Revitalization from the nuclear disaster

Planning & Coordination Department,
Fukushima Prefectural Government

Features of Fukushima Prefecture
Disaster Status of Fukushima Prefecture

(1) Human damage

◆ Death toll: 3,051 persons (disaster-related deaths: 1,231 fatalities)
◆ Missing persons: 5 persons (As of December 25, 2012)

(2) Housing damage

◆ Totally destroyed: 21,068 houses
◆ Half destroyed: 72,339 houses (As of December 25, 2012)

(3) Damage caused by the earthquake and tsunami

◆ Reported damage of public works facilities Approx. 316.2 billion yen
◆ Reported damage of agricultural and fishery facilities Approx. 245.3 billion yen
◆ Reported damage of educational facilities Approx. 37.9 billion yen
◆ Commerce and industry-related damage Approx. 359.7 billion yen

(Total of construction budget for the prefecture and municipalities, as of March 23, 2012)
* For the prefecture: For areas within 30 km from the Fukushima Daiichi Nuclear Power Station, damage was approximately estimated based on aerial photos
* For municipalities: Approximate damages for part of Minami Soma City and 8 municipalities in Futaba were not included.

(4) Damage caused by the nuclear accident

◆ The nuclear accident had a negative impact on all industries and fields across the prefecture, and we can hardly grasp the over-all image of the damage.
◆ Heavy spiritual burden, such as infringement of human rights.

● Primary industry
  • Self-restraint & regulation of shipment
  • Self-restraint and regulation of planting
  • Self-restraint of fishing
  • Shipment ban and price decline etc.

● Manufacturing industry
  • Refusal of deliveries
  • Demand for measuring of radiation level
  • Relocation of factories outside the prefecture etc.

● Construction industry
  • Construction materials contaminated by radiological substances (found out 10 months after the nuclear accident)
  • Demand for measuring of radiation level etc.

● Tourism industry
  • Cancellation of reservations
  • Sharp decline of tourists (Decline of school excursions to Aizu Wakamatsu City by 90%) etc.

● Others
  • Sharp decline of the prefectural population
  • Separation of family members due to evacuation
  • Fear against invisible radiation
  • Bullying to children who were evacuating from Fukushima ("Radioactivity is infectious.")
  • Refusal to accept evacuees from Fukushima
  • Difficulties in processing of contaminated soil, sewage sludge and waste.

Searching around the tsunami-hit area 1 year after the disaster (the restricted area in Uketo District, Namie Town, April, 2011)
Collapsed agricultural dam, Lake Fujinuma located in the inland of the prefecture (Ebana District, Sukagawa City)
A line graph on the actual number of guests on a year-year basis
(The data from March, 2012, was based on the comparison with the same month 2 years ago)

Toll road for tourism was free of charge
(July 2011~)

Aquamarine Soma

※【Facilities for tourists】refer to those that accommodated 50% or more guests with a sightseeing purpose.
【Source】Japan Tourism Agency, Accommodation Survey

(5) Evacuation order etc. following the nuclear accident

【March 11, 2011】
• Evacuation ordered from a 3 km radius zone around the Daiichi Nuclear Power Station.
• Residents within 10 km of the plant ordered to stay indoors.

【March 12, 2011】
• Evacuation ordered from a 10 km zone around Daiichi NPS. On the same day, evacuation ordered from 20 km of Daiichi NPS.
• Evacuation ordered from 3 km of Daini NPS. On the same day, evacuation ordered from 10 km of the plant.

【Current status】

Conceptual map of evacuation areas and restricted areas
As of November 30, 2012

Rezoning of Kawauchi Village and Tamura City
Rezoning of Minami Soma City
Rezoning of Iitate Village
Rezoning of Naraha Town
Rezoning of Okuma Town
(6) Evacuation status

【Evacuation status inside and outside the prefecture】

[Evacuees within the prefecture]
- The primary and secondary evacuation centers: 0 evacuees
- Temporary housing units: 32,438 evacuees
- Rental housing: 59,710 evacuees
- Public housing: 1,176 evacuees
Total 97,887 evacuees
(Released on Dec. 20, 2012)

[Evacuees outside the prefecture]
Total: 57,954 evacuees
(As of Dec. 6, 2012)

Citizens living away from their homes: 156 thousand citizens

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【 Plan for Revitalization in Fukushima Prefecture 】

1 Introduction
- Purpose and background of the Revitalization Plan
- Characteristics of the Revitalization Plan

II Basic concepts
- Building a safe, secure and sustainable society free from nuclear power
- Revitalization that brings together everyone who loves and cares about Fukushima
- A homeland we can all be proud of once again

III Major measures for revitalization
- Priority projects for revitalization (12 projects)
- Specific actions and major projects (7 measures, 729 projects in total)
- Measures by area (5 areas: Soma, Futaba, Iwaki, Nakadori and Aizu)

IV Making revitalization real
- Coordination with citizens, organizations, etc.
- Coordination with municipalities
- Requests to National Government
- Harnessing of revitalization-related subsidies
- Effective implementation
### III Major measures for revitalization

