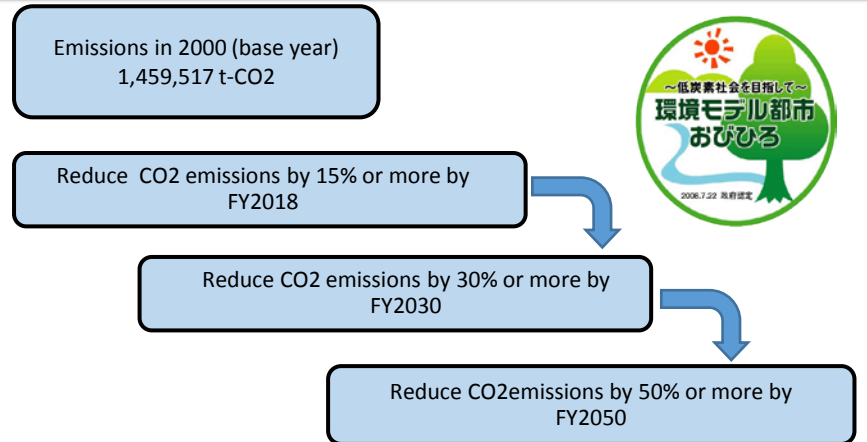


About Obihiro City

- Population: Approx. 168,000
- Area: 619.34 km²
- Blessed with abundant nature, Obihiro is a harmonious city of urban and rural communities. Obihiro is the only place in the world where draft-horse racing (Ban'ei horse racing) can be seen.



Future Vision



Ensure compatibility between the environment and economy by transforming lifestyles, making use of renewable energy, etc.

Smart Town Rokuchu

- At Smart Town Rokuchu, where an environment-conscious housing district and local community facilities have been built on the site of a former school, ground local residents are taking the initiative and pursuing activities to deal with environmental issues and the aging of society.

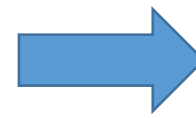


Creation of Global Warming Countermeasures and Regional Vitalization

-- Residential Land Development on Former School Playground --

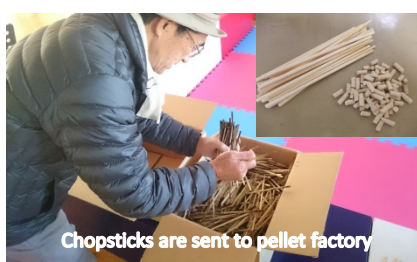


- Residential area comprised of environment-conscious houses and zero-energy houses.
- Model house exhibition of zero-energy houses.



- Reduction of CO₂ emissions
- Dissemination of Environmental Model City
- Promotion of Settlement in Obihiro

-- Activities by Local Residents --



- Collection of used disposable wooden chopsticks (Pelletizing)
- Collection of bottle caps and ring-pulls
- providing the light playground for senior citizens; the time and place of cultural exchange for local residents.



- Alternatives to fossil fuels
- Effective use of wastes
- Revitalization of civic activities

Contact

Environmental Promotion Section, Environmental City Promotion Division, Citizens Environment Department, Obihiro City, Hokkaido (Attn: Kou Tanaka)
Tel: 0155-65-4135 Fax: 0155-23-0161 E-mail: environment@city.obihoro.hokkaido.jp

About Tsukuba City

- Population: Approx. 230,000
- Area: 283.722 km²



Tsukuba Environmental Style: SMILE

A town of smiles created by our collective knowledge and technologies

Smart Community
Mobility Traffic
Innovation & Technology
Learning & Education

Tsukuba Environmental Style



Mobility Traffic Promoting the introduction of ultra-compact mobility vehicles and the use of personal mobility devices

Our aim is to realize a new style of low-carbon transport with the use of ultra-compact mobility vehicles and personal mobility devices, and to create a town where everybody can move around in safety.

Promoting the introduction of ultra-compact mobility devices

- Vehicles Introduced
NISSAN New Mobility Concept
Toyota Body COMS
- Main types of use



Security patrol trial



Shop delivery trial

Personal Mobility

- Mobility Robots Introduced
Stand-and-ride: SEGWAY, etc.
Sit-and-ride: Hitachi ROPITS, etc.
- Main types of use



Sharing /
Commuter trial



Mobility assistance trial
for the mobility-compromised



Conceptual diagram of multi-sharing station



Contact

Smart City Promotion Division, Science and Technology Promotion Department, Tsukuba City (Attn: Hirano/Komatsu)
Tel: 029-883-1111 Fax: 029-868-7645 E-mail: igp010@info.tsukuba.ibaraki.jp

About Chiyoda City

- Population: approx. 59,000
- Area: 11.66 km²



Chiyoda ward is not only a political and economic center but also has beautiful natural surroundings around the Imperial Palace.

Eco-Model City Action Plan (Action Plan as a demonstration city)

The Three Pillars of Promoting of Action Plan

- ✓ Higher level of energy-saving measures in building
- ✓ Two-dimensional measures leveraging opportunities and places for community planning
- ✓ Regional collaboration



New Building Construction Prior Consultation Scheme (valid after October 2016)

Objective: To encourage further energy-saving measures in constructing new buildings.

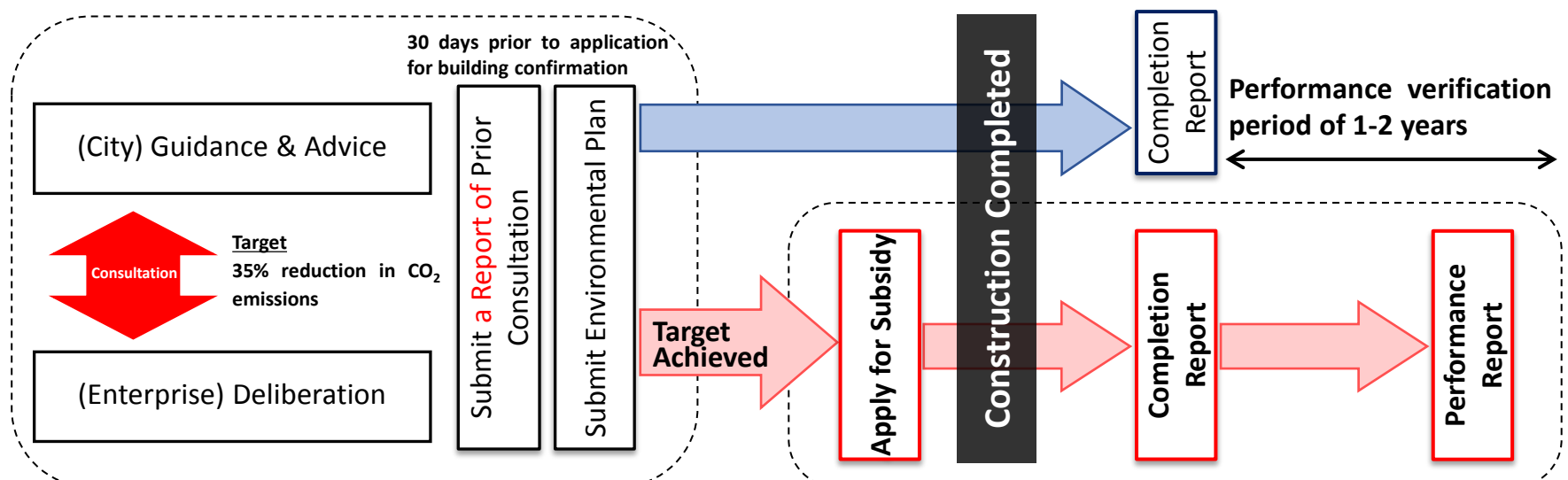
Coverage: Building projects with total floor space of 300 m² or more.

Details: The city and the enterprise discuss energy-saving measures before the plans of construction are finalized.

Target: To target 35% reduction more than the standard value established in the Building Energy Conservation Act.

Incentive payment: Subsidies; (up to 10 million yen) available for the buildings whose total floor space is more than 300 m² and less than 5,000 m². Also depend on the amount of reduction in CO₂ emissions.

Conditions: Chiyoda Eco System (Chiyoda's own EMS) initiatives.



Contact

Environmental Policies Division, Environment and Urban Development Dept. Chiyoda City (Attn: Otsuka/Ieiri)
Tel.: 03-5211-4255 Fax: 03-3264-8956 E-mail: kankyouseisaku@city.chiyoda.lg.jp

About Niigata City

- Population: Approx. 810,000
- Area: 726.45 km²
- Land use: 48% farm land
- Food self-sufficiency rate: 63%



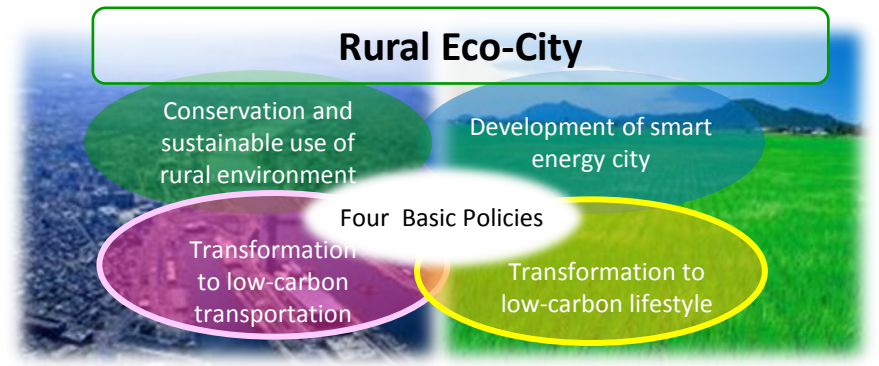
↑Kurosoke Chamame beans
Koshihikari rice, grown in Niigata



↑Bandai Bridge and tulips

Niigata Eco-Model City Action Plan

Circulate abundant value between urban and rural areas, with the aim of creating a Rural Eco-City, a city that can achieve harmonious growth.



