About Shimokawa Town

- Population: Approx. 3,400
- Area: 644.2 km²
- Land use: 91% forest, 5.5% agricultural land
- Main industries: Forestry, forest industry, agriculture

Shimokawa Town Special Forest Products Cultivation Research Laboratory

1. Background Ichinohashi, a small village 12 km from Shimokawa Town, had a population of around 2,000 in 1960, but is now a marginal village with only about 130, mostly elderly, residents. That village of Ichinohashi is now the site of an energy self-sufficiency initiative mainly using wood biomass, a resource of the area.

2. Objectives To make use of wood biomass to cultivate special forest products, encourage local industries, and revitalize the local economy.

3. Operations (1) Research and development into technologies for the cultivation and processing of special forest products
   (2) Sales, distribution research, and opening of markets for special forest products

Shimokawa Town, Hokkaido (FutureCity)

Surrounded by a rich forest environment, Shimokawa is a town that earns a good income from the forest, learns and plays in the forest, promotes physical and mental health, and assures its residents of a spiritually enriched life amongst the trees.

Model for a Forest Future City

- Industry (Total forest industry)
  - Revolutionize forestry and forestry product industry systems to reduce material and labor costs in both industries, ensuring independent profitability by promoting the use of wood.

- Resources (Total energy self-sufficiency)
  - Become completely self-sufficient for its energy needs (heat and electricity) using small-scale, dispersed renewable energy, and even supply energy sources to neighboring local governments.

- Society (Everyone actively engaged, peace of mind)
  - Build a local community model in which residents work together to keep creating comfortable lifestyles through substantive programs, for watching out the older residents.

- Community model for dealing with super-aging society
  - Establish the town’s own R&D and incubation functions, financing and investment methods, and check systems.

- Self-sustainable and autonomous development base
  - Transferred to small mountain villages in Asia as a package.

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Kashiwa City, Chiba (FutureCity)

About Kashiwa City

- Population: 410,000
- Area: 114.74 km²
- Local specialty product: Turnips (largest production region in Japan)
- Main industries: Retail, foodservice

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Kashiwanoha International Campus Town Initiative

The public, private and academic sectors are collaborating to build a sustainable community, centered on the Kashiwanoha district.

Area Energy Management System (AEMS/ Smart Center)

- A system for the optimization of total energy usage was introduced in July 2014 in the urban area around Kashiwanoha Campus Station of the Tsukuba Express.
- This system enables energy saving and low CO₂ emissions by peak shaving at normal times, while also offering safety and reassurance to the community by supplying electricity to infrastructure such as elevators in high-rise apartments and pumps for drawing up underground water during a disaster or power outage, through the combined use of large-scale storage batteries and gas power generators.
City of Yokohama, Kanagawa
(FutureCity)

About Yokohama City

- Population: Approx. 3.73 million
- Area: 435 km²
- Main industries: Service, real estate, wholesale and retail, manufacturing

- Creation of arts and culture and growth industries, Functional business spaces
- Low-carbon and sustainable energy, water and sewage works, and waste collection service networks
- Total coordination between healthcare, nursing care, welfare and raising children.
- Living spaces blessed with natural environment (water and greenery) and geographical features.

Roles of city government, residents, business, etc.

- In cooperation with various stakeholders to promote cross-cutting initiatives for solving urban issues

Community Building to Suit Regional Characteristics

Projects that leverage the characteristics of the coastal urban area and suburban areas

<Suburban Areas>

Diverse parties such as the local community, private business, city government and university are working in coordination to solve local issues such as supporting elderly people, raising children, and rehabilitation of residential areas, etc., and to create a sustainable and attractive town planning model.

- Areas along Sotetsu Izumino Line
  (Partnerships/Memorandum: Sotetsu Holdings, Yokohama National University, Ferris University)
- Minato Mirai 21
  (Area management by diverse entities)
- Toka Ichiba
  (Partnership: Urban Renaissance Agency)
- Yokodai
  (Partnership: Urban Renaissance Agency)

Projects that leverage the characteristics of each area are in progress in 11 other areas of the city

<Coastal Urban Area>

Advanced community building through public-private partnership is underway in the Minato Mirai 21 district under the Minato Mirai 2050 Project Action Plan, and is being communicated as an environmental showcase to both Japan and abroad.

