

STATUS OF FOOD WASTES MANAGEMENT AND FUTURE IN KOREA

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1. POLICY OF FOOD WASTES REDUCTION AND RECYCLING

1.1 Results in of Food Wastes Recycling in 1999

1.1.1 Food wastes generation and recycling rate

- Feed 2,400 ton/day , Composting 1,460 ton/day
- < Food Wastes Generation and Recycling Rate >
- < Food Wastes Recycling Facilities Increasing >

1.1.2 Improving System of Food Wastes Reduction and Recycling

1.1.3 Implementation of Food Wastes Reduction Policy

1.1.4 Research & Development of Food Wastes Reduction and Recycling

1.2 Goals of Food Wastes Reduction and Recycling

1.3 Planning in Food Wastes Reduction and Recycling

- Minimizing of Food Wastes
- Improvement of System for Separation of Food Wastes (Source, Collection, Transport)
- Expansion of Facilities for Food Wastes Recycling
- Increasing consumption of Food Wastes Recycling Goods
- Improving Management for Food Wastes Reduction and Recycling

2. CASES OF FOOD WASTES RECYCLING

2.1 Cases of Diversion to Feed from Food Wastes

2.1.1 Joong Gu in Seoul(Feed)

- the downtown area of Seoul
- 1) Food wastes generation rate
- 2) Facilities to Feed from Food Wastes

2.1.2 Cheonan city

- 1) Facilities to Feed from Food Wastes

2.1.3 Wonju City

- 1) Apartment Households 84% participate in separating of Food Wastes
- 2) Recycling of food wastes

2.2 Cases of Diversion to Compost from Food Wastes

2.2.1 Ansan city

- 1) Solid wastes generation rate
- 2) Treatment of food wastes(1999)
- 3) Facility of Food Wastes Composting
 - Capacity : 70 ton/day
 - Aerobic Composting
 - Capital Cost : US \$ 2,360,000
 - Construction period : '98. 12 ~ '99. 9
- 4) Effect

Saving : US \$ 715,400/year (1,022,000 - 306,600)

- landfill : US \$40/ton×70ton/day×365days/year = US \$ 1,022,000/year

-Composting : US \$12/ton×70ton/day×365days/year = US \$ 306,600/year

2.2.2 Paju city

- 1) Solid waste generation rate and recycling
- 2) Recycling of Food Wastes

2.2.3 Kwangmyoung city

- Aerobic Digestion combined Food Wastes with night-soil → Compost
- All of the food wastes(68ton/day) is recycled
- Capital cost : US \$700,000

2.3 The other Cases of Food wastes Recycling

- 2.3.1 Anaerobic Digestion combined with thickened sludge
- 2.3.2 Fermented Food Wastes breed earthworm