Towards a Healthier, Longer Life – Smart Wellness City Initiative

Building a community where living here is enough to make you want to walk and keep walking

The ability to lead a healthy, active life even in old age – that alone makes a contribution to society. The development of a Smart Wellness City, based on independent “walking,” will encourage a change in residents’ behavior, even among those who are not interested in health creation, thus promoting the revitalization of the region.

Give points for health- and environment-related activities to get the uninterested sector moving



Creating health through Niigata Mass Dance Exercise



Health creation

Niigata Future Points

Initiatives for healthier and longer lives

Community planning

Enhancement of public transport

Development of walking spaces

BRT (Next-generation bus system)
Facilitation of movement around city center



Installation of rising bollards, the first on a public road anywhere in Japan



• Smart Wellness City Special Zone
(Designated Dec. 2011)

• Niigata City Ordinance for Public Transport and Planning a Community that is Easy to Move Around by Bicycle and Comfortable to Walk in
(Enacted Jul. 2012)

Contact

Environment Policy Division, Environment Department; Public Health Centers and Health Promotion Division, Health and Hygiene Department, Niigata City (Attn: Kobayashi/Sano)
Tel: 025-226-1363 Fax: 025-230-0467 E-mail: kansei@city.niigata.lg.jp

About Iida City

Population: Approx. 103,700 (as of Mar. 31, 2016)
 Area: 658.66 km² (84% forest)
 Hours of sunlight per year: 2006.6 hours (2015)
 Solar power take-up rate: 8.3% (The end of FY2015)



Specialty of Minami Shinshuu
["Ichidagaki" (dry persimmons)]



Iida is a city of the best grilled meat
restaurants in Japan
(5.31 restaurants per 10,000 population)

Regional Environmental Rights Ordinance

Form a closed loop for circulation of economic value within the region by supplying the renewable energy resources that exist therein to the area as energy.

Enhance the environmental value of the entire region by taking maximum advantage of its renewable energy resources for the area's energy supply.

Renewable energy resources are closely connected to the residents and land of the region

Define renewable energy resources as the common property of all residents, guaranteeing residents' rights to make use of those resources in community building.

Fosters residents' autonomy in the course of resident-led joint decision-making in the establishment of projects in areas such as financing, risk management, and what to do with revenue earned.

Regional Environmental Rights Ordinance

An ordinance concerning sustainable community building through the introduction of Iida's renewable energy

Residents engage proactively in locally-led renewable energy businesses that create economic and environmental value.

Led by residents, circulate energy and wealth within the region to promote local revitalization from the viewpoint of **energy autonomy**.

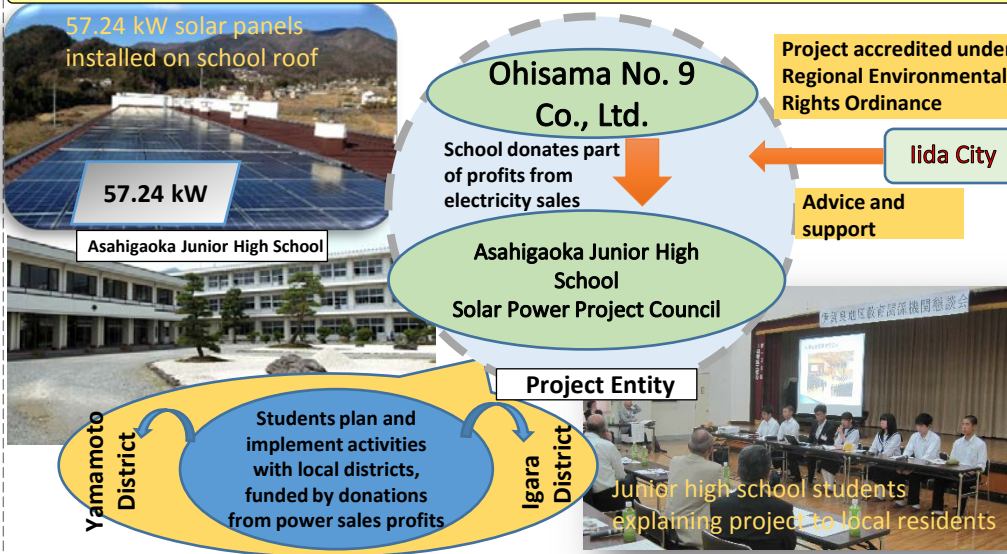
Iida City will extend support to resident-led renewable energy projects based on the Regional Environmental Rights Ordinance, to propel its Eco-Model City policies forward.

Iida's Eco-Model City Initiatives

(1) Regional Environmental Rights Ordinance Case Study Iida Municipal Asahigaoka Junior High School Solar Power Equipment Installation Project

Accredited Project No. 8

School Solar Power Generation Project Proposed by Junior High School Student Council



Public-Benefit Dividend Project

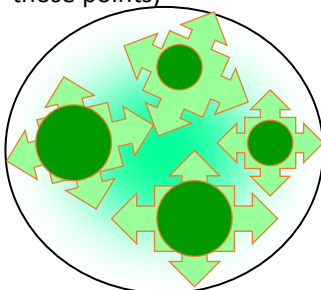
- School's disaster-preparedness function as designated evacuation center is enhanced by the installation of solar panels with storage batteries.
- Installation of a solar panel for environmental teaching purposes next to the science classrooms contributes to students' environmental education.
- Donations used for environmental learning and regional activities, led by students and in collaboration with the two districts.



(2) Region-Wide Environmental ISO Study Group

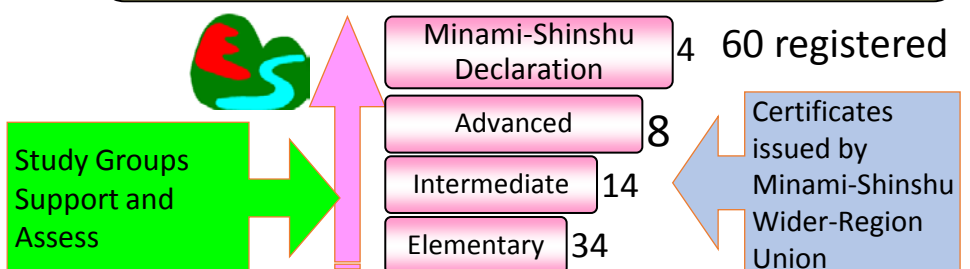
Environmental management system initiatives in the Minami-Shinshu region, with Iida City at its center, are being developed not by governments, but by study groups led by private-sector companies.

Region-wide movement to expand horizons from businesses (single, unconnected points) to encompass the whole region (plane connecting those points)



Original EMS of the Region [Minami-Shinshuu EMS21]
Basically, ISO14000 1 is at four (4) levels.

The administrative assembly [Minami Shinshuu Inter-jurisdiction] is responsible of issuing registration card for study group support and review.

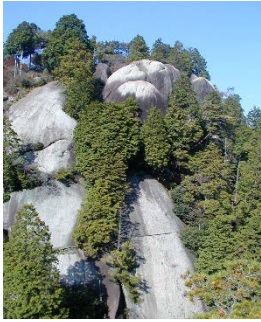


Contact

Regional Energy Planning, Eco-Model City Promotion Division, Citizens Collaborative Environment Department, Iida City (Attn: Ogawa) Tel.: 0265-22-4511 (ext. 5473) Fax: 0265-22-4673 E-mail: sakugen_co2@city.iida.lg.jp

About Mitake Town

- Population: Approx. 19,000
- Area: 56.61 km² (60% forest)
- Attraction: A town rich in nature that flourished as a post town on the Nakasendo Trail



▲ Scenic beauty spot: Giant boulders of Oniwa Park



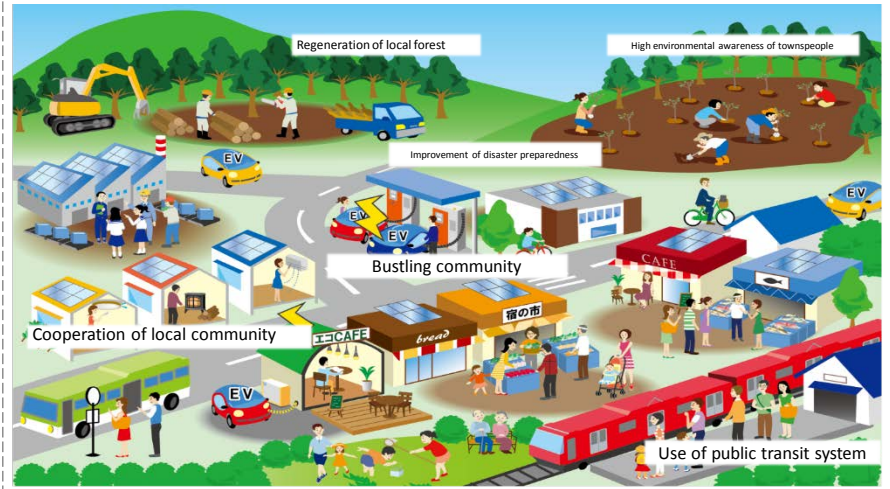
▲ Bamboo lilies in bloom



▲ Mitake Hanazushi, a new hometown cuisine

Low-Carbon Community Mitake

Eco-Model City Vision for Creating Mitake, a Low-Carbon Community Leveraging Local Resources



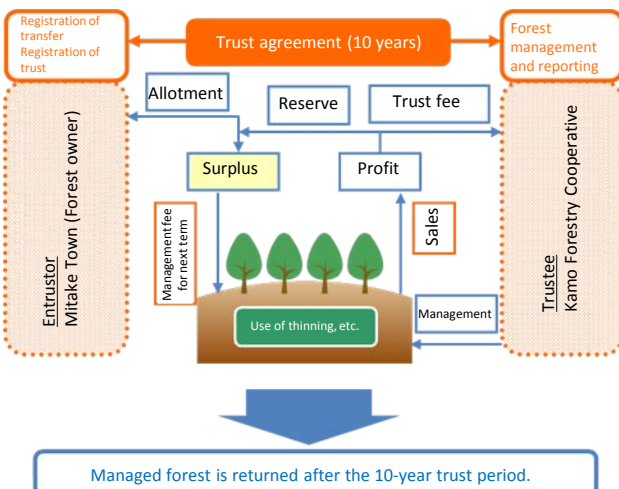
Involving the townspeople in building a low-carbon community



To achieve Mitake Town's Eco-Model City vision, the towns' residents, businesses and government are coordinating and cooperating to deploy the various strategies.



