

Fundamental Plan for Establishing a Sound Material-Cycle Society (Outline)

Image of a Sound Material-Cycle Society

Manufacturing: DfE (Design for Environment), long-life products, lease & rental

Waste management: cyclical use, appropriate disposal system

Quantitative Targets: FY2000-2010

1 Targets for Indicators Based on Material Flow Accounts

- a) Resource Productivity
- b) Cyclical Use Rate
- c) Final Disposal Amount

2 Targets for Indices Related to Efforts

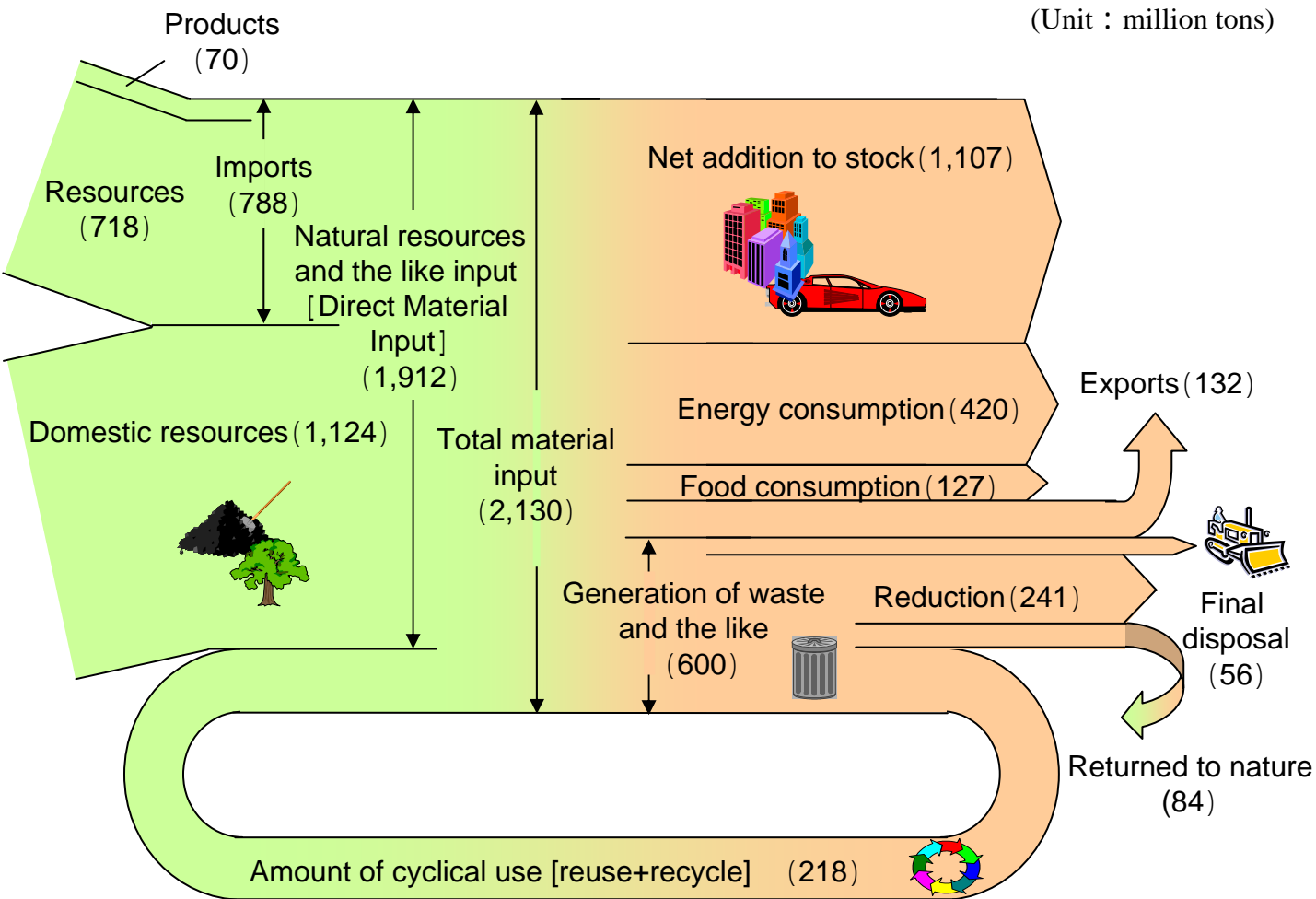
- Reducing the quantity of municipal solid waste
20% reduction of garbage discharged from households per person per day compared with FY2000
- Promoting sound material-cycle related businesses
Doubling the size of the related market and the number of related jobs compared with FY 1997