- Yokohama's Urban Strategy, Created Together with the Residents

- Data Openness
- Empathy and Trust
- Innovation

- Universities
- City Government
- Business
- NPO

Collaboration with 18 wards and 14 bureaus to pursue initiatives across entire administration

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About Toyama City

- Population: Approx. 422,000
- Area: 1,241.77 km²
- Characteristics: The city has a rich natural environment with diverse geographical features, spanning 4,000 meters in elevation, from the 1,000 m deep Toyama Bay, known as a “treasure trove of seafood,” to the Mt. Tateyama range that rises to almost 3,000 meters above sea level.

Vision for the City

Current Status and Issues of Regional Cities
Shrinking and aging population, decline in inner city areas, harsh fiscal management, etc.

Proposing one future image for a regional city that can deal with these challenges

1. Compact city planning based on public transportation
2. Creating quality, attractive lifestyles for residents
3. Industrial development leveraging local characteristics

Create a sustainable city, and thus, realize a universally appealing, vibrant community

Development of LRT Network

The development of the LRT network has led to a rethinking of a lifestyle that had become overly dependent on cars and pursued the building of a walkable community, thus, achieving a sustainable city that deals with the problems of the environment and population aging.
City of Kitakyushu, Fukuoka
(Future City)

About City of Kitakyushu

- Population: Approx. 958,015
- Number of households: 427,597
- Area: 491.95 km²
  (as of Jun.1, 2016)

Kitakyushu Future City Vision

A bustling, secure, and vigorous city where people can shine
~ Utilizing the experience from dealing with pollution and the innovation of sustainable creation ~

Gateway to Asia
Manufacturing
Rich nature

Kitakyushu Regional Energy Base Project

Showroom for diversity of energy supply sources

- Offshore wind power station
- Solar power station
- Higher Efficiency Coal-fired Power Generation Technologies (EAGLE)

Established in December 2015
Held in April 2016

G7 Kitakyushu Energy Ministerial Meeting
May 1-2, 2016

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The above JCC has been transformed to a general incorporated association ‘Mirai Kanae Institution’ (‘Realize the future’ in Japanese) in order to implement the outcomes of the discussions by strengthening its organizational capacity and improving its social trust.

First, the Joint Coordination Committee was established in order to discuss the possible improvements of coordination between medical and social services which were indispensable to respond the needs of the super-aging society. The members consisted of the stakeholders and experts from the various fields.

The Kesen County’s Vision

Kesen County Vision for the FutureCity

Establishment of a society based on local production for local consumption of energy

Promotion of people-friendly and livable society which can respond to the needs of the super-aging society

Industry promotion and social infrastructure development

Building a Model for the Advanced Collaboration in Medical and Social Services

Kesen County FutureCity Joint Coordination Committee for Medical Services, Nursing Care, Health and Social Welfare (Established in August 2014)

Mirai Kanae Institution Project

• Introduction and Operation of a local information network system for medical and social services (called ‘Mirai Kanae Net’)
• Enhancement of nursing care services in the county
• Other projects related to the super-aging society

-All data is equally shared
-All the participating institutions are reciprocally connected

Conceptual diagram of Mirai Kanae Net, launched in April 2016

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Kamaishi City, Iwate (FutureCity)

About Kamaishi City

- Population: Approx. 36,000
- Area: 440.34 km²  • 89.2% Forest
- Main Industries: Machinery Manufacturing, Fishery

Kamaishi’s FutureCity Initiative

In recognition of the vulnerability of the energy environment at times of disaster, Kamaishi’s basic plan for reconstruction and community development sets out clearly “the promotion of creative energy solutions.” Under this plan, a diverse range of energy resources are being utilized in the development of the community.

In April 2015, a public recovery housing complex was completed. This complex is equipped with facilities to ensure continuity of power supply even in emergencies, including solar hot water, solar power, and electric vehicle charging stations that can supply power to homes. In addition, Kamaishi is pursuing initiatives aimed at independent, safe and reliable energy, such as bringing together renewable energy industries and local energy management.