▲ Forest development by the entrusted operator ▲



Contact

Eco-Model City Promotion Office, General Affairs Department, Mitake Town Office, Kani District, Gifu Prefecture (Attn: Hayakawa)
Tel: 0574-67-2111 Fax: 0574-67-1999 E-mail: eco@town.mitake.lg.jp

About Toyota City

- Population: Approx. 423,000
- Area: 918.32 km² (70% of city area is forest)
- Main industries: Automotive, agriculture
- Value of manufactured goods shipped, etc.: ¥12.7

trillion (2013)
Korankei Valley, a famous spot for autumn



Jumbo Nashi Pear
(Atago Nashi)

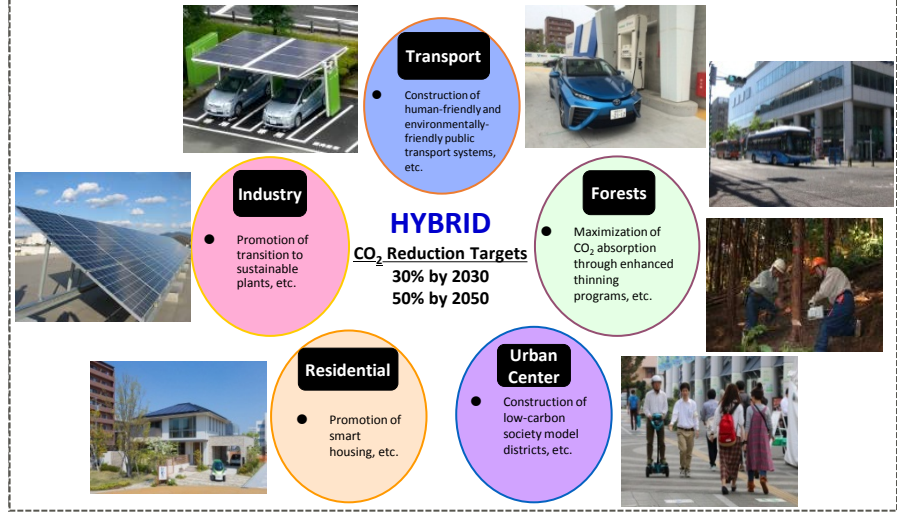


Motor vehicles
(FCV, etc.)



2nd Eco-Model City Action Plan

Hybrid City Toyota Plan



Aim to be a town where people can go out and be active forever



Ha:mo station in Grenoble, France

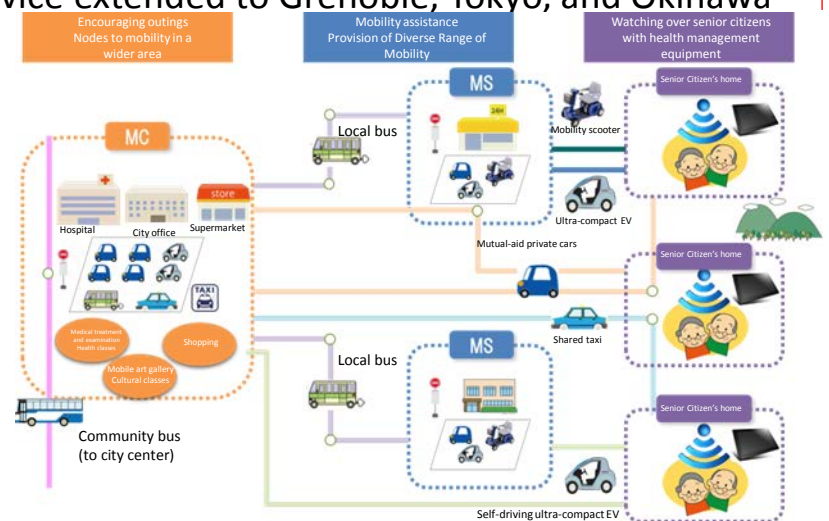
Ultra-compact EV sharing system, Ha:mo

- Service launched in October 2012, first in Japan
- 49 stations in the City, approximately 2,500 members
- Supplements movement between public transport systems and destinations
- Service extended to Grenoble, Tokyo, and Okinawa

Innovation Hub for a "Mobility Society"

– Leads to an Active and Joyful Life for Elderly–

- Social experiment underway, led by Nagoya University and Toyota Motors (COI Project)
- The project depicted at right combines advice about optimal modes of transport, health vigilance, and provision of information to encourage outings, to support active lifestyles



Project for Construction of Mobility-Based Model Communities in Hilly and Mountainous Areas

About Kyoto City

Population: Approx. 1,470,000 • Area: 827.9 km²



Kyoto, a low-carbon city co-existing with the environment

GHG Reduction Targets

2020: 25% reduction (compared to 1990)

2030: 40% reduction (compared to 1990)

Kyoto's Six Visions of a society for the Future

- Vision of a society 1: An enjoyable walking city that gives priority to people and public transport
- Vision of a society 2: Forest regeneration and giving important value to "culture of wood" city
- Vision of a society 3: City of energy creation and Community recycling
- Vision of a society 4: Environmentally-friendly lifestyles
- Vision of a society 5: Environmentally-friendly economic activities
- Vision of a society 6: Garbage reduction

Pedestrian-friendly City, Kyoto traffic Strategy, where people and public transport are the priorities

Through strategies to restrict vehicle traffic and other measures, we aim to transform the city and lifestyle from an emphasis on motor vehicles to a focus on "walking," and continue to be a city that brings bustling activity to the community.

A range of projects are underway, including widening the sidewalks on Shijo Dori Street, promoting Park & Ride facilities to limit the number of vehicles flowing into heavy traffic spots, encouraging the use of public transport, and promoting mobility management aimed at lifestyle transformation.

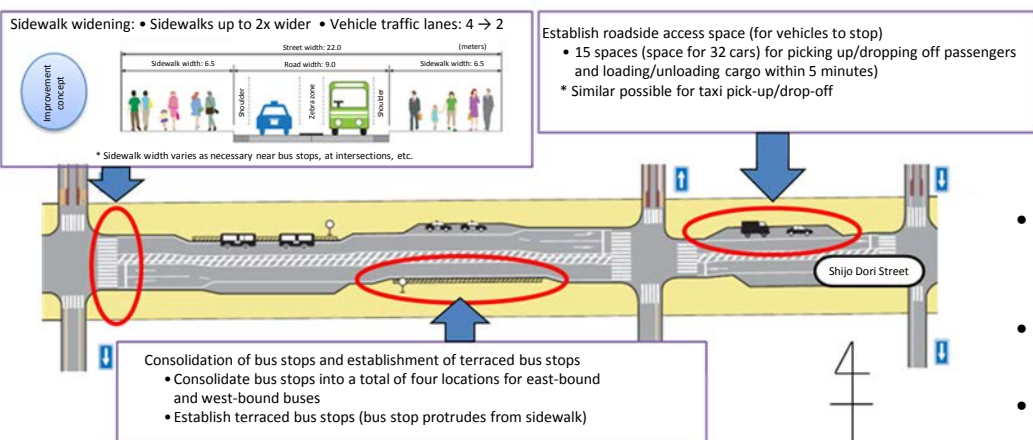
Widening of Shijo Dori Street Sidewalks

The first initiative in Japan to make the main street of a city with a population of 1 million into a street where people and public transport have priority

- Redistribution of the existing street space has ensured a pedestrian space that is comfortable to walk in and that has improved the environment for people waiting for buses.
- Shijo Dori Street has been positioned as a transport terminal, with improvements made to make it easier for city buses to drive down the street and to improve the experience for bus passengers. Making public transport more convenient has improved access for traveling into the city.



Overview of Shijo Dori Street Widening Project



Recipient of various academic society awards

- International Assn. of Traffic and Safety Sciences (Achievements Division)
- The City Planning Institute of Japan (Ishikawa Encouragement Award)
- Japan Society of Civil Engineers (Engineering Award)



About Sakai City

- Population: Approx. 840,000
 - Area: 149.82 km²
- (Major attractions, etc.)

Nintoku-tenno-ryo Kofun, one of the world's largest ancient burial mounds.

