

PRIME MINISTER

SOCIALIST REPUBLIC OF VIETNAM

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Independence - Freedom - Happiness

No: 2149/QĐ-TTg

*Ha Noi, 17 December*

2009

**DECISION**

**on approving the National Strategy of Integrated Solid Waste  
Management  
up to 2025, vision towards 2050.**

**THE PRIME MINISTER**

Pursuant to Law on Government Organization on 25 December 2001;

Pursuant to Law on Environmental protection on 29 November 2005;

Pursuant to on Construction on 26 November 2003;

Pursuant to Decree No. 59/2007/ND-CP on 9 April 2007 by the Government on Solid  
Waste Management;

On consideration of the proposal of the Minister of Construction and Minister of  
Natural Resources and Environment.

**DECIDES :**

**Article 1.** To approve the National Strategy on Integrated Solid Waste Management of  
up to 2025, vision towards 2050 with the following contents:

**1. Viewpoints:**

- Integrated management of solid waste is the responsibility of the whole society where  
the State play the main role, boost socialization, mobilize all resources and strengthen  
investment in solid waste management.

- Integrated management of solid waste is realized in the manner of inter-region and  
inter-branch to ensure the optimization in terms of economics and techniques, the safety of  
society and environment, in connection with economic and social development, construction  
planning and other development planning.

- Integrated management of solid waste is one of the priorities of environment protection, making contributions to pollution control and orienting to sustainable development of the country.

- Integrated management of solid waste shall follow the “polluters pay principle”, of which the organizations, individuals, who produce wastes, cause environment pollution and degradation shall have responsibility to pay costs and indemnity and recover damages according to legal regulations.

- Solid waste management shall be carried out in an integrated approach, of which prevention, minimize the generation of wastes at source, shall be the priority, promote reuse and recycling waste to limit volume of wastes to be landfilled.

## **2. Vision towards 2050**

It is expected by 2050 that all kinds of solid wastes will be collected, reused, recycled and treated completely by advanced technologies which are environmentally friendly, suitable to each locality and limiting the landfilling waste to the minimal level.

## **3. Objectives**

### *a) Overall target to 2025*

- To raise the effectiveness of integrated solid waste management for environment quality improvement, ensuring community health and sustainable development of the country.

- A system of integrated solid waste management shall be built. As a result, solid waste is sorted at sources, collected, reused, recycled and treated completely by suitable advanced technologies, minimizing wastes to be landfilled in order to economize land resources and prevent the environment from pollution. Hazardous solid waste should be managed and handled in suitable ways.

- To raise the awareness of the community about integrated solid waste management, forming environmentally friendly lifestyle. Necessary conditions of infrastructures, finance and human resources for integrated solid waste management will be established.

### *b) Specific targets:*

#### *- To 2015:*

+ 85% of the total solid wastes from households in urban area will be collected and treated in an environmentally manner, of which 60% will be recycled, reused, recovered energy or produced organic fertilizer.

+ 50% of the total solid wastes of constructions sites from cities will be collected of which 30% will be reused or recycled.

+ 30% of the sludge from cities of grade 2 upward and 10% of the remaining ones will be collected and treated in an environmentally manner.

+ Reducing 40% of the nylon bags used at supermarkets and commercial centers against that of 2010.

+ 50% of cities, which have their own recycling facilities, shall carry out waste separation at source at households.

+ 80% of the total generated non-hazardous industrial waste will be collected and treated in an environmentally manner, of which 70% will be reused and recycled.

+ 60% of the total hazardous waste generated at industrial parks will be treated in an environmentally manner.

+ 85% of the hazardous and 70% of the non-hazardous solid waste from health sector will be collected and treated by environmentally friendly manners.

+ 40% of the solid waste generated from rural areas and 50% from craft villages will be collected and treated by environmentally friendly manners.

+ 100% landfills that causing severe environment pollution listed in the Decision 64/2003/QD-TTg dated 22 April 2003 by the Prime Minister will be handled.

- *Up to 2020:*

+ 90% of the total solid wastes generated from households in urban area will be collected and treated by environmentally friendly manners, of which 85% will be recycled, reused, recovered energy or produced organic fertilizer.

+ 80% of the total solid wastes of constructions sites from cities will be collected of which 30% will be reused or recycled.

