primary Method of Collection is Street Sweeping.
No Segregation of waste carried out at source.

Primary responsibility lies with the municipality, relatively low private sector participation.

Regulatory environment is in place, but poor execution leaves a lot to be desired

Model of tipping fees is not very common in developing nations.

Quantity Generated

Waste Composition

Segregation

Privatization Level

Regulatory Framework

Tipping Fees

Developed Countries

Per Capita generation of more than 2 kg/day

Organic Matter constitutes about 30% paper, plastic, metal form large proportions

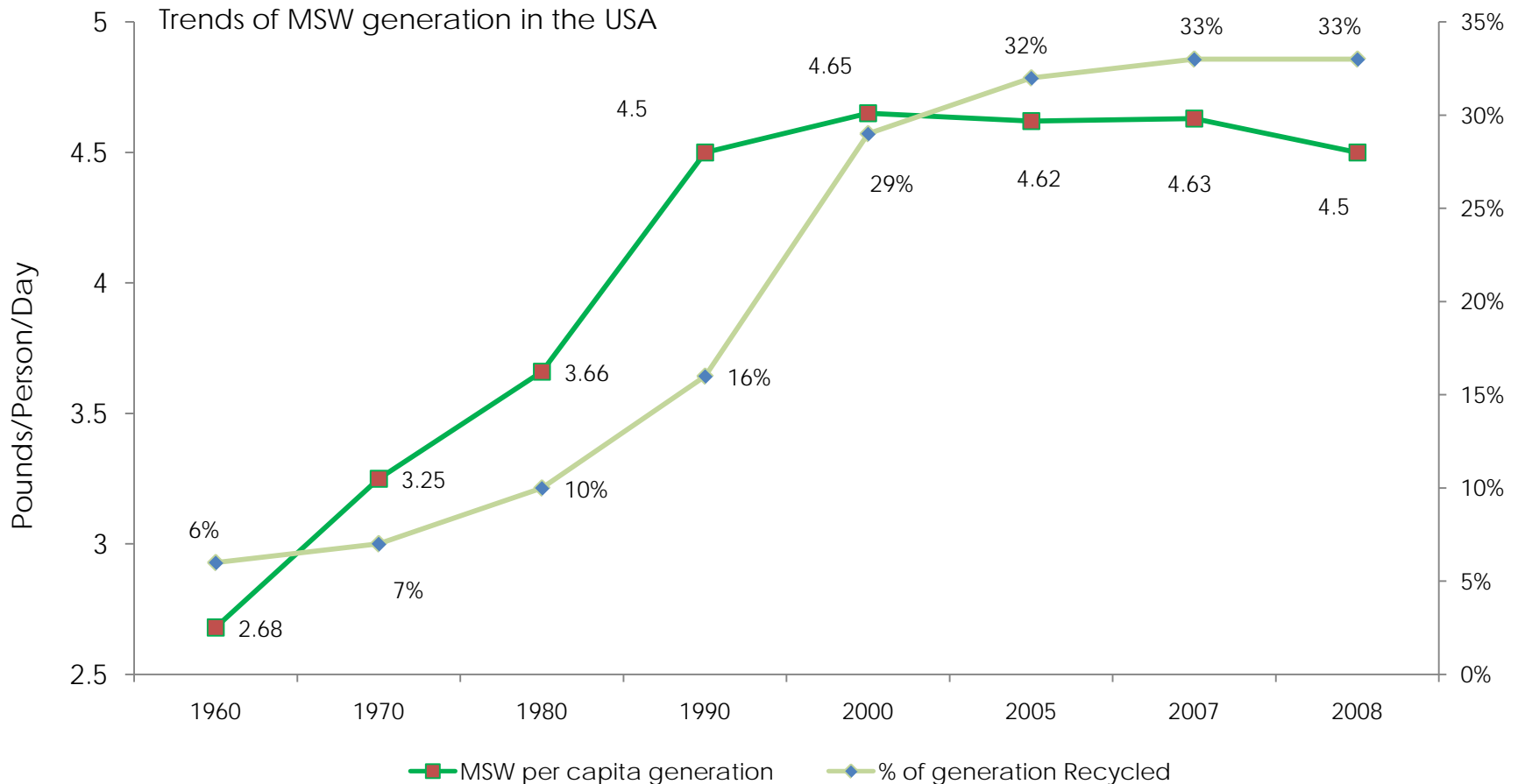
Primary Collection from doorstep. Segregation at source into paper, plastic and organic

Privatization is prevalent at all stages of waste management, from collection to disposal.

Strict regulations exist and are executed, lay procedures and standards for management of waste

Model of tipping fees exists (private player is paid a fee for service of waste disposal.

India to Eventually follow Developed Markets



- With economic development, the quantum of per capita MSW generation will increase
- Composition of MSW also changes with increased urbanisation and changing lifestyles
- Indian economy currently poised at a similar situation in which US economy was in the 1960's/70's

Challenges for Urban Bodies: Can be solved by PPP Model

- Funds to establish & operate integrated MSW management facilities
- Technical Expertise to set up and operate MSW management integrated facilities
- Commercial competence to engage private partner transparently – e.g. inviting ‘Expression of Interest’, ‘Request for Proposal’ and evaluating the proposals technically and financially
- Flight of Manpower (The experienced manpower is leaving given good opportunities in corporate infrastructure sector)
- Finding appropriate land along with buffer zone for MSW management facilities.
 - Political will coupled with lack of appreciation for this exigency.
 - Opportunity Cost
- Change of approach from populism to professionalism
 - Impartial administration & entrenchment
 - Transparent Tax / Duties / Levies imposition & realization