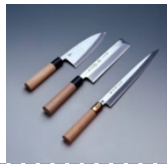


Sakai Risho no Mori, a museum



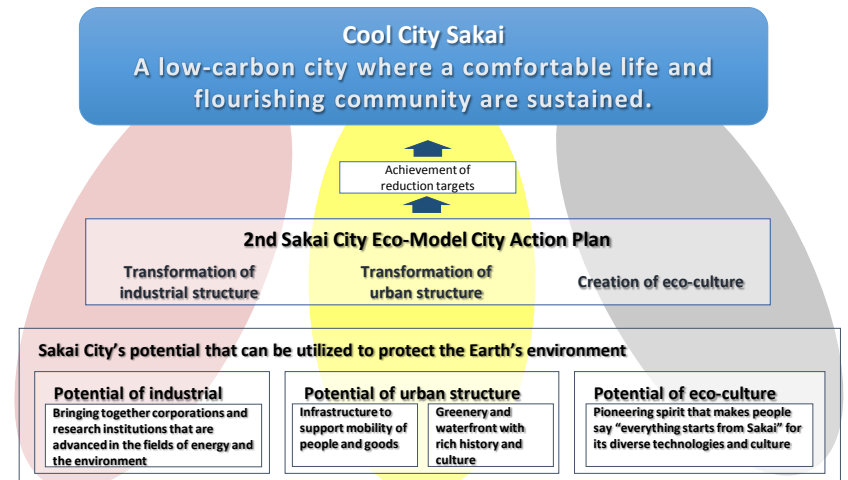
introducing Sen no Rikyu and Yosano Akiko.

Sakai Knives, prized by professional chefs for their outstanding sharpness.



Eco-Model City Action Plan

Pursue initiatives from three perspectives, to realize "Cool City Sakai," a city of continued sustainable growth.



Harumidai Eco-Model Town Project

Making effective use of public property, namely the site of a former elementary school, an eco-model town has been developed with excellent environmental features, such as net-zero energy houses (ZEH). (Sales commenced in 2013.)

■ Towards Low-Carbon Community Building

- Installation of equipment capable of achieving ZEH rate of 100%

All houses are equipped with a solar power generation system, lithium-ion battery system, high-efficiency water heater or domestic-use fuel cell, HEMS, LED lighting, and an exterior power outlet for an electric vehicle.

- All houses awarded S Rank in CASBEE Sakai assessment.



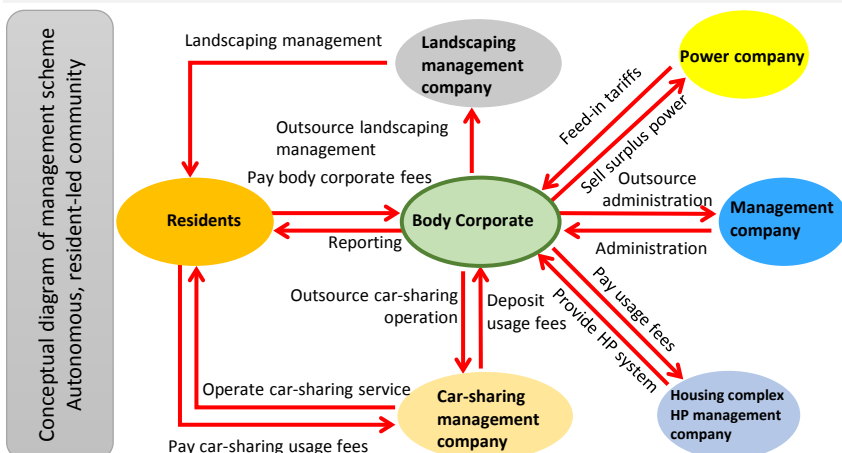
■ Disaster-resistant community

- Establishment of housing complex body corporate

Autonomous management of the community (housing complex) led by the residents themselves will sustain a favorable living environment and raise the value of the community.

- Disaster-preparedness functions of community hall

The community hall is equipped with a solar power generation system, large storage battery system, V2H system, and other facilities. Domestic water is ensured with a large rainwater storage tank, and emergency food supplies are stored in the hall. Benches that can be converted to use as cooking stoves or toilets have also been installed.



EV car sharing at community hall



Solar power equipment (17.1 kW) over regulating reservoir (common area)

Contact

Environmental Policy Division, Environmental City Promotion Department, Environment Bureau, Sakai City (Attn: Ida/Sumihara)
Tel: 072-228-3982 Fax: 072-228-7063 E-mail: kansei@city.sakai.lg.jp

About Amagasaki City

•Population: Approx. 452,000

•Area: 50.72 km²

A great strength of Amagasaki City is a integration of industrial and urban functions in the compact area. A variety of charms in the compact-sized city will entertain visitors.

Night view of the waterfront factory zone

Large companies and small and medium-sized enterprises with state-of-the-art technologies are located in the waterfront industrial area.



Cosmos Garden

Natural forests and rural landscape can be seen in the northern area of the city.



Shopping arcade near station

Bustling shopping arcades have been formed near railway stations.



ECO Future City, Amagasaki

Although we have experienced severe pollution in the past, we have gotten it over through the cooperative efforts of industry, residents and the government. Environmental awareness and bonds among residents, industry, academia and the government have been nurtured in the process of tackling the problems. Our aim is to realize "Eco Future City" with this backdrop.

Residents

- Amagasaki 21st Century Forest Preservation Conference
- Forest of Nature and Culture Association
- ••Other various citizens' groups

Academia, etc.

- Osaka University
- University of Hyogo
- College of Industrial Technology
- Vocational Eco College
- Elementary, junior high and high schools



Amagasaki Open College of the Environment

Government

- Amagasaki Green New Deal Promotion Conference

Declaration of ECO Future City Amagasaki

Industry

- Amagasaki Chamber of Commerce and Industry
- Amagasaki Employers' Association
- Amagasaki Industrial Association
- Amagasaki Institute of Regional and Industrial Advancement
- Local financial institutions, etc.

Coordination towards ECO Future City Amagasaki

Amagasaki Smart Community Promotion Project

A community that not only implements a local energy management system initiatives employing HEMS in certain size or so housing developments and but also builds the mechanism to stimulate the local economy utilizing the system is certified as "**Amagasaki Smart Communities**"

The certified area can receive financial support from the government as well.



Project Certified in FY2015

Initiative for sustainable energy conservation and regional economic stimulus through the introduction of "ZUTTO ECO MYPO"

1. Visualization of energy consumption in the JR Tsukaguchi Station area (approx. 8.4 ha)

The Town Energy Management System has been developed to measure energy consumption in the whole area around the station.

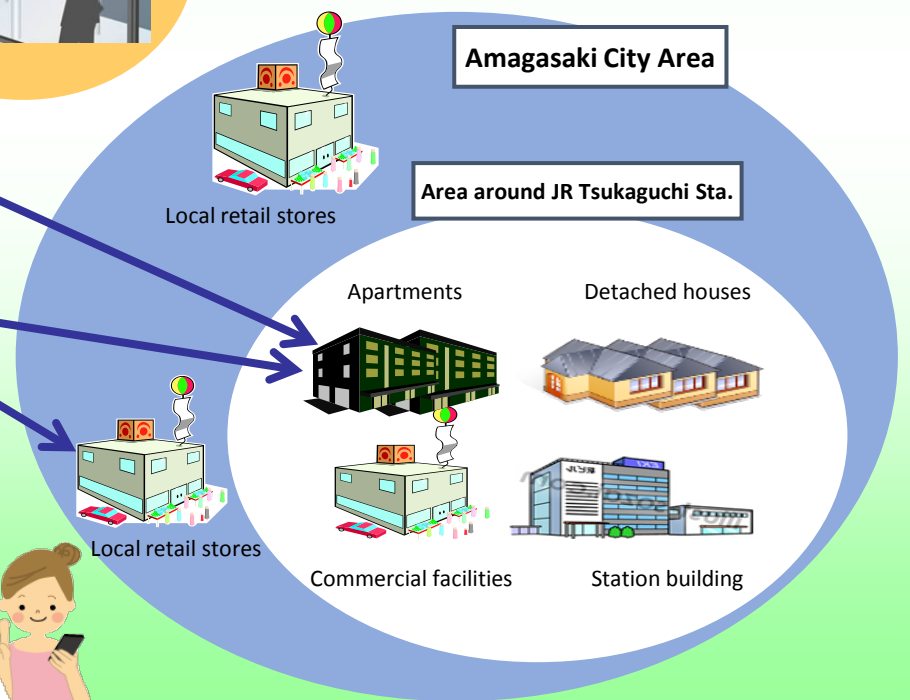
Energy consumption in the whole area is displayed on the digital signage system in real time.



2. On demand response linked to the community currency

A scheme connected with "ZUTTO ECO MYPO", the Amagasaki region's community currency point system, has been established.

Residents going out to local retail stores, etc., in response to energy-saving requests issued during peak hours of electric demand in summer and winter receive double points.



About Kobe

- Population: Approx. 1,538,000
- Area: 557.02 km²
- Main industries: Manufacturing, service industry, fashion, etc.



Kobe's Environmental Master Plan

By promoting policies based on these four key principles, we hope to ensure Kobe will long continue to be a town blessed with greenery and sunshine.

Four Key Principles

1. A society with low carbon dioxide emissions
2. A society that uses resources effectively and minimizes waste
3. A society with a richly diverse ecosystem
4. A society in which people are safe and comfortable and which offers peace of mind

Promotion of the Hydrogen Smart City Kobe Initiative

In collaboration with local businesses, Kobe is actively pursuing pioneering initiatives for the future, such as the construction of a hydrogen supply chain and the development of systems that are powered by hydrogen energy.