#### Priority projects for revitalization

<table>
<thead>
<tr>
<th>Living with peace of mind</th>
<th>Work in your hometown</th>
<th>Rebuild towns, connect people</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Ⅰ.</strong> Environmental restoration</td>
<td><strong>Ⅱ.</strong> Revival of primary industries</td>
<td><strong>Ⅲ.</strong> Building Fukushima connections</td>
</tr>
<tr>
<td><strong>Ⅱ.</strong> Assistance for rebuilding livelihoods</td>
<td><strong>Ⅲ.</strong> Revitalization of SMEs</td>
<td><strong>Ⅳ.</strong> Fukushima tourism exchange</td>
</tr>
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<td><strong>Ⅲ.</strong> Protecting the physical and mental health of citizens</td>
<td><strong>Ⅳ.</strong> Promotion of renewable energy</td>
<td><strong>Ⅴ.</strong> Town development for the revitalization of tsunami-hit areas</td>
</tr>
<tr>
<td><strong>Ⅳ.</strong> Raising and supporting our children and young people, who are our future</td>
<td><strong>Ⅴ.</strong> Medical industry cluster</td>
<td><strong>Ⅵ.</strong> Strengthening the cooperation and communication infrastructure that links Fukushima</td>
</tr>
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#### Plan for Revitalization In Fukushima Prefecture  Priority projects

- **Environment restoration project**
  - **Objective**
    - To secure a livable environment for returnees as soon as possible, by thoroughly decontaminating living areas, farmland, forest as well as facilitating contaminated waste disposal – returning our prefectural lands to a fertile and beautiful state.
    - To assure the safety and reassurance of food produced in Fukushima for distribution and consumption by enhancing the food testing measures.
  - **Scope**
    1. Decontamination
    2. Ensuring food safety
    3. Contaminated waste disposal
    4. Establishment of hubs

- **Ensuring food safety**
  - Creation of consumer-friendly food testing system
  - Contaminated waste disposal
  - Environmental creative strategy hubs
  - Information disclosure to Japan and rest of world
Transition of air radiation level in Fukushima Prefecture

Comparison of overseas standards related to radioactive substances contained in food

<table>
<thead>
<tr>
<th>Japan</th>
<th>Codex Alimentarius</th>
<th>European Union (EU)</th>
<th>America</th>
</tr>
</thead>
<tbody>
<tr>
<td>Infant food</td>
<td>50</td>
<td>Infant food 1,000</td>
<td>Infant food 400</td>
</tr>
<tr>
<td>Milk</td>
<td>50</td>
<td>Dairy product 1,000</td>
<td>1,200</td>
</tr>
<tr>
<td>General food</td>
<td>100</td>
<td>General food 1,000</td>
<td>General food 1,250</td>
</tr>
<tr>
<td>Drinking water</td>
<td>10</td>
<td>Drinking water 1,000</td>
<td></td>
</tr>
</tbody>
</table>

(Unit: Becquerel/kg)
### Citizens’ Health Protection Project

**Objective**
To achieve a healthy life expectancy that is among the longest in Japan by observing citizens’ health over the long term, redoubling existing efforts to maintain and promote physical and mental health.

**Scope**

<table>
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<th>No.</th>
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<tbody>
<tr>
<td>1</td>
<td>Citizen’s health promotion and staying healthy</td>
</tr>
<tr>
<td>2</td>
<td>Rebuilding of community health services</td>
</tr>
<tr>
<td>3</td>
<td>Investment in cutting edge medicine</td>
</tr>
<tr>
<td>4</td>
<td>Mental health care for people affected by the disaster</td>
</tr>
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</table>

A prefecture with among the longest health life expectancy figures in Japan

### Renewable Energy Promotion Project

**Objective**
To take action to build a safe, secure and sustainable society free from nuclear power through dramatic advances in renewable energy.

**Scope**

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<tr>
<td>1</td>
<td>Expansion of renewable energy including solar, wind, geothermal, hydro and biomass</td>
</tr>
<tr>
<td>2</td>
<td>Investment in R&amp;D centers to carry out development of cutting edge renewable energy technology</td>
</tr>
<tr>
<td>3</td>
<td>Clustering and fostering of renewable energy-related industries</td>
</tr>
<tr>
<td>4</td>
<td>Local production and use of renewable energy through smart communities, etc.</td>
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Plan for Revitalization In Fukushima Prefecture  Priority projects

Living with peace of mind  Work in your hometown  Rebuild towns, connect people

Medical Industry Cluster Project

Objective
To make Fukushima Japan’s leading regional cluster for health-related industries, including cutting edge radiological research, hi-tech diagnosis and treatment, and more

Scope

1. Medical and welfare device industry cluster
   - Establishing a medical device development and safety assessment hub
   - Setting up an organization to promote the medical and welfare device industry in Fukushima
   - Starting a fund to develop medical and welfare devices and care robots
   - Development and testing of global cutting edge medical devices
   - Support for market entry and business transactions of companies in the prefecture

2. Investment in a new drug research center

Employment creation

The Fukushima Declaration
at the 2012 Pledge for Fukushima Revitalization from 3/11

- We will create once again a beautiful Fukushima.
- We will build a dynamic and vibrant Fukushima.
- We will show the world and pass down to future generations Fukushima’s revitalization process.
Thank you for your attention.