+ 50% of the sludge from cities of grade 2 upward and 30% of the remaining ones will be collected and treated by environmentally friendly manners.

+ Reducing 65% of the nylon bags used at supermarkets and commercial centers against that of 2010.

+ 80% of cities, which have their own recycling facilities, shall carry out waste separation at source at households.

+ 90% of the total generated non-hazardous industrial waste will be collected and treated by environmentally friendly manners, of which 75% will be reused and recycled.

+ 70% of the total hazardous waste generated at industrial parks will be treated by environmentally friendly manners.

+ 100% of the hazardous and non-hazardous solid waste from health sector will be collected and treated by environmentally friendly manners.

+ 70% of the solid waste generated from rural areas and 80% from craft villages will be collected and treated by environmentally friendly manners.

- *Up to 2025:*

+ 80% of cities, which have their own recycling facilities, shall carry out waste separation at source at households.

+ 100% of the total solid wastes generated from households in urban area will be collected and treated by environmentally friendly manners, of which 90% will be recycled, reused, recovered energy or produced organic fertilizer.

+ 90% of the total solid wastes of constructions sites from cities will be collected of which 60% will be reused or recycled.

+ 100% of the sludge from cities of grade 2 upward and 50% of the remaining ones will be collected and treated by environmentally friendly manners.

+ Reducing 85% of the nylon bags used at supermarkets and commercial centers against that of 2010.

+ 100% of the total generated non-hazardous and hazardous industrial waste will be collected and treated by environmentally friendly manners.

+ 90% of the solid waste generated from rural areas and 100% from craft villages will be collected and treated by environmentally friendly manners.

#### **4. Basic tasks and solutions:**

##### *a) Basic tasks:*

##### - Prevention and mitigation of solid waste emissions:

+ Performing the integrated solid waste management following market mechanism and, introduce charging based on the generated waste volume.

+ Strengthening waste minimization from daily life, production and service sector.

+ Controlling strictly scrap import.

##### - Acceleration of sorting solid waste at source:

+ Mobilizing the participation of the community in sorting solid waste at sources.

+ Developing infrastructures, collecting and treating separately each type of solid waste after being sorted.

##### - Intensification of solid waste collection and transport:

+ Improving the capacity of solid waste collection and transport.

+ Widening the solid waste collection network.

+ Boosting up the socialization of solid waste collection and transport.

##### - Promoting solid waste reuse and recycling:

+ Stepping up solid waste reuse.

+ Developing waste markets and building a waste economy.

+ Developing recycling industry.

+ Encouraging recycling products purchase.

+ Building and applying incentive policies for recycling practices .

+ Create recycling funds.

##### - Solid waste treatment:

+ Completing mechanism and policies relating to solid waste treatment.

- + Applying solid waste advanced technologies which are safe and suitable to the conditions of each locality; minimizing waste landfilling.
- Environmental recovery for solid waste disposal establishments:
  - + Instructing procedures and plans to recover environment.
  - + Mobilizing financial sources for environment recovery.

*b) Solutions for the Strategies:*

- Completing the system of legal documents and policies on solid waste management.
  - + Promulgating regulations and policies to encourage the minimization, reuse and recycling of wastes, especially the mitigation of nylon bag use and the recycling of organic waste.
  - + Finalizing regulations and mechanisms of fees of sanitation and environmental protection from solid wastes; by 2020 ensuring recovery of collection and transport fees, and by 2025 compensating partly for solid waste disposal costs.
  - + Guiding the State's incentive policies performance for investment projects of building solid waste treatment establishments.
  - + Promulgating regulations, mechanisms and guidance to take back some of end - of - life wastes and products according to the stipulations in Article 67 of Law on Environment.
  - + Promulgating regulations and mechanisms to support and encourage recycling practices and instructions.
  - + Promulgating codes and standards on storage, collection and transport vehicles of normal and hazardous solid wastes.
  - + Completing regulations, guidance and control of service contracts of normal and hazardous solid wastes collection, transport and treatment.
  - + Setting up standards on solid waste equipments for environment and equipment life-expectancy insurance.
  - + Building regulations on managing each of recycling productions from collection and storage to transport and recycling.
  - + Issuing regulations on construction wastes management.
  - + Building regulations on management of sludge from septic tank.
  - + Issuing documents to guide performance of solid waste projects according to Clean Development Mechanism.
  - + Issuing technical guidelines on recycling construction waste, collecting and treating mud of septic tank and hazardous waste.
  - + Supplementing and building new standards and codes of landfills and treatment facilities of hazardous and non-hazardous solid waste.
  - + Issuing and technical guidelines on solid waste management planning/zoning.