Kamaishi’s Version of a Smart Community

- Marine Products (Oysters)
- Hashino Blast Furnace Ruins, Site of Japan’s First Western-style Blast Furnace (World Heritage-listed)
- MIFFY CAFÉ KAMAISHI

Contact

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About Iwanuma City

- Population: Approx. 44,300
- Area: 60.45 km²
- Tourist attractions: Takekoma Inari Shrine, Millennium Hope Hills

One of Japan’s three great Inari shrines

Part of the rubble from the earthquake was recycled to build the hills. The photograph on the right is of an event to plant trees along the garden’s perimeter.

Tamauranishi Community Building - Taking Residents’ Wishes Into the Future

The first collective disaster-prevention relocation in the region affected by the Great East Japan Earthquake, carried out at the initiative of the community residents.

Solar farm built on former agricultural land that could not be rehabilitated due to subsidence, etc. caused by the Great East Japan Earthquake. One of the largest in the earthquake-affected area.

Town declared open in July 2015

Iwanuma City, Miyagi (FutureCity)
About Higashimatsushima City

- Population: Approx. 40,200
- Area: 101.86 km²
- The region has flourishing seaweed and oyster farming and agricultural industries. The “smoke art” of the Blue Impulse JASDF aerobatic jet team is a captivating attraction.

Higashimatsushima’s Overall Strategy

Higashimatsushima “Smile” Strategy

1. Create a flow of new people to Higashimatsushima
2. Create jobs in the region
3. Fulfil the young generation’s hopes for marriage, childbirth and child rearing
4. Create a region for the times and preserve a safe, reassuring lifestyle

Higashimatsushima Smart Disaster Prevention Eco-town the first in Japan to be based on local production/local consumption

Higashimatsushima City, Miyagi (FutureCity)
Minamisoma City, Fukushima (FutureCity)

About Minamisoma City

- Population: Approx. 63,200
- Area: 398.50 km²

Soma Nomaoi (Samurai Festival)
A magnificent re-enactment of a battle scene from the Warring States Period.

The Kashima Lone Pine, the region’s symbol of hope

Shimiten, a fried rice cake confectionery that blends Japanese and Western cuisine.

Minamisoma’s Vision for Promotion of Renewable Energies

Promote creation of local closed-loop mechanisms through the local production and local consumption of renewable energies.

Renewable Energy Introduction Targets

<table>
<thead>
<tr>
<th>Basic Policies of Vision</th>
<th>Renewable Energy Introduction Targets</th>
</tr>
</thead>
<tbody>
<tr>
<td>A town not dependent on nuclear power</td>
<td>Approx. 65% of FY2020 introduction target reached</td>
</tr>
<tr>
<td>A town that can withstand disasters</td>
<td>Renewable energy</td>
</tr>
<tr>
<td>Contribution to the regional environment</td>
<td>Energy (electricity) consumption</td>
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</tbody>
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Creating mechanisms for local energy closed loop

Minamisoma Solar Agripark Project

Public-private partnership project developed as a local closed loop model project, through a combination of solar power generation, plant factories, and hands-on learning.

- Solar power generation (500 kW)
- Air-dome plant factory (2 buildings)
- Power supply (100 kW)
- Surplus electricity sold
- Donating profits from electricity sales
- Hands-on learning about renewable energy / human resources development
- Free rental
- Sale

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Shinchi Town, Fukushima (FutureCity)

About Shinchi Town

- Population: Approx. 8,000
- Area: 46.53 km²
- Specialty products: garlic chives, figs, tomatoes, strawberries
- Main industries: agriculture; electricity, gas and heat supply; water

Town Planning Around the Station and Local Energy Project

An urban zone reconstruction project is under way in an area of about 24 ha around JR Shinchi Station that was washed away by the tsunami of the Great East Japan Earthquake.

Also, with the growing potential for the use of natural gas in the area because of the Soma Port LNG Project, Shinchi Town is investigating local energy business opportunities together with town planning around the station, in order to realize co-existence between the environment and industry.

With the natural gas branching off from the pipeline to be installed on the east side of the station area, the aim is for commercialization of an autonomous and distributed local energy system using a cogeneration system that supplies heat and electricity to nearby facilities, as well as a tri-generation system to supply CO₂ to agricultural production facilities.