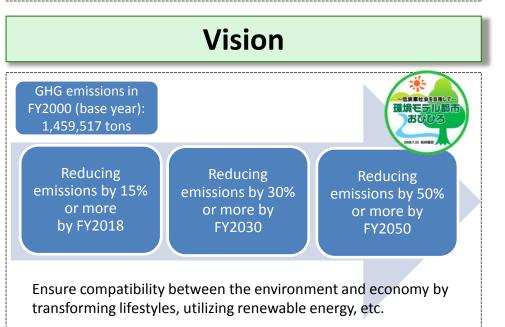
Obihiro Eco-Model City [Obihiro City, Hokkaido]

Overview of the city

- Population: 168,232 (as of the end of Mar. 2015)
- •Area: 619.34 km²

「環境未来都市」構想

- Land use: 38.6% agricultural land, 6.6% mountain forest, 5.8% residential land
- Main industries: Agriculture





Roles of government, citizens, corporations and

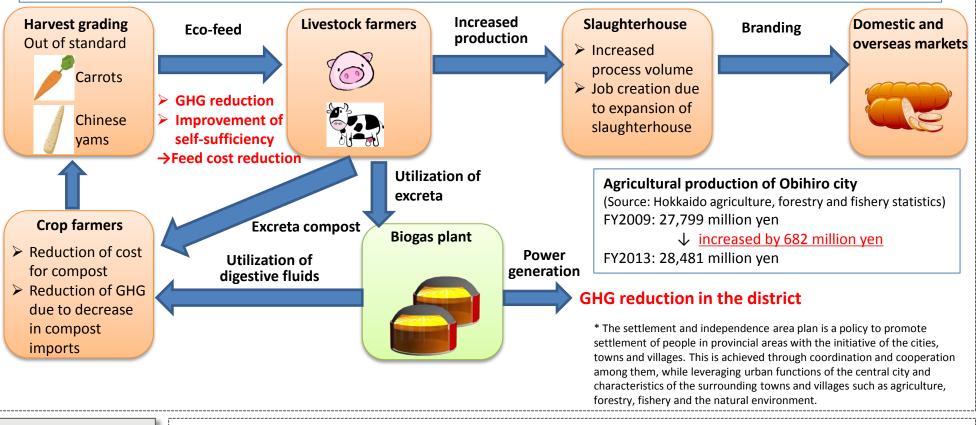
other organizations

Aiming for establishment of a low-carbon society with the participation of diverse stakeholders

Overview of characteristic efforts

Utilization of agricultural biomass

- Revitalization of agriculture and reduction of GHG emissions have been made through cooperation between plant cultivation and animal cultivation, and promotion of biomass utilization.
- ✓ With the promotion of Eco-feed from FY2009 to FY2013, GHG emissions have been reduced by 57,518 tons.
- ✓ In accordance with the "settlement and independence area plan"* and "Tokachi biomass industrial town plan" in cooperation with 18 towns and villages in the Tokachi district, we are strengthening the industrial base and revitalizing the local economy through utilization of biomass.



Contact

Attn: Masayuki Ishii, Environmental City Promotion Section, Citizens Environment Department, Obihiro city, Hokkaido Tel: 0155-65-4135 Fax: 0155-23-0161 E-mail: environment@city.obihiro.hokkaido.jp

Tsukuba Eco-Model City [Tsukuba City, Ibaraki]

Overview of the city

• Population: 223,008 (as of Aug. 1, 2015)

- Area: 284.07 km²
- Land use: 16.4% rice field, 23% farmland for crops other than rice, 21.4% residential land, 17.9% forest, 0.7% wilderness, 5.8% miscellaneous use, 14.8% other (Source: 2014 property tax record)

Being designated as the Tsukuba International Strategic Zone, the city is the hub of Japan's international research, having about one-third of Japan's public research institutions as well as a number of private institutions.

Vision



Roles of government, citizens, corporations and other organizations

Aiming for a low-carbon society through an "all-Tsukuba" effort

Tsukuba City has collective knowledge and technologies that can contribute to tackling global warming and other environmental issues, with a gathering of universities and institutions having diverse knowledge and broad technologies. Taking into account the concept that it is important to be a model low-carbon society for others, we have proposed "Tsukuba Environmental-Style" in 2008 aiming at a reduction of CO₂ emissions per citizen by 50% by 2030. This has triggered the formation of the "all-Tsukuba" effort by citizens, corporations, universities, research institutions and the government aiming for a low-carbon society. The city was designated as the Eco-Model City in March 2013. Based on this all-Tsukuba collaboration system, we further aim for realization of a city where everyone from children to elderly people can smile, through an integrated approach composed of the four aspects of "S," "M," "I," and "Le."

<u>Smart Community</u> <u>Mobility Traffic</u> <u>Innovation & Technology</u> <u>Learning & Education</u>

Overview of characteristic efforts

Smart Community

Development of an integrated approach model area

Formation of a model low-carbon urban district is underway in the Katsuragi Northwest Urban District.

In 2013, Daiwa House Industry, NTT Urban Development and Tsukuba City have concluded an agreement to promote the resident-led sustainable community plan to realize the Tsukuba Eco-Style, "SMILe." Currently, we have constructed 175 houses with solar panels, batteries, fuel cells and HEMS, and three apartments with BEMS, and development of the surrounding area is in progress.

Also, we are proposing the utilization of advanced low-carbon facilities in public utilities, and are planning to install solar shelters on pedestrian walkways and bicycle roads in the district to provide information about the outcome of our efforts.

Additionally, introduction of low-carbon facilities is planned in the newly constructed public school in the district. The development of a low-carbon community is well underway in the whole district.



Impression of the model urban district





Ceremony to sign the agreement to promote the resident-led sustainable community plan to realize the Tsukuba Eco-Style, "SMILe"



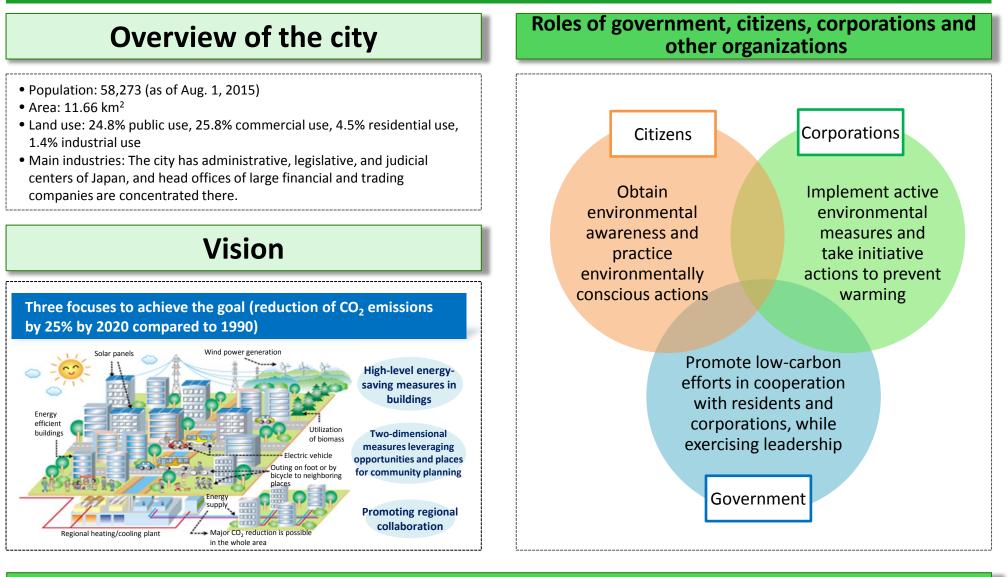
Artist's impression of solar shelter installation

Contact

Smart City Promotion Division, Tsukuba City, Ibaraki Tel.: 029-883-1111 (main number) E-mail: igp010@info.tsukuba.ibaraki.jp

大家人日日1月11日 「環境未来都市」構想

Chiyoda Eco-Model City [Chiyoda City, Tokyo]



Overview of characteristic efforts

Green Stock Operation — Low-carbon efforts in existing buildings

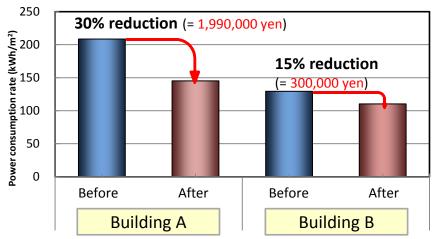
For business

To reduce CO_2 emissions from the business sector that accounts for three-quarters of the total emissions of the city, we promote checks on the condition of buildings and diagnoses for energy saving for small businesses. By extending support with funding programs, we promote

operational improvement and facility renovation using the diagnosis results to increase the number of low-carbon buildings.

