

Recycling Policy and Activities



Ministry of Environment Republic of Korea

1. Paradigm Shift

From 'Waste Management' to 'Promotion of Resource Recirculation'



New Paradigm

Shortage of Resource/Energy Climate Change

Green Growth through the enhancement of resource productivity

Effective production, distribution and consumption, Material recycle, Energy Recovery

Evaluation of resource recirculation rate, promotion of urban mining, Expansion of energy recovery facilities, conurbation of collection and treatment

2. Priority of the Policies



3. Waste Management Status

Generation of wastes



4. Waste Treatment



Industrial Wastes



5. 3R Policy Goals (2012)



6. Material recycling

	Recovery of gold, silver and bronze from wasted mobile
Promotion of	phone, TV, refrigerator etc.(more than 10% by 2013)
Urban Mining	Recovery of recyclable materials e.g. metals and synthetic resins
	from ELV (more than 95% of recovery by 2015)

Expansion of recycling infra structure & Certification on recycled goods	 Recycling Infra Structure: Eco-Recycling-Center, Public recycling center, Local recycling center Certifying system on recycled goods → reliable & safe goods - Certification standard on 33 byproducts by 2011, Establishing Quality Certification Center in 2009
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Extended Producer Responsibility(EPR)

- Iong-term plans for EPR
- Specialized collection, recycling system
- Expansion of individual industries and goods in accordance with each industry's condition
- 15 items including metal cans, glass bottles, TV in 2003, and expanded to 24 items in 2008
- Total recycling amount in 2007 was 1.385 million tons
 - * 32% increase compared to 0.94mil. Ton in 2002

Promotion of EEV Recycling

- Enforcement of Acts on EEV (Electrical/Electronic equipment and Vehicles) resource circulation('08)
- Improvement of materials and design for EEV
- Achievement of mandatory recycling rates

- Assessing and publicizing the use of recyclable materials and readiness to
- separate and disassemble
- Increasing recycling rates to 65–80% for end–of–life electrical/electronic quipment
- Imposing mandatory recycling rates for end-of-life vehicles of over 85%

7. Energy Recovery

Waste-energy town,	 Construction of Waste Energy Town by 2112
Bio-energy village	(1~2 towns per each 10 great wide areas) RDF plant (20 plants) & relevant power plant(10 plant) 'Low Carbon & Green Growth Town' in rural area (600 by 2020) 4 pilot projects(2010), Self-energy-support in rural areas into 40~50%

Installation of energy recovery facilities	 Number of energy recovery facilities to 57(14,160ton/day) by 2012 Improvement of local landfill gas power plant & exhaust heat recovering system by 2012 Installation of exhaust heat recovering system in existing 44 incinerators & landfill gas refining system in 27 landfill sites

Expansion of R&D & capacity building	 Enhancing the waste-to-energy technology up to 90~95% to the level of advanced counties Human resource development in the fields of waste-to-energy (10,000 experts by 1013) Support on relevant colleges, facilities and institutes
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Promotion of Food Waste-to-Energy System

- Considering that 95% of feed and/or feed ingredients are being imported into Korea
 - Mandatory installation of food waste-to energy facilities by residential land/resort developers from 1997
 - Design of roadmap for food waste-to-energy system in 1998 to reduce 10% of food wastes and to recycle 60% of those generated by 2002
 - As a result, 81.3% of food waste was recycled as feed/compost in 2004

Expansion of Food Waste-to-Energy System

- Setting quality assurance system and distribution channels of recycled feed/compost
 - Pursuing quality assurance system for each producer, a public procurement of recycled products, and a distribution management information system for recycled products
 - * constant increase in the use of recycled feed : 3,169 ton/day (2000) 5,353 ton/day (2006)
- Expansion and improvement of food waste treatment facilities
- Gradual increment in food waste treatment by public facilities: 29%(2005) 60%(2011)

Thank You

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