VIET NAM STRATEGY FOR INTEGRATED SOLID WASTE MANAGEMENT UNTIL 2025 AND VISION TOWARDS 2050

Osaka, 02/2013
I. Overview of the National Strategy on ISWM
II. Preparatory stage and organizational considerations
III. Process of the Strategy development
IV. Implementation
V. Monitoring
VI. Update
• **Title:** The national strategy for integrated management of solid waste until 2025 and vision towards 2050 (Decision No. 2149/QD-TTg of the Prime Minister)

• **Issued date:** December 17, 2009

• **Period:** from 2009 to 2025, with a vision to 2050
- Developed and approved the project of the Strategy development.
- Time-schedule for the project implementation process: Background studies; international experience study; review of situation of the country; development of the outline and the first draft; meetings, workshops.
- Registered the Strategy into the annual working program of the Government.
- Established Compiling Committee and working group: Participation of related ministries, lines and experts.
Develop
the National Strategy of Waste Reduction, Reuse and Recycling (3R)

Amend
the National Strategy of Solid Waste Management in Urban and Industrial Areas, 1999

The National Strategy on Integrated Solid Waste Management until to 2025 and vision towards 2050

Approved by the Prime Minister on 17th Dec 2009 according to Decision No. 2149/QD-TTg

Project “Support development of the National Strategy of 3R” with support from:
- UNCRD
- MoEJ
- ADB
- IGES
PROCESS OF THE STRATEGY DEVELOPMENT

- 2005: Signing MOU between UNCRD and DOE/MONRE
- 2006: Background studies
- 2007: Development of the outline and the first draft
- 2008: Consultation process:
  - National experts workshop
  - 03 regional workshops
  - In-house review
- 2009: Donors consultation workshop
- 6/2009: Final Draft of the National 3R Strategy
- 6-12/2009: Combining with the MOC Strategy and submitted to the Prime Minister to approve the National Strategy on Integrated Solid Waste Management
Contents of the Strategy

- Viewpoints, Objectives
- Tasks of the Strategy
- Solutions of the Strategy
- Implementation arrangement
- Programmes of the Strategy
5 viewpoints:

- Integrated management of solid waste is the responsibility of society as a whole, with the State playing the lead role in increasing its socialization, mobilizing its resources to the maximum extent, and strengthening investment in integrated solid waste management.

- Integrated management of solid waste is to occur in an inter-regional and intersectoral manner in order to ensure that economics, techniques, and the safety of society and the environment are optimized, in connection with economic and social development planning, construction planning and other development planning.

- Integrated management of solid waste is a priority of environmental protection, contributing to pollution control for the sustainable development of the country.
- Integrated management of solid waste shall comply with the “Polluter pays principle” by which the organizations and individuals who produce waste, causing environment pollution and degradation, shall be responsible for paying the rehabilitation costs, as well as compensation for environmental damages, according to legal regulations.

- Integrated solid waste management should give highest priority to the prevention and minimization of solid waste generation, and to the at-source sourcing of waste, with the aim of enhancing reuse and recycling in order to reduce the volume of waste that needs to be landfilled.
Objectives of the Strategy

Overall objective to 2025
- To raise the effectiveness of integrated solid waste management for environment quality improvement, community health protection and the sustainable development of the country.
- A system of integrated solid waste management fully developed, resulting in solid waste being sorted at sources, collected, reused, recycled and comprehensively treated by suitable and advanced technologies, limiting to the maximum extent the volume of solid waste that needs to be landfilled, in order to economize land resources and prevent environmental pollution.
- To raise community awareness about integrated solid waste management, so that they live more environmentally friendly lifestyles. To establish the necessary conditions for the infrastructure, finance and human resources required for the integrated solid waste management.

Specific Objectives: 10 specific objectives for different periods: until 2015, 2020 and 2025
Major tasks of the Strategy

1. Prevention and reduction of solid waste generation
2. At-source solid waste sorting promotion
3. Improving the collection and transportation of solid waste
4. Accelerating solid waste reuse and recycling
5. Solid waste treatment
6. Restoration of the ambient environment of solid waste treatment facilities
Solutions/Actions for implementation

07 solutions:
- Completing the system of legislation and policies on solid waste management
- Promote master planning of integrated solid waste management
- Establishment of a solid waste database and data monitoring system nationwide
- Building human and financial resources to implement the Strategy
- Scientific research acceleration to serve sound management of solid waste effectively
- Propaganda and education for better awareness
- Enhance international cooperation
Approving the principles of the strategy implementation program: 10 programs.