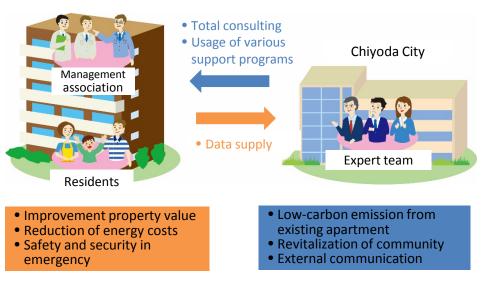


Effect of facility renovation based on diagnosis for energy saving



For apartment housing

We promote smarter (efficient) energy use in apartment buildings where 80% of the citizens are residing. Effective methods for energy saving are examined in cooperation between the government and private sector, and model apartments are selected to practice the methods. We examine the effects of such efforts, provide information about achievements, and promote renovation of existing apartments in the city.

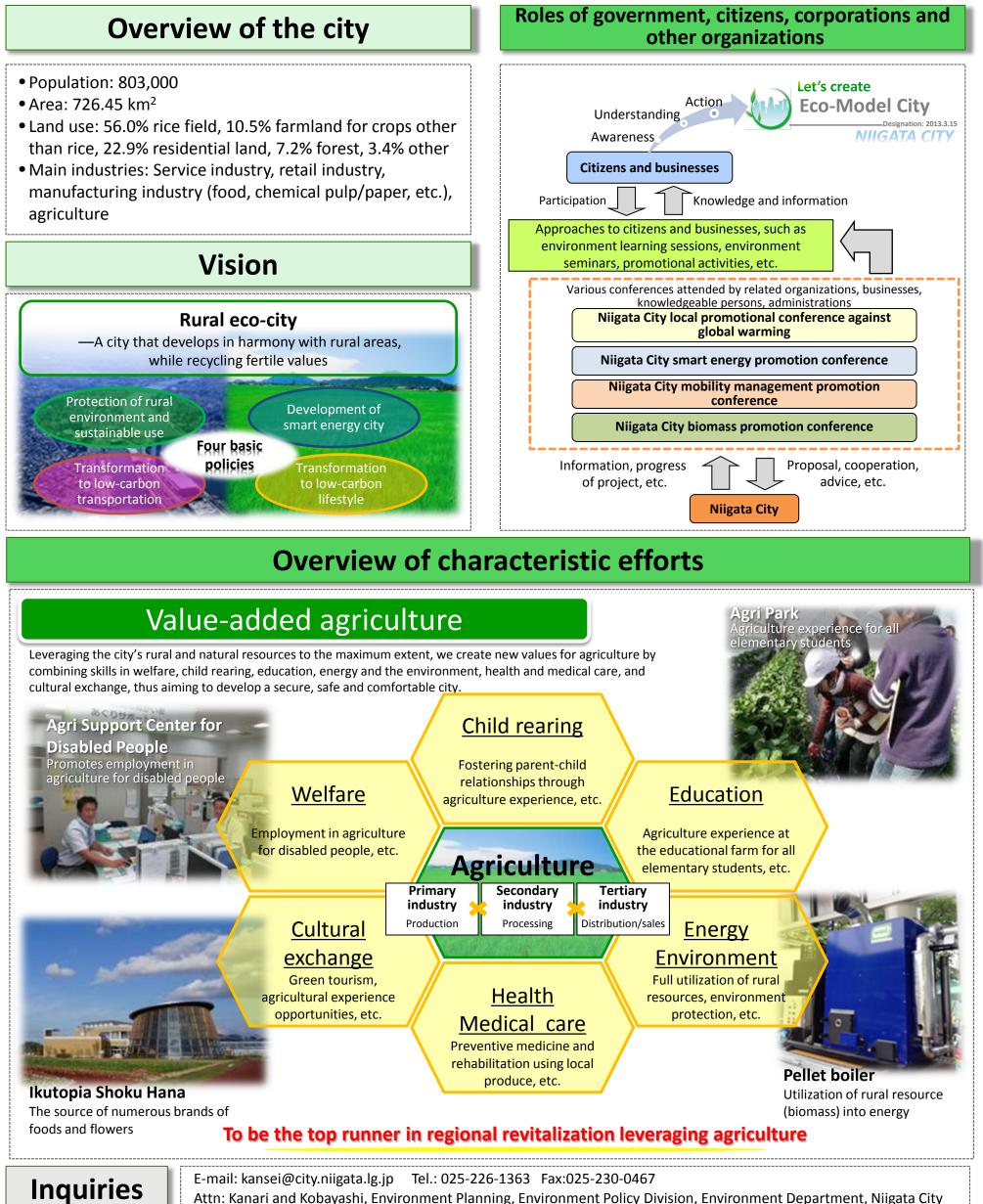


Contact

Environment Policy Division, Environment and City Planning Department, Chiyoda City Tel.: 03-5211-4256 Fax: 03-3264-8956 E-mail: kankyouseisaku@city.chiyoda.lg.jp