Construction of a Hydrogen Supply Chain



We aim to build a system for the supply of hydrogen, in which hydrogen would be produced, liquefied, and loaded onto ships overseas and shipped to Japan, where it would be unloaded and supplied to users.

Development of Hydrogen-Powered Systems



We are working to develop hydrogen- and natural gas-fueled technology for a gas-turbine power generation system and systems for supplying public facilities with electricity and heat.

Promoting the adoption of domestic fuel cell systems

Developing hydrogen stations

Encouraging local small and medium enterprises to enter the market

Contact

Environmentally Friendly City Division, Environmental Policy Department, Kobe City Government (Mr. Yagi / Ms. Kitazono)
Tel: 078-322-6427 Fax: 078-322-0328 E-mail: kankyokoken@office.city.kobe.lg.jp

About Nishiawakura Village

- Population: Approx. 1,500
- Area: 57.93 km²
- Land use: 95% forest, 5% agricultural/residential land and other
- Major industries: Forestry, tourism

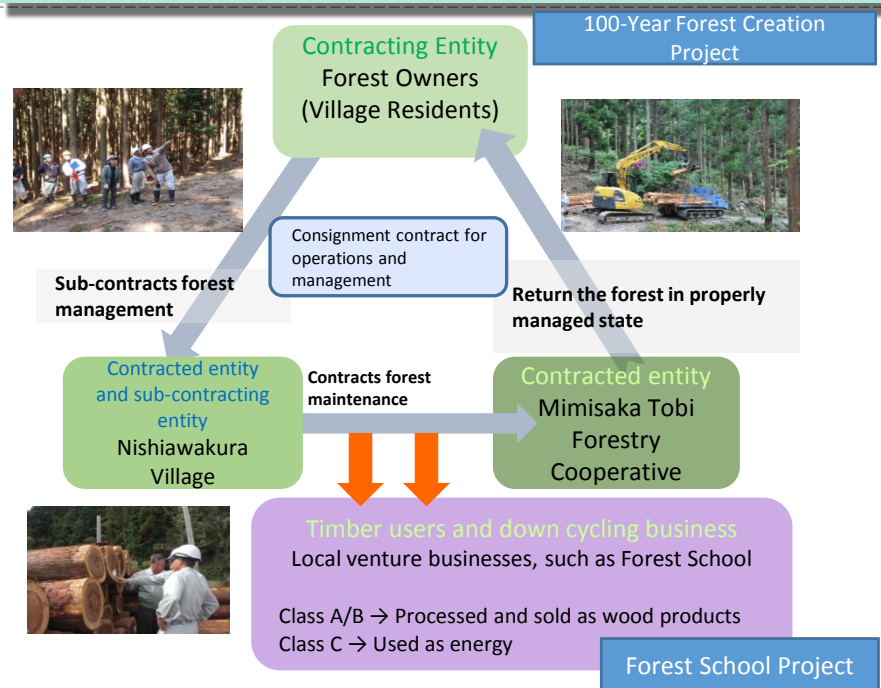
Winter

Summer

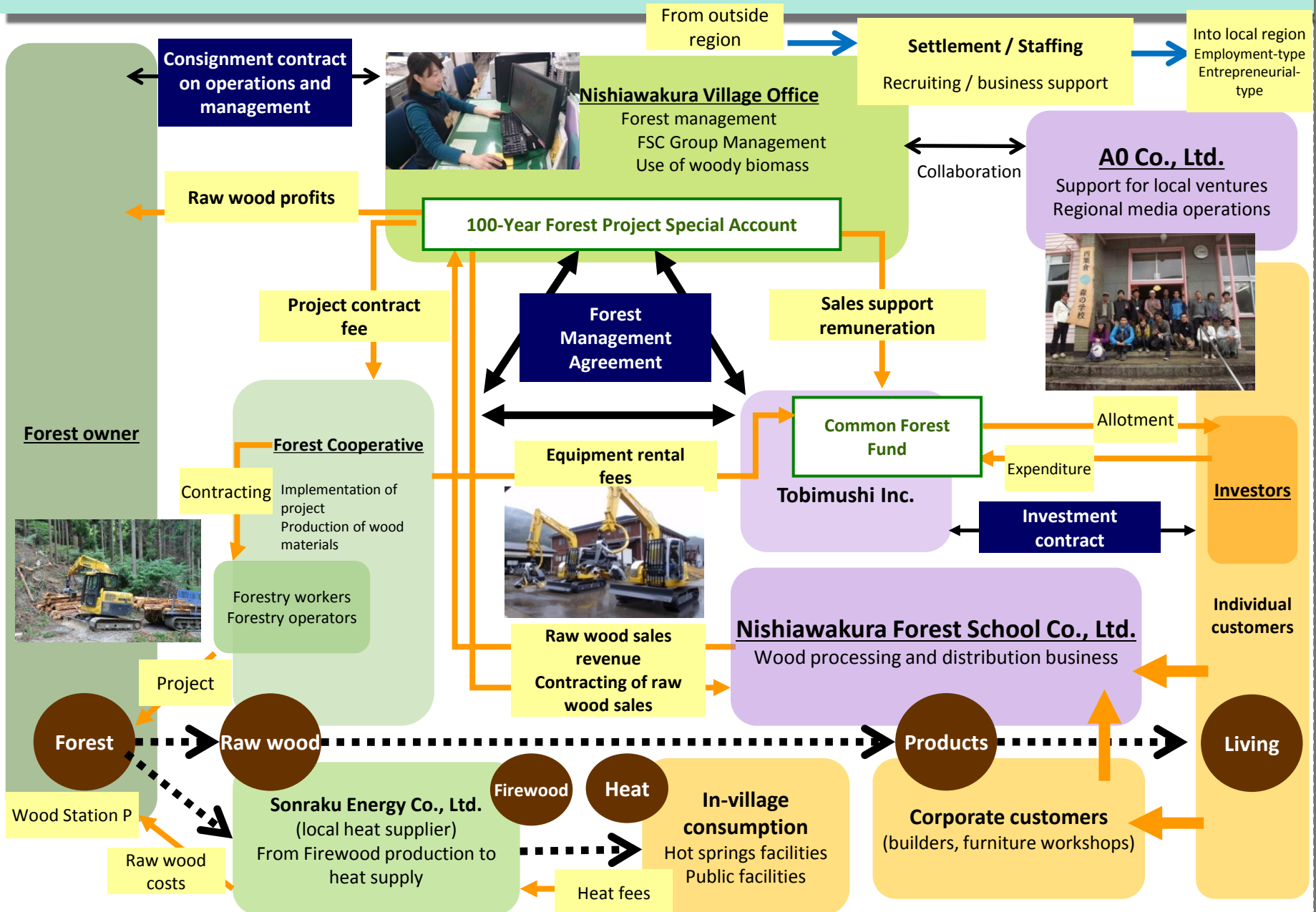
100-Year Forest



100-Year Forest Project (Overview)



100-Year Forest Project Flow of wood and division of roles



Contact

Eco-Model City Promotions, Industry and Tourism Division, Nishiawakura Village Office (Attn: Keizo Shirahata)
Tel: 0868-79-2111 Fax: 0868-79-2125 E-mail: k-shirahata@vill.nishiawakura.lg.jp

About Matsuyama City

- Population: Approx. 515,000
- Area: 429.37 km²
- Main tourist destinations: Dōgo Onsen, Matsuyama Castle
- Local specialties: Beni Madonna oranges, Setoka mandarins



Dōgo Onsen



Matsuyama Castle



Beni Madonna

Matsuyama, a Proud Eco-Model City

Promotion of Matsuyama Sunshine Project

Promotion of Smart Community

Promotion of Healthy City Where People Enjoy Walking

Promotion of Local Recycling System

➔ Build a sustainable, low-carbon community

Matsuyama Smart City Promotion Project

As the first step in promoting the Smart City, we are conducting a Smart City Promotion Project in the islands area (Nakajima District) of the city.

2014

Conducting feasibility study

Concept



2015



From 2016



BEMS

Remote monitoring of solar power generation



Efficient use of energy
Enhancement of environmental education
Revitalization of the region through increase in visiting population

Contact

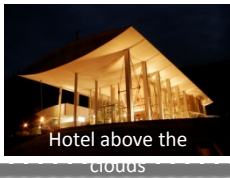
Eco-Model City Team, Eco-Model City Promotion Division, Environment Department, Matsuyama City Office (Attn: Izumi/Onishi)
Tel: 089-948-6960 Fax: 089-934-1861
E-mail: kankyou-m@city.matsuyama.ehime.jp

About Yusuhara Town

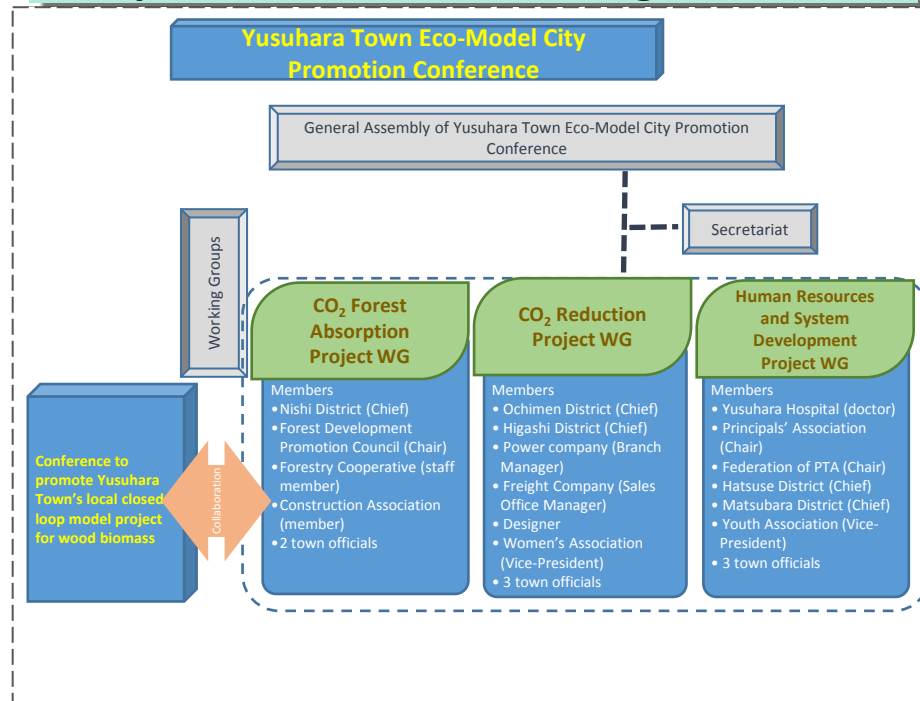
- Population: Approx. 3,650
- Area: 236.45 km²

Located in northwest Kochi Prefecture, on the border with Ehime Prefecture. Backed by the Shikoku Karst plateau, with the clear waters of the Shimanto River flowing through the town at its foot.