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<th>No.</th>
<th>Name of the Programs</th>
<th>Targets</th>
<th>Completing time</th>
<th>Presiding organizations</th>
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| 1   | Program on accelerating the prevention, reduction, reuse and recycling of solid waste | - Developing and implementing the solutions for the prevention, minimization, reuse, and recycling of solid waste  
- Developing the recycling sector                                                                                                         | 2020            | Ministry of Natural Resources and Environment               |
| 2   | Program on accelerating at-source solid waste sorting                                 | - Developing regulations and guidelines for at-source sorting of solid waste  
- Replicate the model of at-source solid waste sorting.                                                                                   | 2015            | Ministry of Natural Resources and Environment               |
<p>| 3   | Program on investment in building solid waste disposal plants at the regional level   | - Building solid waste disposal plants at the regional level in economic areas throughout the whole country, as approved by the Prime Minister.                                                      | 2020            | Ministry of Construction                                   |</p>
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<td>4</td>
<td>Program on urban household solid waste treatment in the period of 2009 to 2020</td>
<td>- Building urban household solid waste treatment plants for all localities throughout the whole country, applying technologies which minimise the need to send waste to landfill.</td>
<td>2020</td>
<td>Ministry of Construction</td>
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| 5   | Program on the environmental recovery of solid waste treatment and landfilling facilities | - Handling with refuse landfills which cause severe environmental pollution, as specified in Decision No. 64/2003/QD-TTg.  
- Recovering and upgrading solid waste landfills throughout the whole country to achieve environmental standards. | 2020           | Ministry of Natural Resources and Environment               |
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<td>6</td>
<td>Program on strengthening solid waste management in rural areas and craft villages</td>
<td>- Strengthening management of solid waste in the rural areas and craft villages.</td>
<td>2020</td>
<td>Ministry of Agriculture and Rural Development</td>
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<td>7</td>
<td>Program on developing a solid waste database and monitoring system</td>
<td>- Developing synchronically a solid waste database and system of monitoring throughout the whole country, in order to increase the effectiveness of solid waste management at the local to central levels.</td>
<td>2020</td>
<td>Ministry of Natural Resources and Environment</td>
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<td>8</td>
<td>Program on education to raise public awareness</td>
<td>- Improving the awareness of the public about sorting, reduction, reuse, and recycling of solid waste, and sanitation, through propaganda and education.</td>
<td>2015</td>
<td>Ministry of Information and Telecommunication</td>
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<td>9</td>
<td>Program on developing the system of policies, laws and institutions on the integrated management of solid waste</td>
<td>- Completing the system of standards, regulations, guidelines, policy mechanism, and institutions on the integrated management of solid waste.</td>
<td>2015</td>
<td>Ministry of Construction</td>
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<td>10</td>
<td>Program on solid waste disposal by the health sector in the period of 2009 to 2025</td>
<td>- By 2025, ensuring 100% of solid waste emissions from health establishments will be collected and treated, according to environmental standards.</td>
<td>2025</td>
<td>Ministry of Health</td>
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IMPLEMENTATION

• **MOC**: Coordinate the implementation of the strategy content; review and promulgate a comprehensive system of technical regulations, standards, technical and economic norms of managing solid waste; research solid waste management planning.

• **MONRE**: policies, mechanisms and tools SWM, sorting waste at source; built database of solid waste; technical regulations, environmental standards for solid waste, the technical guidance on reducing, reusing and recycling waste; ...

• **MPI**: mobilization, find new sources of investment capital; allocation.

• **MOF**: mechanisms and financial policies, and charges in the integrated management of solid waste; allocation of the annual state budget for the operation of integrated solid waste management.

• **Other Ministries**: Strategy implementation in the fields which are assigned
Lessons Learnt from Strategy development

- Cooperation with the relevant stakeholders, especially the Ministry of Construction (MOC), which is mandated with municipal solid waste management.
- Participation with experts, scientists and management people contribute much to the strategy.
- Projections of the solid waste generation play an important role.
- International review, especially experts from Japan, helped finalization/completion of the Strategy.
- International experiences play a key role.
Challenges of Strategy implementation

- Limited financial resources
- Inadequate infrastructure
- Appropriate technologies:
  - Composting is quite ineffective
  - Incineration is expensive
  - Landfilling needs investments
- Low awareness
MONITORING

• Responsibility:
- Ministries: MOC and MONRE

- Activities:
2. Review and evaluate the implementation process
3. Report to the Government on the implementation of the Strategy and recommendations to the Government about the problems, difficulties and solutions in the process of implementation of the Strategy
- Approved plannings of solid waste treatment facilities for regions by 2020 (such as for 3 key economic regions in the North, Central and South (Decision 1440/QĐ-TTg dated 06 Oct 2008) and for the key economic region - Mekong Delta (Decision 1783/QĐ-TTg dated 11 Oct 2010)

- Issued the State of Environment Report 2011 - solid waste

- Decision 798/QĐ-TTg dated 25 May 2011 approved investment programme in solid waste treatment in the period 2011 - 2020

- 3R Program is being finalized to submit to the Prime Minister for approving in 2013

- Implementing waste audit project and will submit to the Prime Minister for approving the project of pilot application of waste audit in 2013.
Thank you for your attention!
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