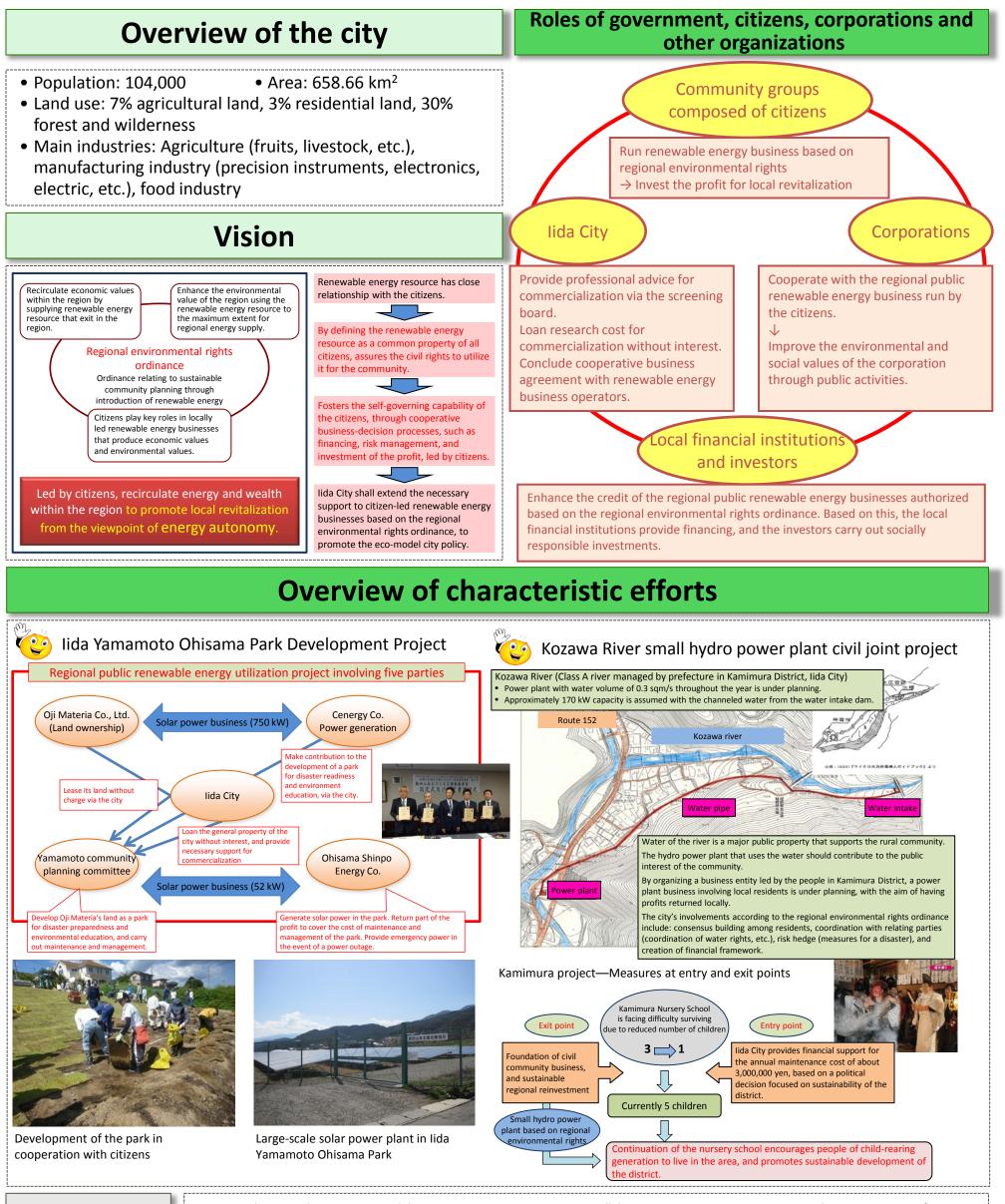


Niigata Eco-Model City [Niigata City, Niigata]





lida Eco-Model City [lida City, Nagano]



Contact

Regional Energy Planning, Eco-Model City Promotion Division, Citizens Collaborative Environment Department, Iida City, Nagano Prefecture Tel.: 0265-22-4511/0265-22-4673 http://www.city.iida.lg.jp sakugen_co2@city.iida.lg.jp



Mitake Eco-Model City [Mitake Town, Gifu]

Overview of the city

- Population: 18,825 (as of Aug. 1 2015)
- Area: 56.61 km²
- Land use: Approximately 60% forest
- Main industries: With the improved access owing to the newly constructed loop road, establishment of corporations (mainly manufacturing) is increasing.

Vision

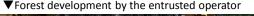


Roles of government, citizens, corporations and other organizations

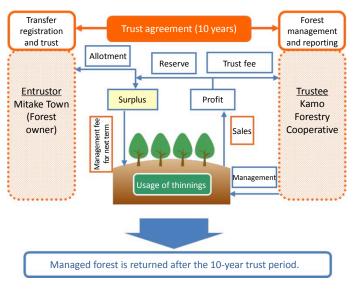


Overview of characteristic efforts









Promotion of sustainable forest management model (Entrusted forest management)

Mitake Town is blessed with a forest that shares about 60% of the town area.

To utilize the forestry know-how of the private sector, and to achieve proper management and effective use of the town's forest, we have adopted the entrusted forest management method that requires no public expense.

Establishment of a sustainable forest management model is helping to reduce CO₂ emissions, create new jobs, and cultivate human resources through collaboration with the town's forest volunteers.

Contact

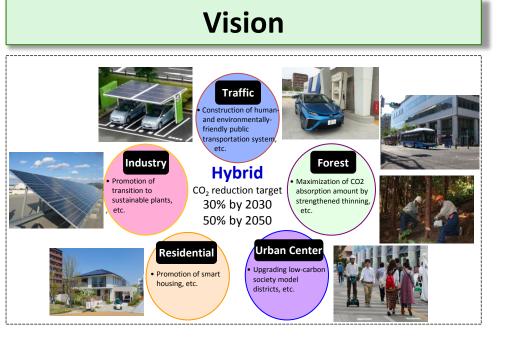
Attn: Hayakawa, Deputy Office Manager, Eco-Model City Promotion Office, General Affairs Department, Mitake Town Office, Kani District, Gifu Prefecture Tel.: 0574-67-2111 Fax: 0574-67-1999 E-mail: eco@town.mitake.lg.jp



Toyota Eco-Model City [Toyota City, Aichi]

Overview of the city

- Population: 422,784 (as of Sep. 1, 2015)
- •Area: 918.32 km²
- •Land use: 68% forest, 8% agricultural land, 7% residential land
- Main industries: Automotive, agriculture

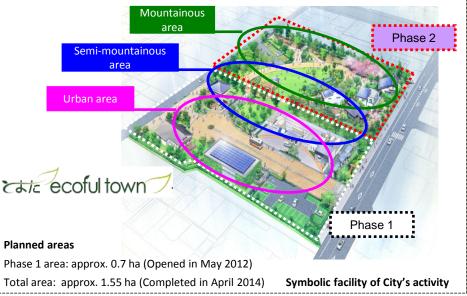


Roles of government, citizens, corporations and other organizations

Roles and responsibilities

Corporations and organizations: Development of advanced eco-technology Government: Communication and development/familiarization support Citizens: Promotion of eco-activities

Toyota Ecoful Town has been developed to exhibit Toyota City's lowcarbon efforts in cooperation with the private sector. It reproduces the city's regional characteristics on a small scale. Through the experience of the latest eco-technologies, it aims for lateral expansion of eco-activities. The facility has been visited by about 150,000 people from 80 countries worldwide.



Overview of characteristic efforts

Development of low-carbon transportation system

Leveraging its characteristics as a city of automobiles, the ultra-compact EV-sharing system, "Ha:mo," that supplements daily movement paths between public transportation systems, such as rail and bus, and destinations, has been introduced in the city at the initiative of Toyota Motor. As of September 2015, there are 40 rental stations within the city.



Since October 2014, a demonstration experiment anticipating global deployment has been run in Grenoble, France



International conference cohosted by the United Nations and Toyota City

The High-Level Symposium on Sustainable Cities: Connecting People, Environment and Technology was co-convened by the U.N. and Toyota City from January 15 to 16, 2015.



Lively discussions were made on issues such as the environment, aging and disaster preparedness.



During the "Toyota International Environment Week," from January 10 to 18, various events that promote people's understanding of the environment were held.



Promoting local production for local consumption of renewable energy with tax reduction and various subsidy programs.

Toyota City Eco-tax reduction

- (1) Smart house tax reduction (first in Japan) Partial exemption of property tax, etc.
- (2) Renewable energy plant tax reduction (first in Japan) Partial exemption of property tax for power plants with an output of 10 to 2,000 kW
- (3) Electric light vehicle tax reduction (first in Aichi)
 Full tax exemption for the light EV and ultra-compact
 EV

Toyota City Eco-Family Subsidy

- (1) Solar power system
- (2) Fuel cell system
- (3) Next-generation vehicle (including charging facility
- and external power supply system)

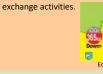
(4) Home Energy Management System (HEMS)

(5) Li-ion battery system for home use

anting Eco-Point

Points are granted for using the Oiden bus(community bus), visiting eco-facilities (Ecoful Town, etc.), and participating in urban-rural exchange events, etc.

Amassed points can be exchanged for a variety of goods, such as eco-products (waste bags, Oiden bus tickets), gift certificates, and Toyota's specialties, and for participation in rural experience and





Contact

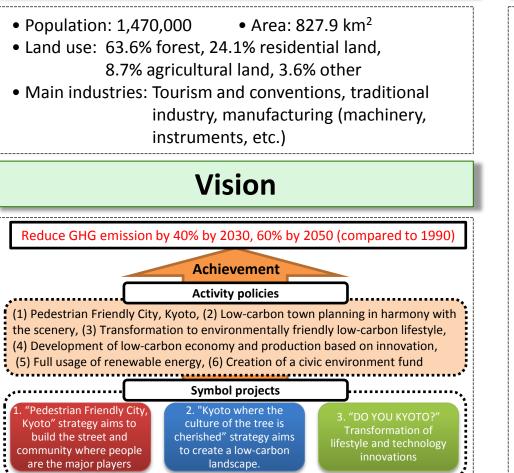
Eco-Model City Promotion Division, Planning and Policies Department, Toyota City Tel.: 0565-34-6982 Fax: 0565-34-6993 E-mail: hybrid-city@city.toyota.aichi.jp





Kyoto Eco-Model City [Kyoto City, Kyoto]