- + Building regulations and rules on periodical report on solid waste management and indicators needs to be reported.
- + Building regulations on monitoring/surveying solid waste data.
- + Promulgating regulations on reward and punishment for law violation toward solid waste management.
- + Promulgating regulations and documents to instruct environmental protection and solid waste management for each kind of typical village.
- + Stipulating responsibility for State governance and mechanism between relating ministries and branches, central and local levels in solid waste management.
- + Building solid waste management mechanism among the State authorities in managing and enterprises in collecting, transporting and handling solid wastes.
- + Building regulations on organizing and managing inter-province solid treatment area and coordination between relating localities.
- Planning and management of solid wastes
  - + Developing and implementing the planning of building solid waste disposal complex for economic areas nationwide.
  - + Developing and implementing the planning of solid wastes management for all provinces and cities in the country.
  - + Reviewing the implementation of the content of solid waste management planning in urban and rural settlement planning.
  - + Building and implementing the planning, construction of solid waste disposal facilities to wards and communes level and mobilize funding for this activity.
- Establishment of solid waste database and data surveying system nationwide.
  - + Investigating, surveying, collecting, analyzing and assessing solid waste data in the whole country.
  - + Establishing a system of database at central and local levels (build software and training).
  - + Developing and carrying out a plan of building a system of solid waste surveying/monitoring stations nationwide.
- Building resources to implement the Strategy.
  - + Mobilizing every capital source for solid waste management: state budget, environmental protection fund, local and international enterprises....
  - + Founding a solid waste recycling fund to support solid waste minimization and recycling.
  - + Looking for aids from ODA or selling of certified emission reduction (CERs) when solid waste disposal technologies are applied in accordance with CDM (Kyoto protocol)...

- + Training to improve solid waste management capacity for officers at all levels from central to local.
- Scientific research acceleration for integrated solid waste management effectively.
  - + Continuing to develop a system of environment research agencies, scientific research on solutions for integrated management of solid waste; Encouraging the foundation of Research and Development (R&D) Department in each enterprise to improve and design new products with environment- friendly features, saving material and energy. Promoting close, coherent and effective cooperation between research institutions and enterprises.
  - + Strengthening research of solid waste disposal technologies which are appropriate for Vietnam, looking forward reusing, recycling and minimizing the quantity of solid waste to landfills; Reinforcing studies for improving solid waste recycling technologies at craft villages, dissemination and support the application for improvement of environment quality and reducing impacts on people's health.
  - + Implementing research programs and projects of policy, technique and technology at the state and ministry level on integrated management of solid waste, especially paying attention to the applicability of scientific research results into the reality of life and production.
- Propaganda and education for better awareness
  - + Building and implementing media campaign for raising the awareness of the public at schools, community and business establishments; encouraging them to take part in sorting garbage at sources, minimize, reuse and recycling solid waste, limit use of nylon bags and not litter rubbish pell-mell...
  - + Carrying out environment education at different school levels with the contents and volumes suitable to each age level.
  - + Consulting and guiding the realization of legal documents relating to solid waste management.
  - + Preparing solid waste management programs for training in enterprises (solid waste prevention and minimization, use of environment-friendly materials, solid waste collection and transport in conformity with the rules...)
  - + Realizing pilot activities and initiatives to help better solid waste management.
- International cooperation
 

Strengthening technical exchanges and cooperation with international organizations, non-government organizations in order to:

  - + Experience exchange and learning in solid waste management sector.
  - + Investing in building solid waste infrastructure.
  - + Receiving technique support, technology transfer and training of solid waste management.

+ Raising the capacity of solid waste management.

## **5. Strategy implementation program:**

Approving the principles of the strategy implementation program in the Annex enclosed.