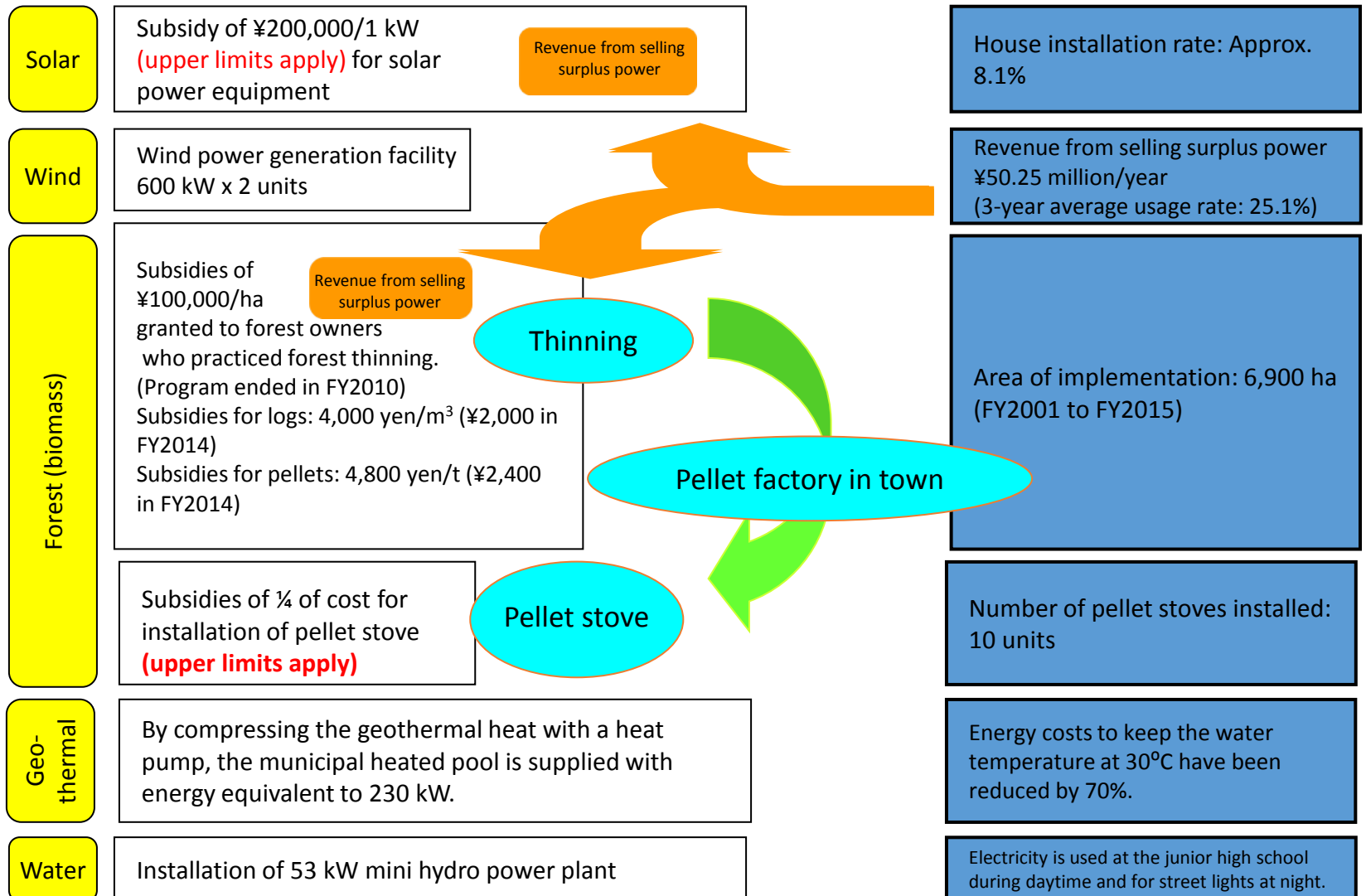
- Main industries: Forestry, construction industry



Roles of government, citizens, corporations and other organizations



Best mix of renewable energy sources and two kinds of closed loop



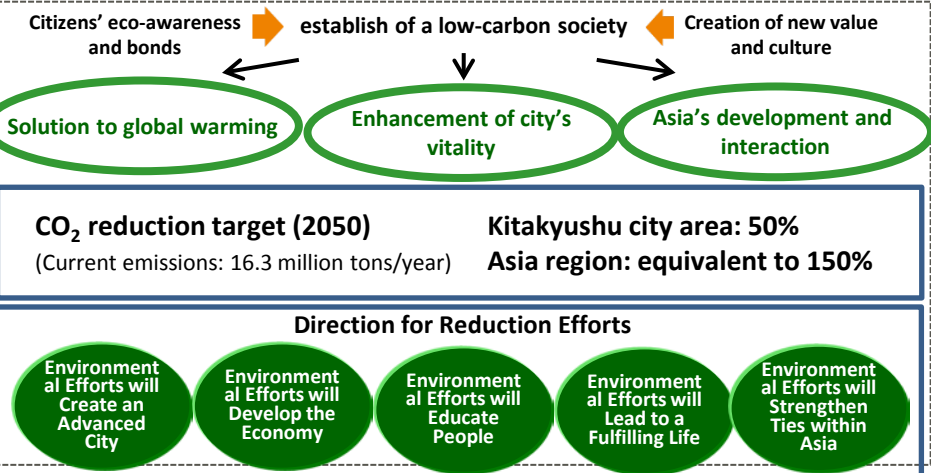
Contact

Eco-Model City Promotion Office, Environment Maintenance Division, Yusuhara Town Office (Attn: Kenzo Nakagoshi/Yuichiro Togame)
Tel : 0889-65-1251 Fax: 0889-65-0221 E-mail: 70-yusuhara@town.yusuhara.kochi.jp

Overview of the city

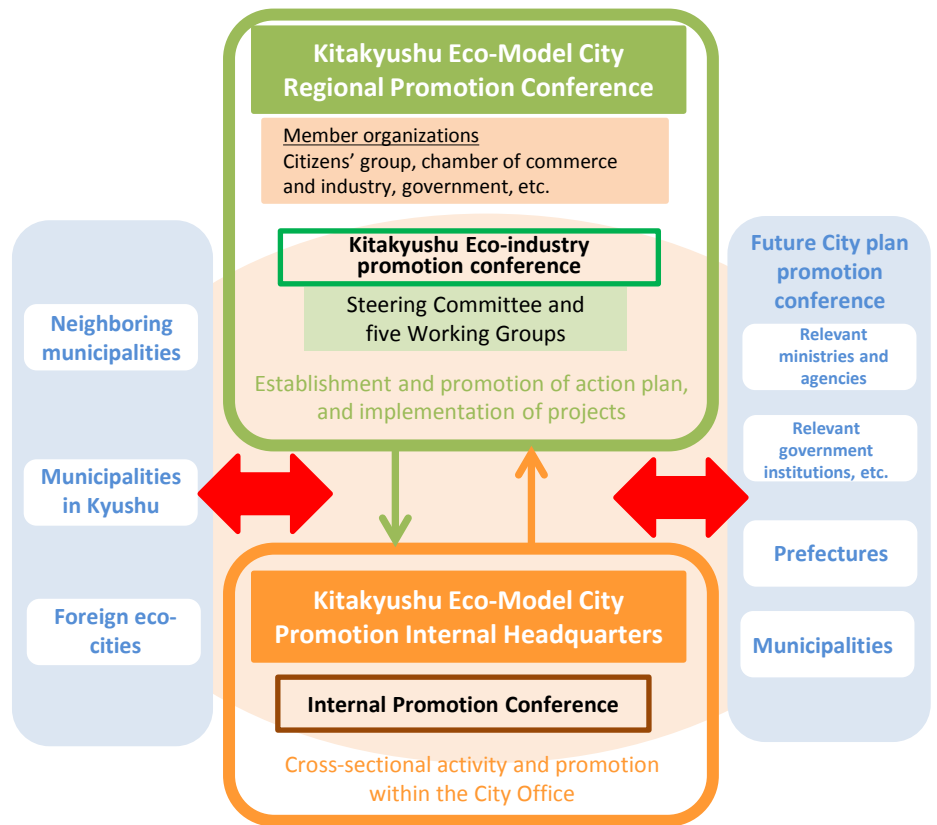
- Population: 959,000 (as of Aug. 1, 2015)
- Area: 491.95 km² (as of Oct. 1, 2014)
- Land use: forest (42.7%), residential land (14.0%), industrial land (7.0%), agricultural land (6.0%), commercial land (3.2%) (as of March, 2011)
- Main industries: Manufacturing industry, core manufacturing industry, automotive industry, electric components and devices industry, environment and energy industry, etc.