Overview of the city



Roles of government, citizens, corporations and other organizations

Level	Roles
Citizens	Increase interest in and deepen the understanding of global warming issues. At the same time, practice resource- and energy- saving activities, utilize renewable energy, and use resource- and energy-saving products and services in everyday lives.
Business	Practice resource- and energy-saving activities, utilize renewable energy, and use resource- and energy-saving products and services throughout the entire business process, including production, distribution, use/consumption, recycling, and disposal. Furthermore, provide environmental education to employees while partnering and collaborating with citizens and the government on their global warming countermeasures.
Kyoto City	Using facilities oriented to the local community, such as ward offices and branch offices, support global warming countermeasures implemented by citizens and businesses, together with taking the necessary action, including creating systems that provide regulations and incentives. Furthermore, Kyoto City itself is one of the primary large establishments operating in the city. Accordingly, as an operating entity and a consumer, actively practice resource- and energy- saving activities, utilize renewable energy, and use resource- and energy-saving products and services in its office operations.
Environment- protection organizations	Tackle concrete environmental conservation activities, such as working flexibly in domains where the government either cannot meet or not do enough to meet the diversified needs of society. Tourists and other visitors.
Tourists and other visitors	Cooperate with global warming countermeasures implemented by citizens, businesses, the government and environmental conservation groups.

Overview of characteristic efforts

Environmental education program, "Children's Eco-life Challenge"

Kyoto City started "Children's Eco-life Challenge Promotion Project" in 2005, in cooperation with the Board of Education, volunteers and NPOs. In this project, children, who will lead the future of the city, look at their lifestyle using workbook and learn and practice eco-life. Children's Challenge has been in practice at every municipal elementary school since 2010.

Pre-meeting (before summer Practice eco-life with families and friends Post-meeting (after and winter vacation) (during summer and winter vacation) summer and winter vacation)





Courtesy call of children from Malaysia

The eco-life challenge is now spreading in Japan and overseas. In the Iskandar Development Region in Malaysia, an educational program based on Kyoto's program has been developed and has been in practice since 2013. In Malaysia, they have added competitions to select the best school of the year. In 2015, this program will be expanded to all 198 schools in the area. We will explain global warming for children. Why not exchange your eco-life goals with each other after your challenge? Eco-chan, an eco-mascot of

Kyoto City

Contact

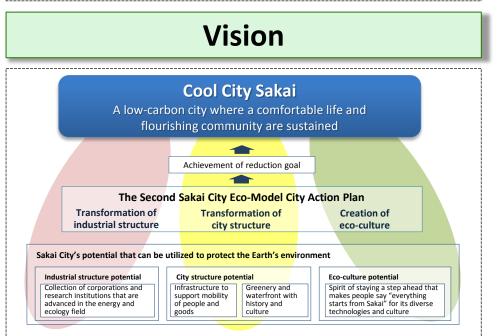
Eco-Model City Group, Global Environment Policy Office, Environment Policy Bureau, Kyoto City Tel.: 075-222-4555

「環境未来都市」構想

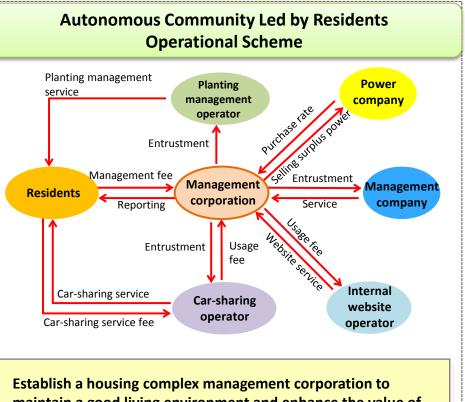
Sakai Eco-Model City [Sakai, Osaka]

Overview of the city

- Population: 838,544 (as of Jul. 1, 2015)
- •Area: 149.81 km²
- •Land use: 54.8% residential land, 10.5% agricultural land, 3.0% forest, 31.7% other
- Main industries: Manufacturing



Roles of government, citizens, corporations and other organizations



maintain a good living environment and enhance the value of the community, through operations of autonomous community (housing complex) led by the residents.

Overview of characteristic efforts

Harumidai Eco-Model Town Project

Overview of the project

Utilizing the public property, the site of a former elementary school, we have developed an environmentally conscious eco-model town, realizing net Zero Energy Houses (ZEH).







EV car sharing at the

community hall

Invitation of operator: May, 2011Solar power generation system
(17.1 kW) over the regulating
reservoir (common area)

or more ZEH Disaster-resistant f

there.

Disaster-resistant functions of the community hall The community hall is equipped with a solar power generation system, large battery system, V2H system, etc. Daily life water is secured with a large rainwater storage tank and emergency food is stored. Benches that can be used as a cooking stove or a lavatory are also installed

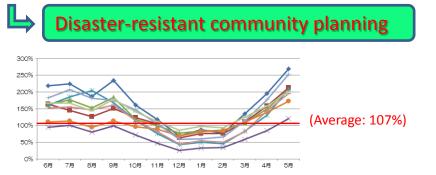
Introduction of equipment capable of achieving 100% or more ZEH rate for all houses All houses are equipped with a solar power generation system, lithium-

ion battery system, high-efficiency water heater or fuel cell for home use, HEMS, LED lighting, and an exterior power outlet for an electric vehicle.

All houses have been awarded S rank in the assessment of the CASBEE Sakai.

Verification of the effect—Monthly ZEH rate

Though there are some seasonal changes and variation between individual houses, almost all of them have achieved 100% annual ZEH rate. The average of the verification results for nine houses has marked 107%.



