Future Vision of Minamata – the Eco-Model City

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Outline of Minamata City

With the Minamata River running through the city, it is a small town rich in nature including the sea, mountains and rivers.

Definition of the Eco-Model City
Ideas for a sustainable small municipality model whose economy is in harmony with nature.

Current state of greenhouse gases

<table>
<thead>
<tr>
<th>Emissions</th>
<th>Absorption</th>
</tr>
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<tbody>
<tr>
<td>Civilian sector</td>
<td>Increased</td>
</tr>
<tr>
<td>Waste sector</td>
<td>~50% reduction</td>
</tr>
<tr>
<td>Industrial and traffic sector</td>
<td>Remained at the same level</td>
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<tr>
<td>Slightly reduced</td>
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Target reduction rate of greenhouse gases
Base year 2005

<table>
<thead>
<tr>
<th>Year</th>
<th>Reduction Rate</th>
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<tbody>
<tr>
<td>2010</td>
<td>-25%</td>
</tr>
<tr>
<td>2050</td>
<td>-50%</td>
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Four sectors requiring a reduction in greenhouse gases

A: Environmentally Friendly Living
   - Civilian sector
B: Development of environmentally friendly industries
   - Industrial sector
C: Development of a nature-oriented ecological town
   - Natural environment preservation sector
D: Development of the city for environmental learning
   - Promotion of environmental awareness

Follow-up

Promotion activities and progress management based on the Action Plan
Data management, creation of a survey table on the status of gas emissions
Cooperation among citizens, companies and local government

A: Activities for Environmentally Friendly Living

1) Promotion of the reduction, separation and recycling of household garbage.

2) Promotion of ISO throughout the City

3) Eco-Shop Certification system
   Environmental Master Certification

Promotion of the Reduction, Separation and Recycling of Household Garbage.

Current separation divided into 22 categories with the cooperation of local residents

- Recyclability: 40% → 90%
- Declaration of “Zero Waste” defining a goal
- Periodical separation and recycling of electronic waste products, food cooking oil, etc.
- Promotion for reducing use of shopping bags (Carry-Your-Own-Bag Campaign)
- Promotion for “reusing” and “reducing,” rather than recycling

Promotion of ISO throughout the City

Distribution of simplified ISOs

- ISO for Houses
- ISO for Schools
- ISO for Nursery Schools and Kindergartens

Conducting monthly “Energy-Saving Contests,” etc.
Eco-Shop Certification System
Increase the current number of certified shops from 16 to 50
Assessment by the Women's Liaison Conference on Waste Reduction

Certification for Environmental Masters
Production of safe and hygienic foods and products
Increase the current number of environmental masters from 25 to 60

B: Development of Environmentally Friendly Industries
1) Producing biomass energy using regional resources
2) Safe and reliable production in agriculture, forestry and fisheries
3) Development of a Second Eco-Industrial Housing Complex

Producing Biomass Energy Using Regional Resources
Utilization of regional resources (Citrus fruit waste, bamboo, food waste, etc.)
Production of bio-ethanol → E3 → Use of alternative fuels
• Production of useful byproducts → Commercialization → Sale

Safe and Reliable Production in Agriculture, Forestry and Fisheries
Development of a “school lunch farm” service, expansion of allotment gardens, and establishment of morning markets and direct sales depots.
Promotion of local production for local consumption → Reducing food mileage

Eco-Town
Zero Emissions
Recycling facilities for household electronic appliances
Recycling facility for used oil
Recycling facility for construction waste and asphalt
Recycling facility for food waste
PET bottle recycling facility

Development of a Secondary Eco-Industrial Housing Complex
Creation of new environmental businesses

C: Development of a nature-oriented ecological town
1) District Environment Agreement System
2) Development of a “Citizen’s Forest” and “Kelp Forest”
3) Utilizing New Energy and natural energy
District Environmental Agreement System

Kagumeishi District Environmental Agreement
- We will preserve the waterfront, rivers and streamside forests, the habitat of fireflies and dragonflies.
- We will not pollute water resources and will preserve riverside scenery.
- We will ensure the districts save clean water.
- As a rule, unless an agreement is made by Kagumeishi District, we prohibit quarrying in forests due to the risk of rock-falls, the outflow of soil and landslides. Quarrying from valleys is also prohibited to prevent the landscape from being spoiled and the outflow of soil caused by freshets.
- We will reduce the amount of household garbage and try to recycle it.
- We will reduce over-packing and try to take as little waste home as possible.
- Under the slogan “mottainai”, we will try to use things for as long as possible by repairing them.
- When we dispose of recyclable garbage, we will make sure to separate it based on city guidelines.
- We will make compost from garbage.
- We will take care not to cause disasters when we construct roads or cut down trees in the mountains.
- We will guard the districts against illegal dumping.

Development of a “Citizen’s Forest” and “Kelp Forest”

- Development of a “Citizen’s Forest” and appropriate management for it
- Cultivation of seaweed and kelp, reconstruction of kelp farms
- Revitalizing the sea with abundant marine plant life
- Maintaining and improving absorption levels of carbon dioxide

Regulations and rules for residents regarding regional environmental preservation

Current designated districts: 8 → In 2050: 15

Utilizing New Energy and Natural Energy

- Encouraging the use of New Energy in public facilities and schools
- Financial assistance system for general households
- Establishing a system to promote use of the energy in business offices

Promotion of an environmentally friendly community and living

D: Development of the City towards Environmental Learning

1) Improvement of Minamata Environmental University and Minamata Environmental Private School, etc.

2) Development of the Complete Village Living Museum

3) Development of base facilities for environmental education

Study through the experience of nature, history, life, products, etc.

- Increase in the number of designated districts → Promotion effects by visitors
- Instill confidence and improve the environmental awareness of residents in the districts
Development of Base Facilities for Environmental Learning

Aimed at improving services in the facilities, the cooperation between them and developing the surrounding area.

For the Realization of the Eco-Model City - Sustainable Living

Thank you very much.