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Financing mechanisms and opportunities for financing activities for the Waste-to-Resource NAMA



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Estimating the financing requirements of the NAMA

The financing requirements – or total costs – of the NAMA programme would consist of two main components: i) “readiness” activities, and ii) project activities

Readiness activities

Preparatory activities that are necessary to set-up and ensure the operation of the NAMA:

- Preparatory/feasibility studies
- Capacity building
- Set-up of the MRV framework

Project activities

This includes costs associated with the implementation of concrete project activities:

- Waste treatment plants (e.g. composting, AD)
- Supporting infrastructure (e.g. containers, transfer stations, MRFs, etc.)
- Awareness raising and educational programmes

Funding requirements for project activities

Approach used to estimate funding requirements for **project activities** of the NAMA programme

1. Select target year: 2020

2. Estimate the amount of waste to generated in Viet Nam by 2020:

- Based on calculations of IMHEN, 47,781 ton of waste are estimated to be generated on a daily basis

3. Estimate amount of waste to be collected in Viet Nam by 2020:

- The National Strategy for Integrated Management of MSW up to 2025 sets as target that 90% of the waste generated in Viet Nam to be collected in 2020
- Based on this, 42,103 ton of waste per day should be collected in 2020

Funding requirements for project activities (cont.)

4. Estimate amount of waste to be treated in Viet Nam by 2020

- The National Strategy for Integrated Management sets that of the recovered waste in 2020, 70% should be recycled and recovered for the production of energy or organic fertilizer
- Based on this, 29,472 ton of waste per day should be processed in 2020

5. Assume scenario for technology mix for treating waste

- It was assumed that treatment methods of waste are in line with the measures endorsed by the NAMA, with the following breakdown:
 - ❑ Composting: 50% (or 14,736 ton per day in 2020)
 - ❑ Recycling of inorganics: 25% (or 7,368 ton per day in 2020)
 - ❑ Anaerobic digestion: 15% (or 4,421 ton per day in 2020)
 - ❑ Refuse-derived fuel: 10% (or 2,957 ton per day in 2020)

Funding requirements for project activities (cont.)

6. Estimate capital costs of technology solutions

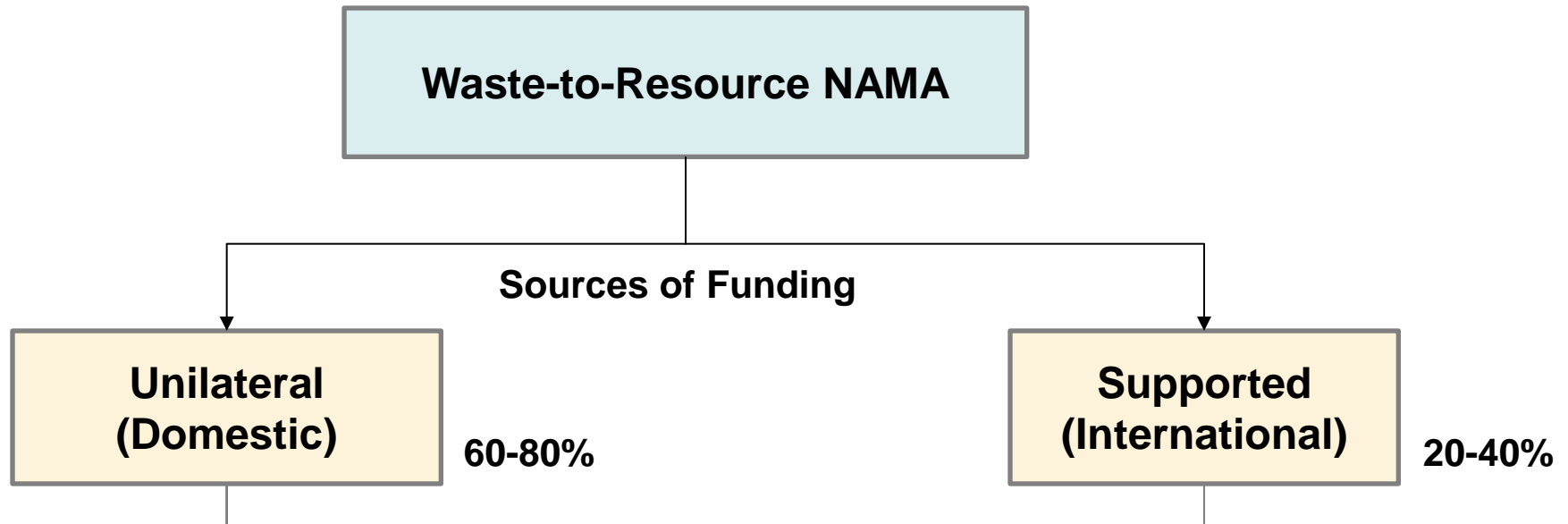
- Unit costs of treatment facilities can have wide variations, depending on many factors:
 - ❑ Composting plants: 100-30,000 USD/ton ;
 - ❑ Recycling facilities: 250-40,000 USD/ton;
 - ❑ Anaerobic digestion facilities: 10,000-75,000 USD/ton ;
 - ❑ RDF plants: 50,000-100,000 USD/ton

7. Matching the waste processing needs in 2020 with the technology costs

To meet the target laid out in the national strategy, capital requirements will be between **194 million USD and 1,363 million USD**

How can these financing requirements be met?

A key success factor in developing a NAMA is that domestic funds are used to leverage international climate financing



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