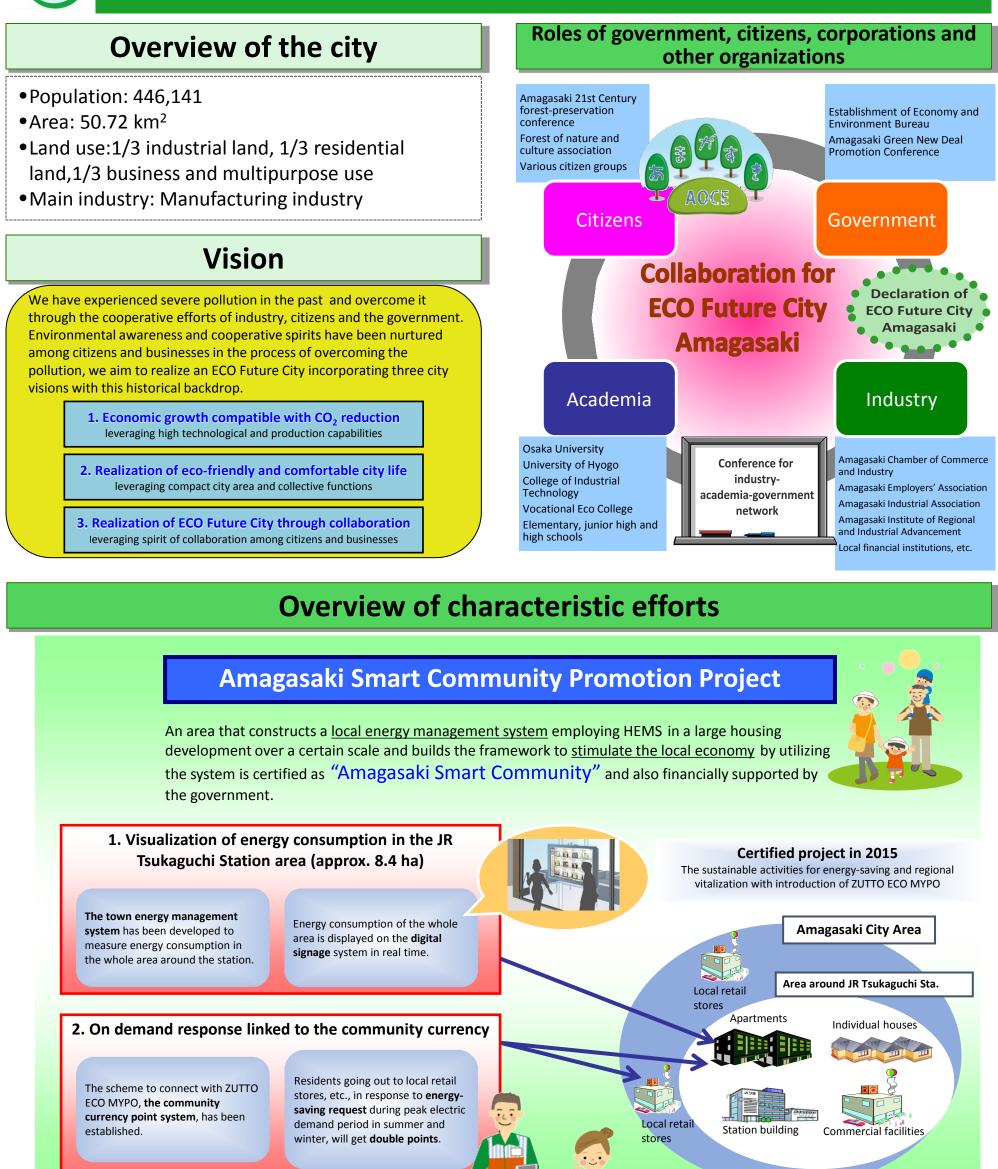


Contact

米堺市



Amagasaki Eco-Model City [Amagasaki City, Hyogo]

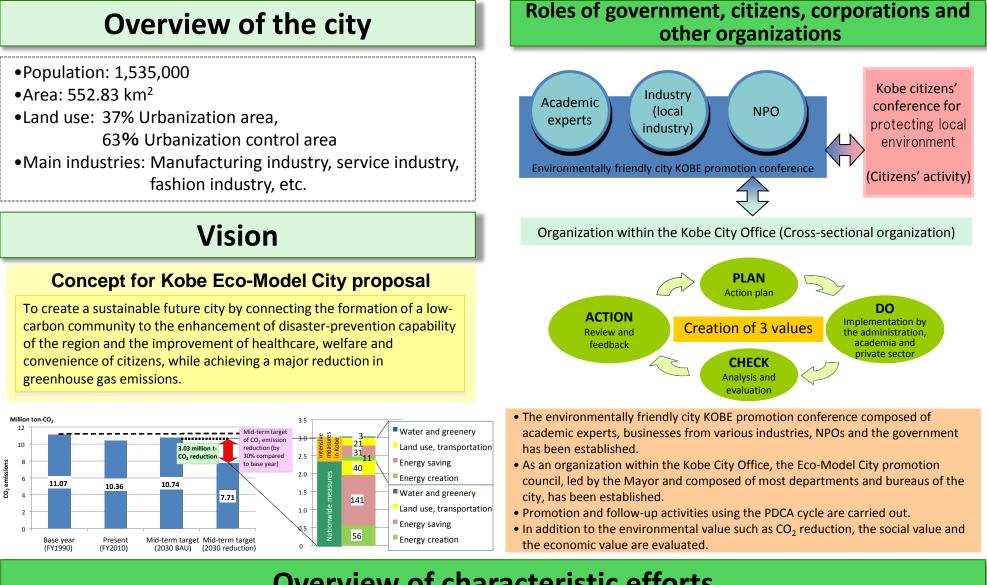


Contact

Environment Creation Division, Environment Department, Economy and Environment Bureau, Amagasaki City Office 1-23-1 Higashi Nanamatsu-cho, Amagasaki City, Hyogo Prefecture Tel.: 06-6489-6301 Fax: 06-6489-6300



Kobe Eco-Model City [Kobe City, Hyogo]



Overview of characteristic efforts

Promotion of hydrogen energy

Kobe City promotes various efforts relating to hydrogen energy in order to contribute to the realization of a hydrogen society. A subsidy system for fuel cell systems for home use was introduced in 2013. By introducing fuel cell vehicles (FCV) as official government vehicles and participating in various events, the city utilizes the vehicle to promote the environmental awareness of citizens and businesses. Development of a smart hydrogen station, which produces hydrogen using electricity generated with renewable energy and supplies the hydrogen to FCV, is underway, aiming at opening in spring 2016. We are also working on attracting commercial hydrogen stations.



「環境未来都市」構想

Nishiawakura Eco-Model City [Nishiawakura Vill., Okayama]

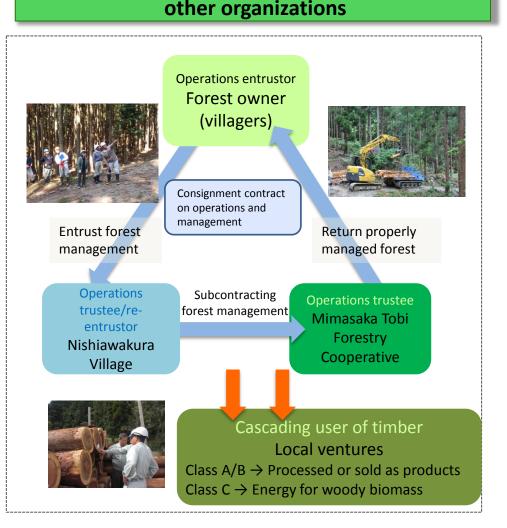
Overview of the city

- Population: 1,525
- •Area: 57.93 km²
- Land use: 95% forest, 5% agricultural/residential land and other
- Major industries: Forestry, tourism

Vision



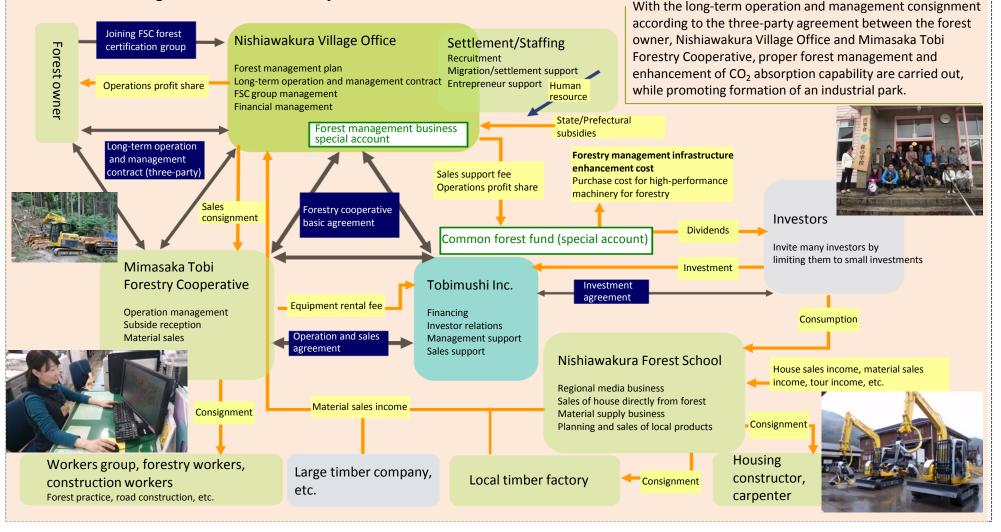
We never stop managing our forest that has been with us for 50 years. Let's continue 50 more years with the village-wide efforts, and achieve a "quality village" surrounded by a beautiful centurial forest.