### **Article 2. Organization of Strategy implementation**

1. The Ministry of Construction plays the main role, in coordination with the Ministry of Natural Resources and Environment, relating ministries and branches, People's Committees of the provinces and cities under the Central Government, to finalize their tasks: Coordinating the implementation of Strategy contents; instructing, guiding and summarizing the results of carrying out Decree No. 59/2007/ND-CP on 09 April 2007 by the Government on solid waste management; Reviewing and promulgating consistently a system of technical regulations, economic and technique standards and norms of solid waste management; Organizing research and planning of solid waste management for regions, inter-provinces and inter-cities and specific areas. Coordinating with the Ministry of Natural Resources and Environment to prepare reports on strategic environmental assessment (SEA) for approval according to the legal regulations.
2. The Ministry of Natural Resources and Environment preside over and coordinate with relating ministries and branches, provincial and municipal People's Committees to implement the tasks: Building and promulgating policies, mechanisms, instruments for prevention, minimization, reuse and recycling of waste, at-source waste sorting; Building database of solid waste nationwide, guiding techniques of minimizing, reusing and recycling wastes; Implementing awareness raising programs, improving the capacity of sound management of solid waste; monitoring and supervising environment pollution situation in the whole nation; Coordinating strictly with the Ministry of Construction in regulating and realizing the contents of the Strategy and preparing report on strategic environmental assessment (SEA) for approval.
3. The Ministry of Planning and Investment have responsibility to mobilize and seek for capital sources from domestic and international organizations and individuals; Distributing annual budget capital for carrying out various programs and projects of solid waste management of the Strategy.
4. The Ministry of Finance preside over and coordinate with the Ministry of Construction, Ministry of Natural Resources and Environment to complete mechanism and polices on finance and fees in integrated management of solid waste; arrange the State budget annually for sound management of solid waste.
5. The Ministry of Science and Technology preside over, in coordination with the Ministry of Construction to organize research and transfer of treatment technology and those ones for manufacturing and producing new equipment and materials for integrated management of solid waste.

6. The Ministry of Industry and Commerce are responsible to: Support enterprises and owners of waste sources to have plans of waste prevention and minimization, impulse applications of cleaner production, the system of environment management ISO14000; Construct and implement the planning of developing environment industry sector including waste recycling industry.
7. The Ministry of Health have responsibility to improve their investigation and supervision of health establishments, carry out strictly regulations on health waste management in the whole country.
8. The Ministry of Agriculture and Rural Development preside over, in coordination with the Ministry of Construction, Ministry of Natural Resources and Environment to build and carry out detailed programs and plans to upgrade the effectiveness of solid waste management for rural settlements and craft villages.
9. The Ministry of Information and Telecommunication build and realize media plans in media mass so as to raise the awareness of the public in environmental protection in general and sound management of solid waste in particular.
10. The Ministry of Education and Training have responsibility to review, assess, compile and put the contents of environment education, sound management of solid waste into training at different grades.
11. Provincial and municipal People's Committees have responsibility to: implement Decree No.59/2007/ND-CP on 9 April 2007 by the Government on solid waste management; promulgate specific incentive policies in solid waste management at localities; build, issue and organize the implementation of procurement or ordering mechanism for solid waste collection, transport and treatment; instruct solid at-source waste sorting; consolidate the organization and arrangement of renewing state enterprises in service of public interest within the area; organize checking, investigating and punishing strictly violations in solid waste management; make propaganda and raise the awareness and responsibility of organizations and individuals about sound management of solid waste and environment with the area.

**Article 3. The decision comes into effect as from the signing date.**

Ministers, Heads of ministerial-level agencies, Heads of agencies under the Government, Presidents of provincial and municipal People's Committees and Heads of relating agencies have responsibility to realize this decision.

**To:**

- Secretariat of the CPV Central Committee;
- Prime Minister and Vice Prime Ministers;
- Ministries, ministerial-level agencies, agencies under the Government;
- Offices of the Steering Committee of prevention and anti-corruption;
- People's Committees of provinces and cities under the Central Government;
- Offices of the Central Government and Central Committee of the CPV;
- Office of the President of the State;
- People Council and Committees of the National Assembly;
- Office of the National Assembly;
- People's Supreme Court;
- People's Supreme Procuracy;
- State Auditing;
- National Committee of Finance Supervision;

**FOR THE PRIME MINISTER  
VICE PRIME MINISTER**

*(signed and sealed)*  
**HOANG TRUNG HAI**

- Bank of Social policy;
- Central Committees of the Vietnamese Fatherland Front;
- Central body of organizations;
- Governmental Offices: BTCN, PCNs, Electronic Information Portals, Departments, subsidiary units, Official gazettes;
- Filed at: Archives, KTN (5 copies).