Vision



Roles of government, citizens, corporations and other organizations

Promotion system



Overview of characteristic efforts

Kitakyushu Regional Energy Base Project

Forming an Energy Base for Stable and Cost-efficient Energy Supply through Low-Carbon Strategies

- Creates a city in which the lives of local residents are stable and businesses can conduct activities and achieve targets
- Forms a city that location of choice for many companies
- Builds a city that contributes to the success of both Kitakyushu and the broader region of Kyushu

Kitakyushu aspires to be a base that supports regional growth and discovers solutions to environmental/energy problems.



Kitakyushu Asian Center for Low Carbon Society

The collective environmental technologies of the City of Kitakyushu and Japan are used to promote a "Low-Carbon Asia"

Asian Center for Low Carbon Society Established in June 2010

The Center is jointly operated by the city of Kitakyushu, the Environmental Cooperation Center of the Kitakyushu International Techno-cooperative Association (KITA), and the Kitakyushu Urban Center of the Institute for Global Environmental Strategies (IGES). It aims to reduce CO₂ emissions by 150% throughout Asia by 2050 (compared to 2005 levels in Kitakyushu).



Contact

Attn: Oda and Tsutsumi, Global Warming Response Division, Environment Bureau, City of Kitakyushu
Tel.: 093-582-2286 Fax: 093-582-2196 E-mail: kan-ondanka@city.kitakyushu.lg.jp

About Minamata City

•Population: Approx. 25,600

•Area: 163.29 km²

Attractions include the rias coastline of Yunoko Beach overlooking the Shiranui Sea, hot spring towns brimming with nostalgic history, and state-of-the-art environmentally-themed facilities



Salad onions



Minamata Tea



Yunotsuru Hot Spring

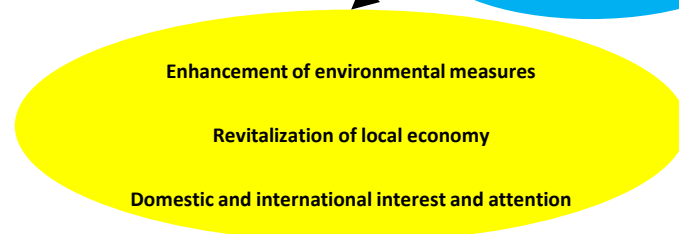
Minamata Eco-Model City Vision

Initiatives to Date

- Garbage separation
- Eco-Town
- Conservation of natural environment

Residents show high level of environmental awareness and action

Eco-Model City Initiatives



Raise residents' awareness
Cultivate human resources

Develop eco-industry
Create new jobs

Improve residents' lives

Revitalization of local economy

Aiming for a sustainable society that achieves harmony between environment and economy

Low-Carbon Initiatives Aimed at Domestic Sector

Minamata City Comprehensive Program for Low-Carbon Subsidies in the Domestic Sector

This is a scheme for subsidizing the construction of houses that pursue a low carbon footprint in the home through reductions in greenhouse gas emissions. Subsidies are provided for use of local materials and purchases of environmentally-conscious home equipment. The subsidy (with the exception of that for use of local materials) is doubled for local businesses, assisting in the promotion of local companies.

(Examples)

☆ Use of local materials... ¥7,500 per square meter of building floor space (up to ¥1.5 million)

☆ Solar power generation system... ¥20,000 per kiloWatt maximum output (up to ¥100,000)

* There are 7 additional types of equipment eligible for subsidies.

Residents taking advantage of this scheme register with the Minamata Eco Diary, a household account book for the environment, to record their domestic utility costs.

This engages them in Minamata City's domestic version of the Environmental ISO, and gives them the opportunity to review their energy consumption in their daily lives.



About Miyakojima City



• Population: Approx. 55,000

• Area: 205 km²



City mascot: Miiya

• Main industries: Agriculture, forestry and fisheries, tourism

• Main products: sugar cane, mangoes



Wind power (Karimata)

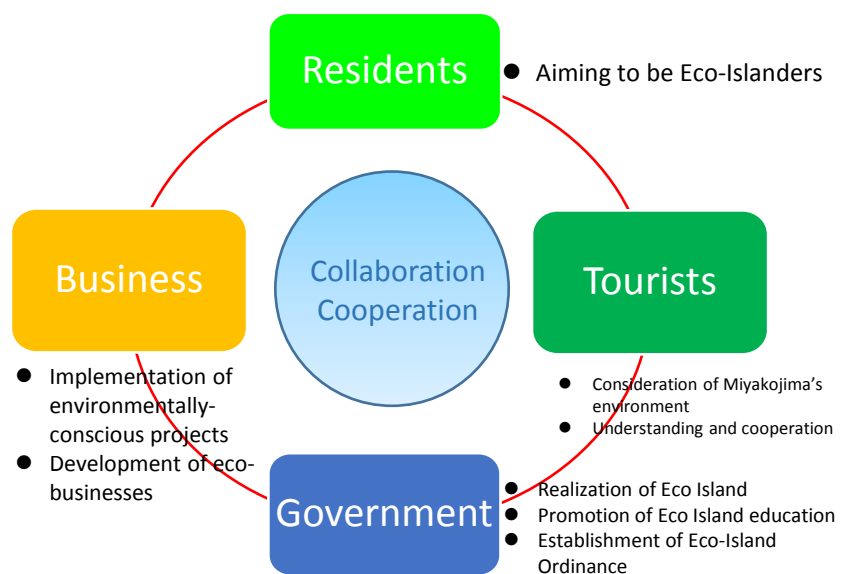


Mango



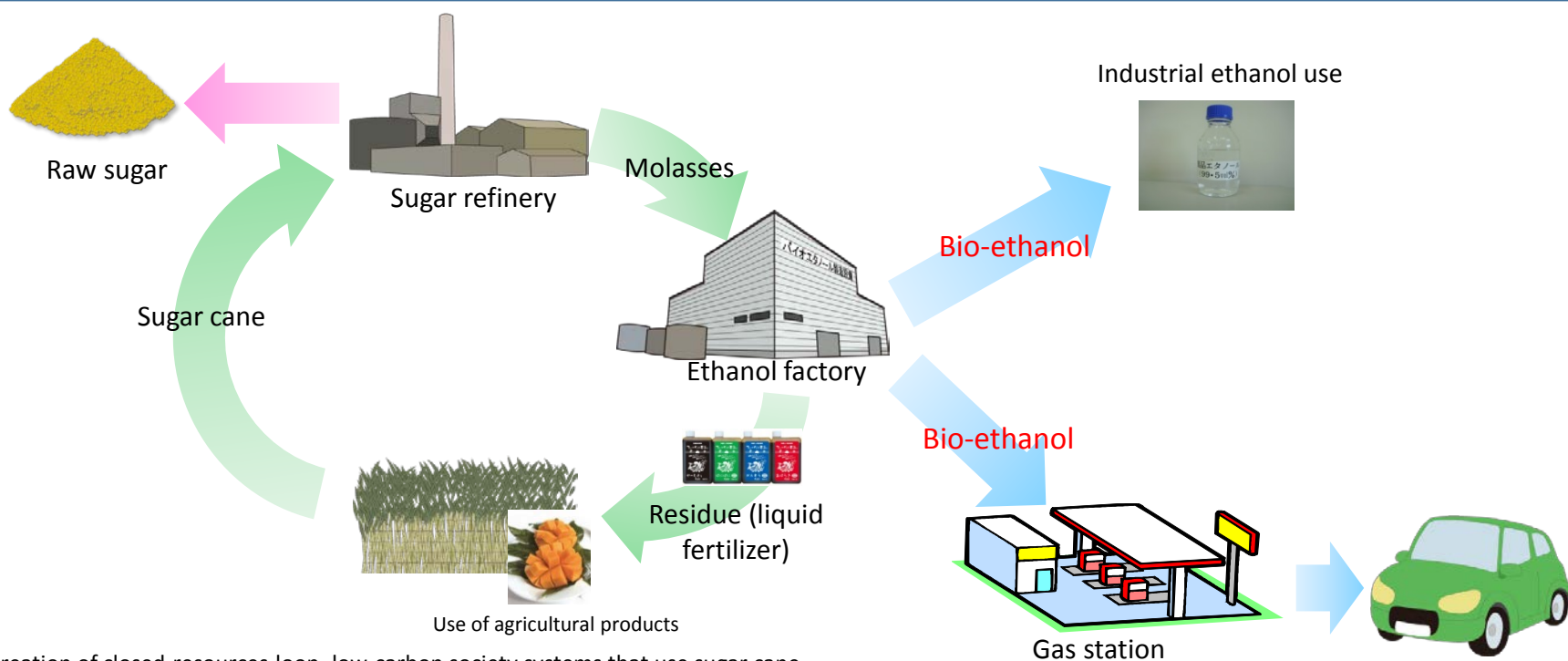
Sugar cane

Eco Island Promotion Ordinance



Miyakojima Bioethanol Project

Building a closed-loop society through the downcycling of sugar cane, Miyakojima's primary crop, such as using bioethanol made from the residue created in the process of sugar refining, and returning to the soil the liquid residue from the ethanol production process.