Roles of government, citizens, corporations and

Overview of characteristic efforts

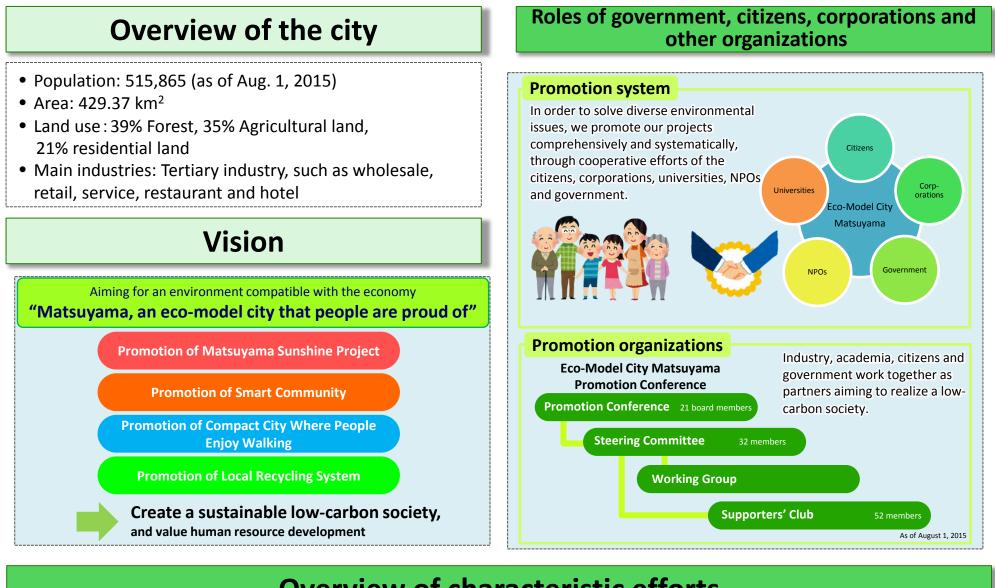
Nishiawakura Village Centurial Forest Project



Contact

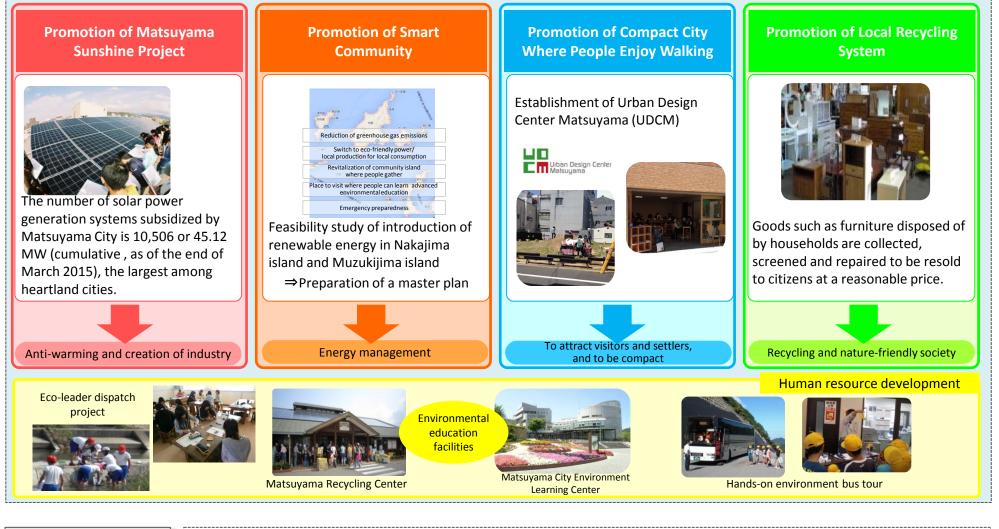
Eco-Model City Promotions, Industry and Tourism Division, Nishiawakura Village Office Tel.: 0868-79-2111

Matsuyama Eco-Model City [Matsuyama City, Ehime]



Overview of characteristic efforts

Aiming for an environment compatible with the economy—"Matsuyama, an eco-model city that people are proud of"



Contact

「環境未来都市」構想



Attn: Tsuchiya and Onishi, Eco-Model City Promotion Division, Environment Department, Matsuyama City Office

Tel: 089-948-6960 Fax: 089-934-1861 E-mail: kankyou-m@city.matsuyama.ehime.jp

Overview of the city

- Population: 3,657 (as of the end of Mar. 2015)
- Area: 236.51 km²

「環境未来都市」構想

- Land use: 91% forest, 0.7% rice field, 0.6% field for other crops
- Main industries: Forestry, construction industry

Vision

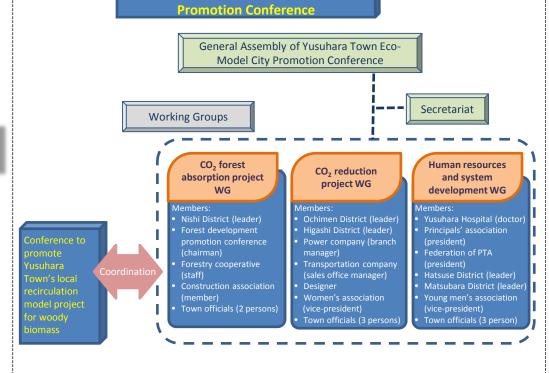
 Create a low-carbon town friendly to life, through efforts leveraging natural energy such as forest, water, wind and sunlight.

<u>Target</u>

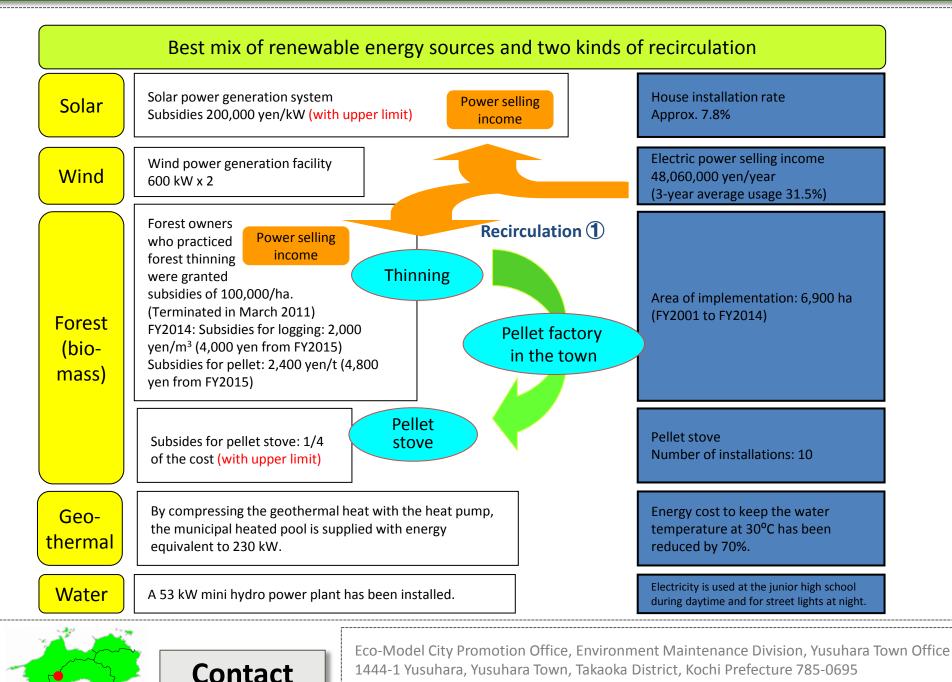
- Reduce GHG emissions by 70% and increase GHG absorption by 4.3 times by 2050 (compared to 1990).
- Achieve energy self-sufficiency rate of more than 100%, by using local resources.

Roles of government, citizens, corporations and other organizations Yusuhara Town Eco-Model City Promotion Conference

Yusuhara Eco-Model City [Yusuhara Town, Kochi]



Overview of characteristic efforts



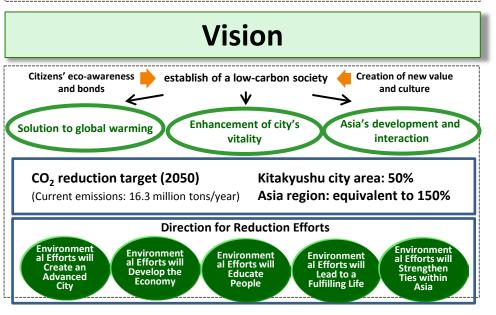
Tel.: 0889-65-1251 Fax: 0889-65-0221

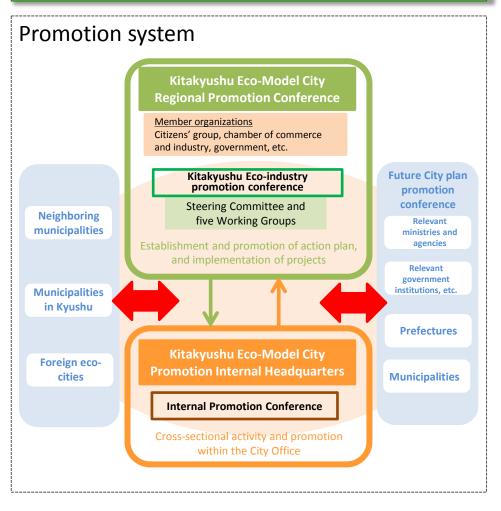
「環境未来都市」構想

Kitakyushu Eco-Model City [City of Kitakyushu, Fukuoka]



- 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.