**Annex**

**LIST OF THE PROGRAMS OF IMPLEMENTING THE NATIONAL  
STRATEGY OF INTEGRATED SOLID WASTE MANAGEMENT  
TO 2025, VISION TOWARDS 2050**

*(Promulgated with Decision No.2149/QĐ-TTg on 17 December  
2009*

*by the Prime Minister)*

<b>No.</b>	<b>Name of the Programs</b>	<b>Targets</b>	<b>Completing time</b>	<b>Presiding organizations</b>	<b>Main coordinating organizations</b>
1	Program on accelerating the prevention, minimization, reuse and recycling of solid wastes	- Building and implementing the solutions for prevention, minimization, reuse and recycling of solid waste  - Developing recycling industry sector	2020	Ministry of Natural Resources and Environment	Other Ministries: Construction, Industry and Commerce, Health, and other relating ministries, People's Committees of the provinces and cities
2	Program on accelerating at-source waste sorting	- Building the regulations on guiding at-source waste sorting	2015	Ministry of Natural Resources and Environment	Other Ministries: Construction, Industry and Commerce, Health, Finance and People's Committees of the provinces and cities
3	Program on investment in building solid waste disposal facilities at regional level	- Building solid waste disposal Plants at regional levels for economic areas in the whole countries approved by the Prime Minister.	2020	Ministry of Construction	Other Ministries: Industry and Commerce, Health, Planning and Investment, Finance, Natural Resources and Environment, Science and Technology and People's Committees of the provinces and cities

No .	Name of the Programs	Targets	Completing time	Presiding organizations	Main coordinating organizations
4	Program on treatment of household solid waste in urban area	- Building household and urban solid waste disposal plants for all localities in the whole country, applying technologies which allow limiting landfilling.	2020	Ministry of Construction	Other Ministries: Planning and Investment, Finance, Natural Resources and Environment, Science and Technology and People's Committees of the provinces and cities
5	Program on environmental recovery of solid waste dumping sites	- Implementing absolute erasement of refuse landfill which cause environment pollution severely as specified in Decision No. 64/2003/QD-TTg. - Recovering and upgrading solid waste landfill in the whole country to reach the environment standards.	2020	Ministry of Natural Resources and Environment	Other Ministries: Construction, Finance, Planning and Investment and People's Committees of the provinces and cities
6	Program on strengthening solid waste management in rural areas and craft villages	- Strengthening integrated management of solid waste in the rural areas and trade villages.	2020	Ministry of Agriculture and Rural Development	Other Ministries: Natural Resources and Environment, Construction, and People's Committees of the provinces and cities
7	Program on building solid waste database and surveying	- Building in sync. the system of solid waste database and surveying in the whole country in order to raise the effectiveness of solid waste management from local to central levels.	2020	Ministry of Natural Resources and Environment	Other Ministries: Construction, Industry and Commerce, Health and People's Committees of the provinces and cities
8	Program on education to raise the public's awareness	- Improving the awareness of the public about sorting, minimization, reuse and recycling of solid waste, and sanitation through propaganda and education.	2015	Ministry of Information and Telecommunication	Other Ministries: Education and Training, Industry and Commerce, Health, Construction, Natural Resources and Environment.

No.	Name of the Programs	Targets	Completing time	Presiding organizations	Main coordinating organizations
9	Program on building the system of policies, laws and institutions on integrated management of solid waste	- Completing the system of standards, regulations, guiding techniques, policy mechanism and institutions ...on sound management of solid waste.	2015	Ministry of Construction	Other Ministries: Natural Resources and Environment, Industry and Commerce, Health, Finance, Planning and Investment, Science and Technology.
10	Program on solid waste treatment of health sector in the period of 2009 to 2025	- Ensuring to 2025, 100% of solid waste emissions from health establishments to be collected and treated to environment standards.	2025	Ministry of Health	Other Ministries: Natural Resources and Environment, Construction and Finance.