○ Creation of closed-resources-loop, low-carbon society systems that use sugar cane.
○ Revitalization of industry by adding value to sugar cane, the island's core industry.

Highly efficient production of bioethanol

Strive to raise bioethanol production efficiency and reduce costs through further improvements to yeast.

Investigation of stability of bio-fuel distribution

Investigate the construction of stable distribution systems for the island's bio-fuel (E3) and aim to expand the use of bio-fuel.

Survey on Development of Applications for High Value-Added Bio-Ethanol

Deliberate on ways of using high value-added ethanol other than for fuel, in an effort to make it more economical.

Contact

Eco-Island Promotion Division, Planning and Policy Department, Miyakojima City (Attn: Suzuki)
Tel: 0980-72-3751 Fax: 0980-72-3795 E-mail: ts.ecotown@city.miyakojima.lg.jp

About Oguni Town

- Population: 7,500
- Area: 136.72 km²
(80% forest)
- Main industries: Agriculture, Forestry, Tourism



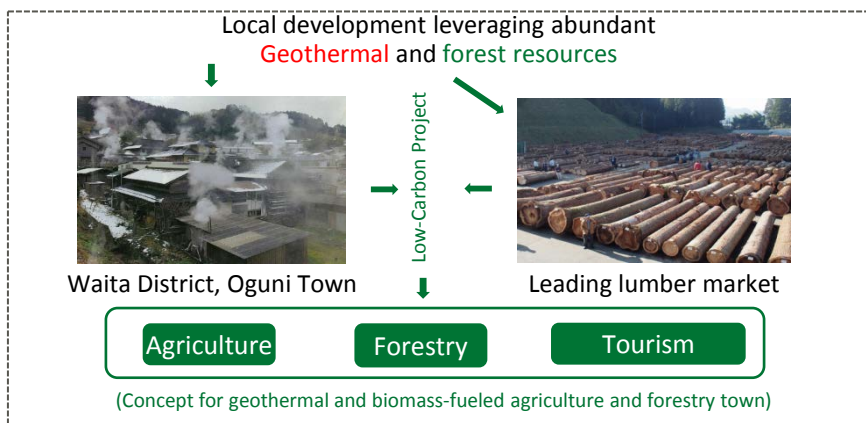
Dairy products made with Jersey cows' milk



Nabegataki Falls, a "power spot" of the area

Local production and local consumption of energy

Use geothermal energy and biomass to supply energy to the region, for achieving efficient energy use and revitalization of the agricultural and forestry industries



"Wood Station" Project



A long line of mini-trucks forms on shipment days



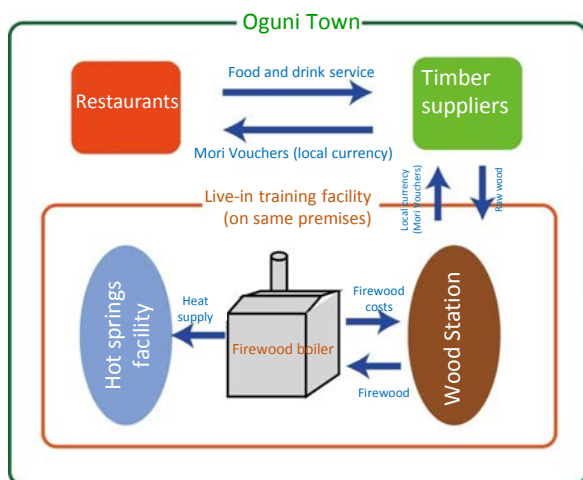
Collected firewood is used as fuel

Our slogan is

"Paying for evening drinks with a mini-truck and a chainsaw!"

The "Wood Station" Project began in March 2015. Forest owners and forest volunteers ship under-utilized forest materials, such as leftover timber and forest thinning, to the Wood Station, and receive the local currency, "Mori Vouchers," in return. These vouchers can be used as payment options at member stores in the town. They can also be used to pay for those evening drinks.

The collected timber is used as firewood to fuel the woody biomass boiler that was installed in the town's hot springs facility in February 2016. Comparing figures for before (April 2015) and after (April 2016) the installation of the boiler, the facility's heavy oil consumption has been cut to 1/14th. After the 2016 Kumamoto Earthquake, hot spring water heated with the stockpiled firewood was released for free, that made large numbers of evacuees happy.



About Niseko Town

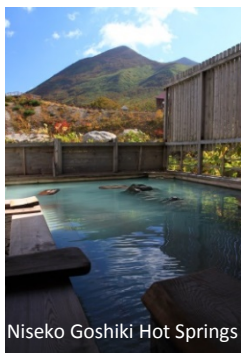
- Population: Approx. 4,900 (of which, 148 foreign nationals)
- Area: 197.13 km²
- Main industries: Tourism, agriculture
- Tourist numbers: 1.59 million (FY2014)



Local sake
"Kurabitoshu"



Sunflower fields and Mt. Yotei



Niseko Goshiki Hot Springs

The Action Plan's Three Priority Areas

Energy saving and use of renewable energy in tourist areas

Grass-roots initiatives in households

Energy turnaround



86% CO₂ reduction by FY 2050

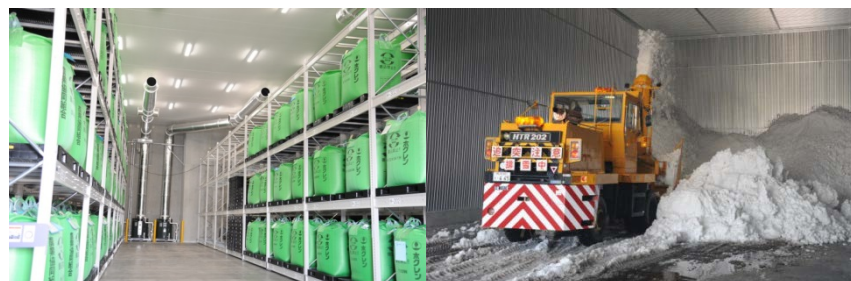
Building a low-carbon community with focus on the heating sector

In Niseko, room heating consumes a large amount of energy. We are actively introducing renewable energies in the heating sector. By taking maximum advantage of local resources, including geothermal-heat, hot spring heat and snow-ice cryogenic energy, the entire community, including government, residents, and businesses, will be able to achieve major reductions in greenhouse gases.



Niseko Community Center (extensive renovations in 2011)

- Improved insulation (exterior insulation / super-insulation plastic window sashes)
 - All lights are LED lightbulbs
 - Roof has sun-tracking solar power panels
 - Cooling and heating with geo-thermal heat pumps (cooling in main hall only)
- Heating: 19 x 10 kW pumps (6 for cooling), 31 x 80 m bore holes



JA Yotei snow- and ice-cooled rice storeroom (newly built in 2013)

- 2 storerooms (940 t capacity) for unpolished rice
- Snow storeroom capacity: 1,300 tons of snow



Niseko Kids Club after-school childcare facility (newly built in 2015)

- Larch wood from local forests used for construction materials
 - Wood-fiber insulation, wooden window frames
 - Geo-thermal heat pumps used for heating
- Heating: 2 x 10 kW; 3 x 100 m bore holes

About Ikoma City

- Population: Approx. 121,000
- Area: Approx. 53 km²
- Ikoma is a residential city, whose charm lies in its rich natural surroundings, as typified by the Mt. Ikoma Range.



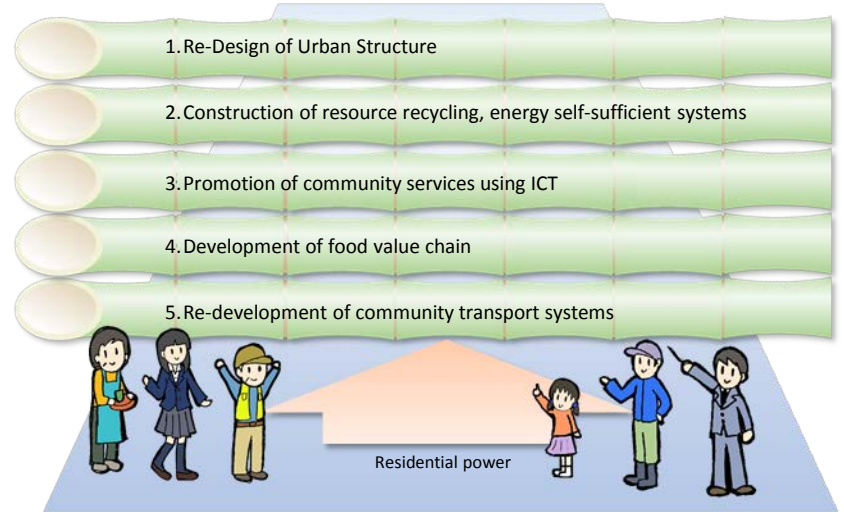
Traditional handcraft, Takayama Chasen bamboo tea whisk



Mt. Ikoma

Action Plan

Future Vision for Ikoma
Low-carbon, recycling residential city, built through collaboration between residents, business, and government



Establishment of the local power company

A local public company invested in by the city, residents and business operators is going to develop the “local production for local consumption” model, by selling locally generated electricity to the residents and business operators in the city. Also, by monitoring power consumption data, the company is going to provide services such as monitoring and preventive care for senior citizens, support for shopping and child rearing, and the transmission of municipal information. Thus this company attempts to improve the convenience of residents’ lives and revitalize the local economy.