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 CO_2 emissions by 150% throughout Asia by 2050 (compared to 2005 levels in Kitakyushu).

Kitakyushu: Economical benefits Revitalization of local economy Creation of new hypinesses

- Creation of new businesses learning from Asia
- Asian cities: Social Benefits

 Improvement of quality of life
 Solution to environmental issues
 Improvement of energy efficiency



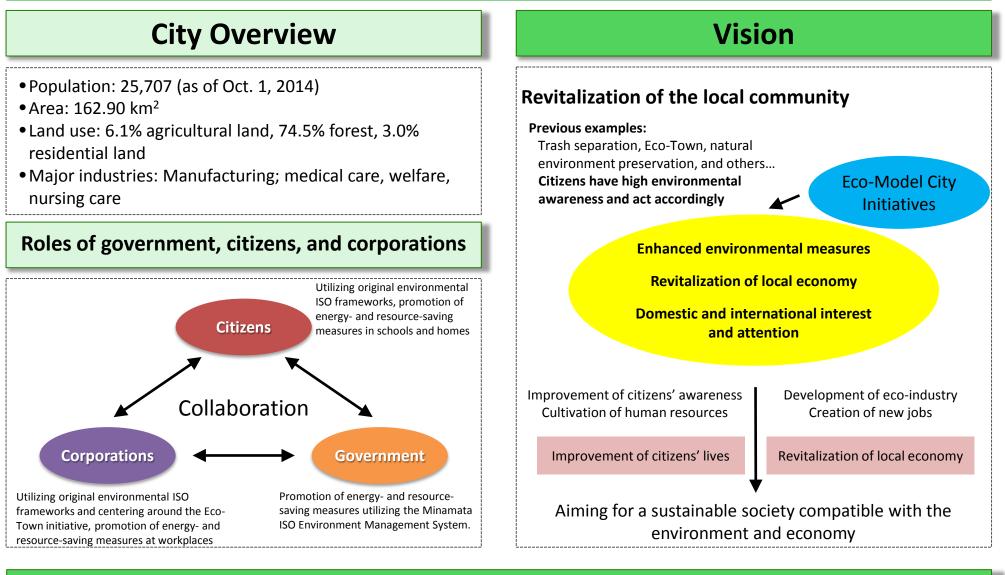
Contact

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

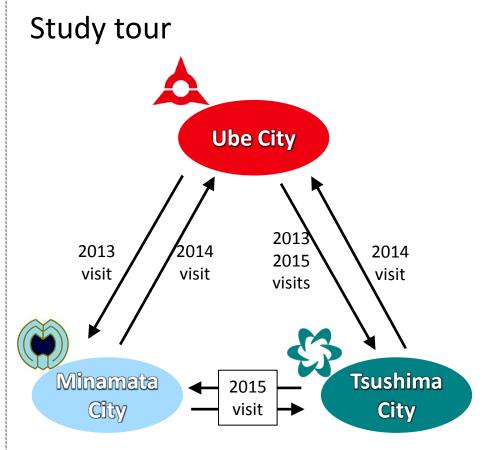
Roles of government, citizens, corporations and other organizations



Minamata Eco-Model City [Minamata City, Kumamoto]



Overview of characteristic efforts







Ube Industries (anti-pollution measures taken via cooperation between industry, government and academia)



Marine debris on the shore of Tsushima City; plastic liquidation factory

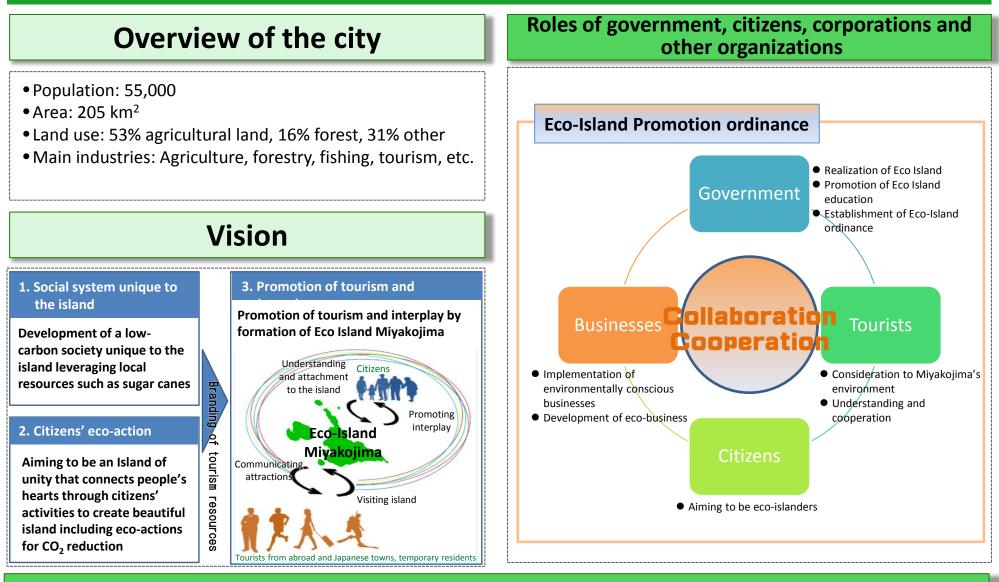
What is the study tour?

As municipalities at the forefront of advanced environmental initiatives, Ube City, Tsushima City, and Minamata City are working together to cultivate human resources in order to realize a sustainable society, as well as promoting efforts to become low-energy cities and preserve biodiversity.



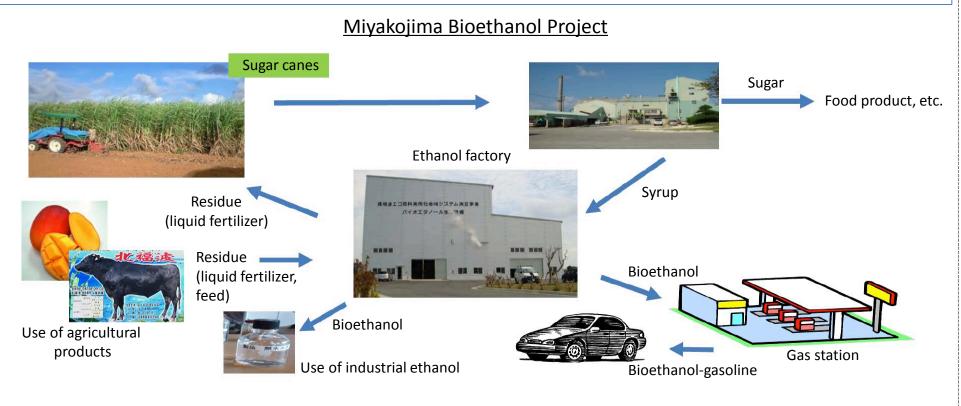
1-1-1 Jinnai, Minamata City, Kumamoto Prefecture 867-8555 Tel.: 0966-61-1612 Fax: 0966-63-9044 E-mail: ecomodel@city.minamata.lg.jp

Miyakojima Eco-Model City [Miyakojima City, Okinawa]



Overview of characteristic efforts

We aim for a recycling society by making cascading use of sugar canes, the primary produce of the island. For example, we aim to use bioethanol that is made from the residue generated in the process of sugar refining from sugar canes, and return the residue generated during the process of ethanol production to the soil.