Efforts Required of Entities

- National Government
Fostering partnerships among stakeholders
- Citizens
Changing their lifestyle
- NPOs and NGOs
Promotion of their activities
- Business Organizations
Promoting the "3Rs" based on EPR (Extended Producer Responsibility)
- Local Governments
Enforcing laws and regulations; acting as coordinators

Illustration of material flow in Japan in the FY2000

(prepared by Ministry of the Environment in Japan)



The material flow accounts in FY2000 roughly shows:

- A) The total material input is about 2.1 billion tons.
- B) Of the total material input, the amount of cyclical use (reusing+recycling) is 218 million tons.
- C) The amount of final disposal (landfill) is 56 million tons.

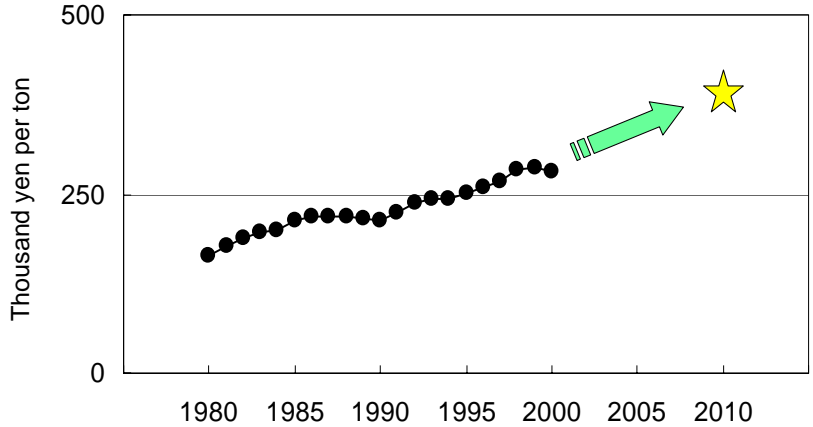
Targets for Indicators based on Material Flow Accounts

(target year: FY2010)

Resource Productivity

$$= \frac{\text{GDP}}{\text{Input of natural resources and the like (Direct Material Input)}}$$

390 thousand yen per ton
(40% improvement from FY2000)

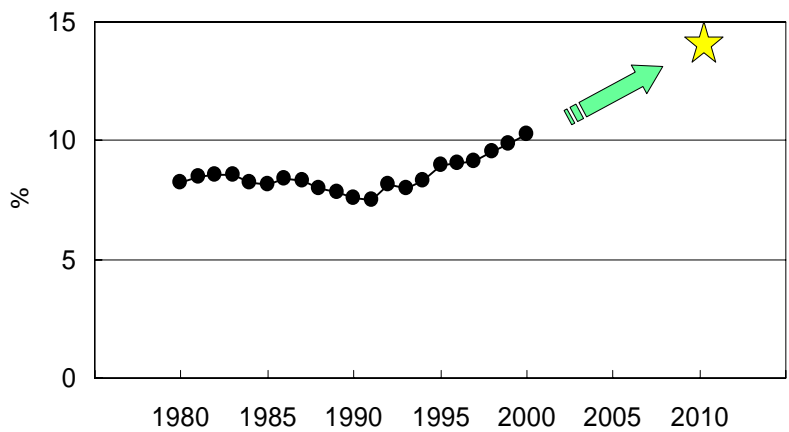


(a) Resource Productivity

Cyclical use rate

$$= \frac{\text{Amount of cyclical use (reusing + recycling)}}{\text{Amount of cyclical use + Input of natural resources and the like (Total material input)}}$$

14%
(40% improvement from FY2000)

