What a Waste 2.0: Funding Daily Solid Waste Management

Catalina Marulanda, Practice Manager
Local governments often lack funds, only covering ~50% of investment costs for waste systems. Remainder comes mainly from national government subsidies and the private sector.
In low-income countries waste management consumes ~20% of municipal budgets.

High income countries: >$100/tonne
Lower-income countries: ~$35/tonne
<table>
<thead>
<tr>
<th>Waste Management Type</th>
<th>Low-income countries</th>
<th>Lower middle-income countries</th>
<th>Upper middle-income countries</th>
<th>High-income countries</th>
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</thead>
<tbody>
<tr>
<td>Collection and transfer</td>
<td>20-50</td>
<td>30-75</td>
<td>50-100</td>
<td>90-200</td>
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<tr>
<td>Controlled landfill to sanitary landfill</td>
<td>10-20</td>
<td>15-40</td>
<td>20-65</td>
<td>40-100</td>
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<tr>
<td>Open dumping</td>
<td>2-8</td>
<td>3-10</td>
<td>-</td>
<td>-</td>
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<tr>
<td>Recycling</td>
<td>0-25</td>
<td>5-30</td>
<td>5-50</td>
<td>30-80</td>
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<tr>
<td>Composting</td>
<td>5-30</td>
<td>10-40</td>
<td>20-75</td>
<td>35-90</td>
</tr>
</tbody>
</table>

Source: WB Solid Waste CoP and Climate and Clean Air Coalition

<table>
<thead>
<tr>
<th>Region</th>
<th>Average user fee in selected cities (US$/year)</th>
</tr>
</thead>
<tbody>
<tr>
<td>East Asia and Pacific</td>
<td>$46</td>
</tr>
<tr>
<td>Europe and Central Asia</td>
<td>$83</td>
</tr>
<tr>
<td>Latin America and the Caribbean</td>
<td>$80</td>
</tr>
<tr>
<td>Middle East and North Africa</td>
<td>$55</td>
</tr>
<tr>
<td>South Asia</td>
<td>$34</td>
</tr>
<tr>
<td>Sub-Saharan Africa</td>
<td>$10-40 (World Bank estimates)</td>
</tr>
</tbody>
</table>
Waste management fee type and billing method

**Household billing method**

- **Low income**
  - Direct solid waste billing: 20%
  - Door-to-door fee collection: 5%
  - Joint property tax billing: 13%
  - Delivery of payment to central location: 44%
  - Other: 29%

- **Lower-middle income**
  - Direct solid waste billing: 34%
  - Door-to-door fee collection: 45%
  - Joint property tax billing: 13%
  - Delivery of payment to central location: 29%
  - Other: 43%

- **Upper-middle income**
  - Direct solid waste billing: 60%
  - Door-to-door fee collection: 61%
  - Joint property tax billing: 13%
  - Delivery of payment to central location: 50%
  - Other: 47%

- **High income**
  - Direct solid waste billing: 80%
  - Door-to-door fee collection: 80%
  - Joint property tax billing: 43%
  - Delivery of payment to central location: 50%
  - Other: 47%

**Household fee type**

- **Low income**
  - Fee per volume of waste: 5%
  - Flat fee per income level: 4%
  - Flat fee per household: 38%
  - Property Value: 14%
  - Propoerty Location: 43%
  - Variable based on cost: 29%
  - Other: 43%

- **Lower-middle income**
  - Fee per volume of waste: 6%
  - Flat fee per income level: 4%
  - Flat fee per household: 18%
  - Property Value: 15%
  - Propoerty Location: 50%
  - Variable based on cost: 27%
  - Other: 47%

- **Upper-middle income**
  - Fee per volume of waste: 20%
  - Flat fee per income level: 23%
  - Flat fee per household: 50%
  - Property Value: 9%
  - Propoerty Location: 47%
  - Variable based on cost: 27%
  - Other: 47%

- **High income**
  - Fee per volume of waste: 20%
  - Flat fee per income level: 23%
  - Flat fee per household: 50%
  - Property Value: 9%
  - Propoerty Location: 47%
  - Variable based on cost: 27%
  - Other: 47%
Can you **make money** from recycling?

**Global Waste Treatment and Disposal**

- **Open Dump**: 33%
- **Landfill (Unspecified)**: 25%
- **Sanitary Landfill**: 7.7%
- **Recycling**: 13.5%
- **Compost**: 5.5%
- **Incineration**: 11%
- **Controlled Landfill**: 4%

**Disposal Methods by Income**

- **High-income**
  - Open dump: 2%
  - Landfill: 39%
  - Recycling: 22%
  - Incineration: 22%
  - Composting: 6%
  - Other advanced methods: 6%

- **Upper-middle income**
  - Open dump: 30%
  - Landfill: 54%
  - Recycling: 4%
  - Incineration: 10%
  - Composting: 2%

- **Lower-middle income**
  - Open dump: 66%
  - Landfill: 18%
  - Recycling: 60%

- **Low-income**
  - Open dump: 93%

**Note:** The data represents the percentage of waste treated or disposed of through different methods across different income levels.
How are waste services funded in your country and city?