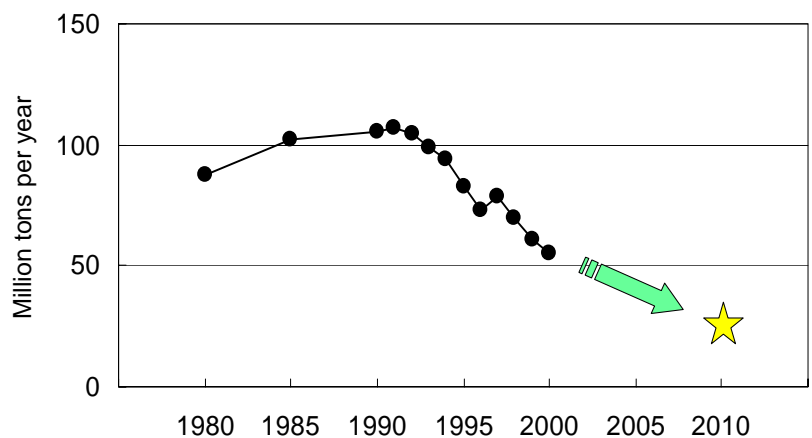


(b) Cyclical use rate

Final disposal amount

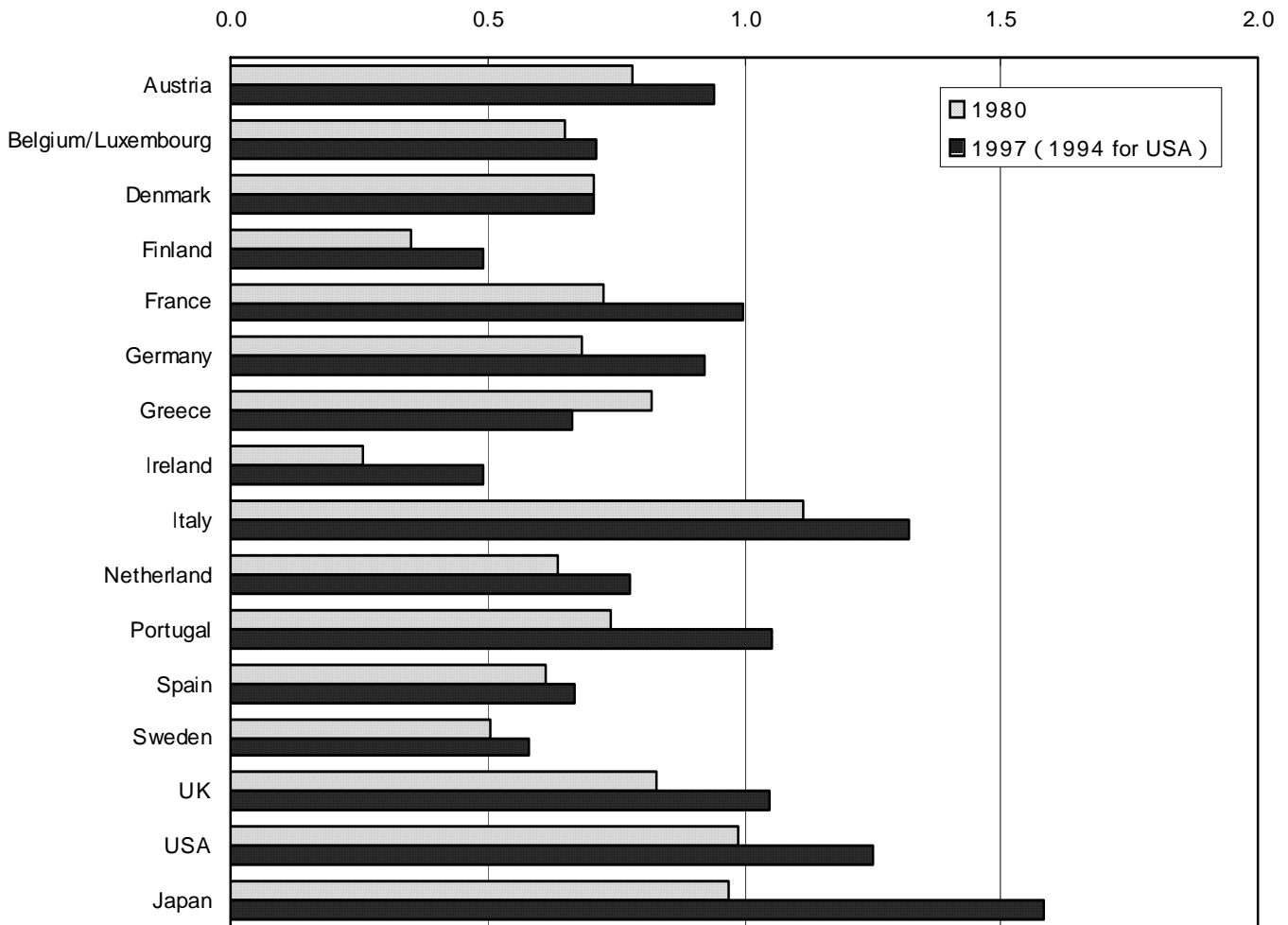
= Final disposal amount of waste (landfill)

28 million tons
(50% reduction from FY2000)



(c) Final disposal amount

International comparison of resource productivity



(US \$ 1,000/ton, based on purchasing power parity in 1995, estimated by the Ministry of the Environment using data from the OECD, World Resources Institute (United States), etc.)