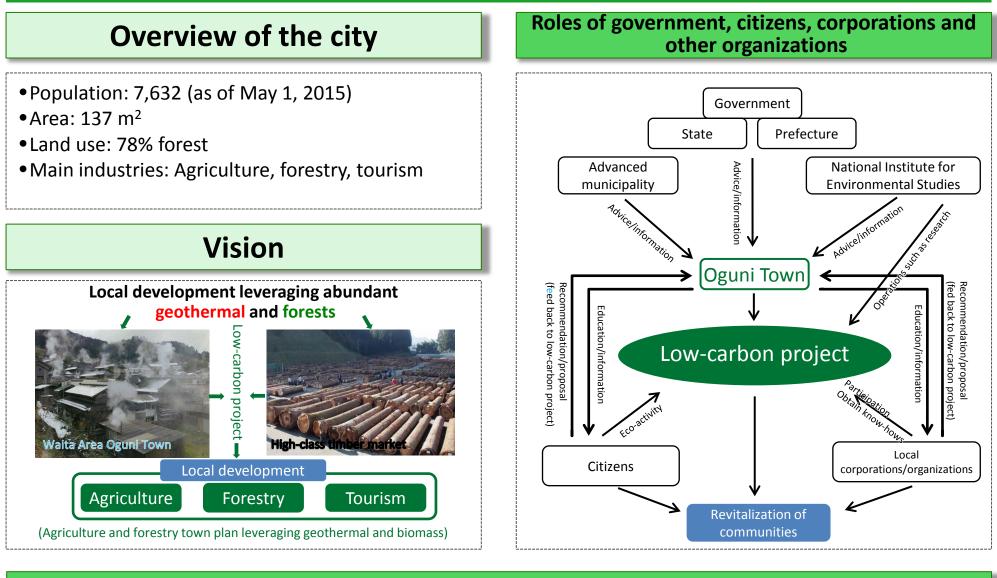
■ Formation of resource-recycling low-carbon society leveraging sugar canes

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Revitalization of industries by adding value to sugar canes, which is the primary industry of the island



Oguni Eco-Model City [Oguni Town, Kumamoto]



Overview of characteristic efforts





HP 「環境未来都市」構想



Geothermal kotatsu, a leg warmer



Geothermal lumber drying facility

This facility uses geothermal upwelling from the ground to dry lumber. Currently 14 lumber driers have been constructed. This ecological method, requiring no fossil fuel, allows timber to dry slowly compared to other methods, thus putting less burden on the timber and achieving a true color and luster.



In Waita Area, Oguni Town, people have traditionally made use of geothermal for various purposes such as cooking, heating and hot-water supply, and it has become rooted in their local life. This geothermal drying cabin is used for drying washed clothes and, at the same time, for drying crops.

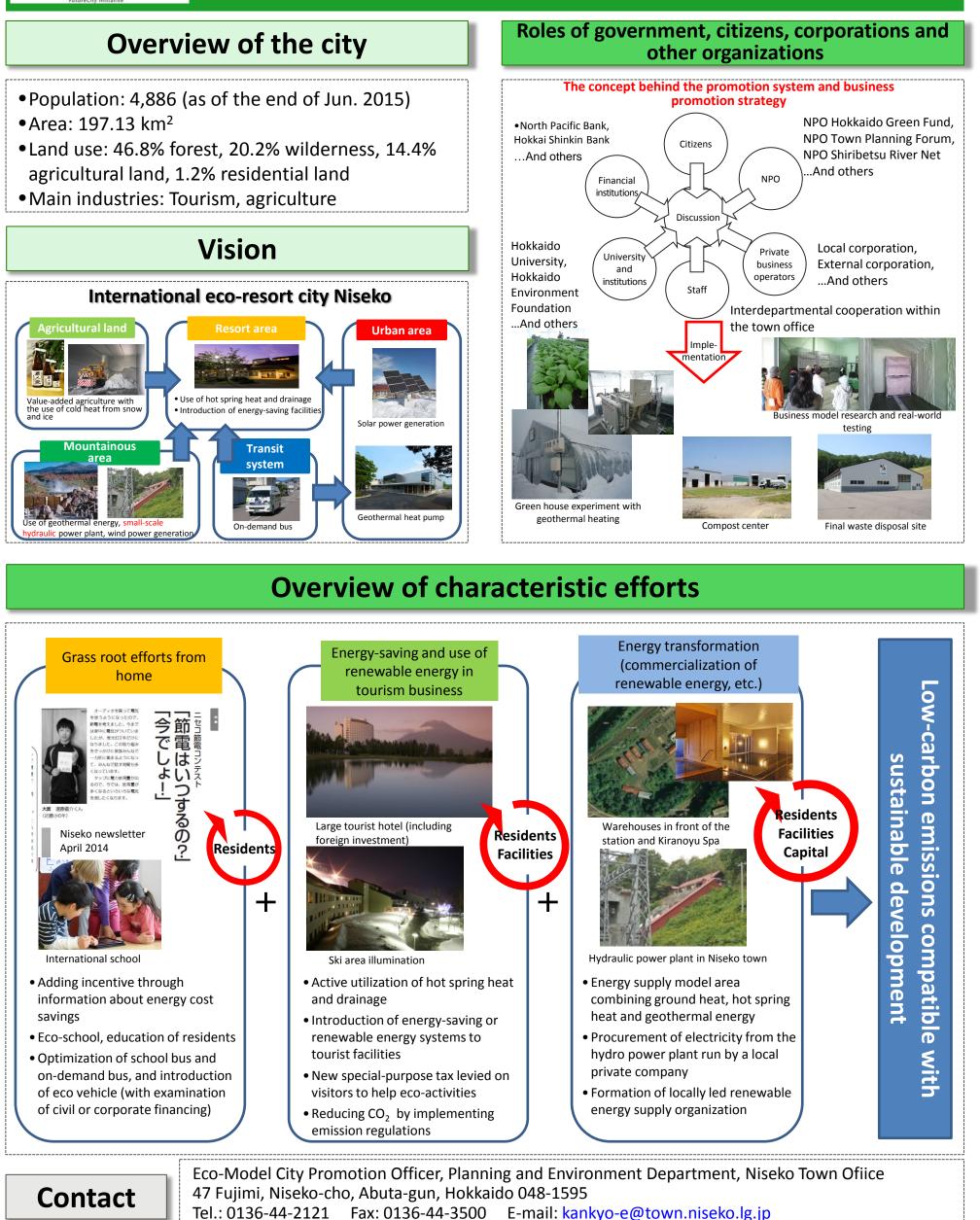
Contact

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Niseko Eco-Model City [Niseko Town, Hokkaido]

「環境未来都市」構想





Ikoma Eco-Model City [Ikoma City, Nara]

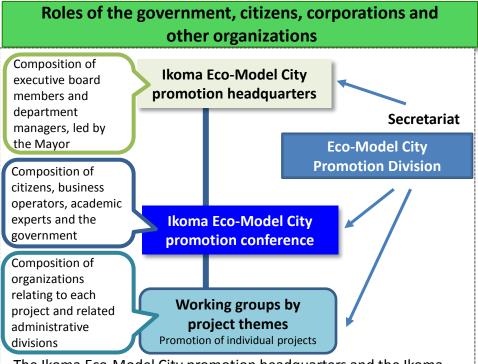
Overview of the city

- Population: 120,967 (as of Jul. 1, 2015)
- •Area: 53.15 km²
- •Land use: 32.8% forest, 35.3% residential land, 23.2% agricultural land, 8.7% other
- Main industries: Tertiary industry

Vision

We set our goals to be "a recycling-oriented low-carbon residential city constructed through collaborative efforts of citizens, businesses operators and the government." To realize this vision we promote the following five models:

- 1. Generation recycling model
- 2. Low-carbon and resource recycling model
- 3. Environment, energy and agriculture recycling model
- 4. Citizens-businesses operators -government collaboration model
- 5. Low-carbon businesses and new community services recycling model



The Ikoma Eco-Model City promotion headquarters and the Ikoma Eco-Model City promotion conference have been established. The government takes charge of overall follow up on the projects, the businesses provides professional know-how, academia including universities contribute to the projects with leading knowledge, and the citizens support the project as the core members. Four key entities – businesses operators, the government, academia and citizens -- collaborate with each other to realize the future

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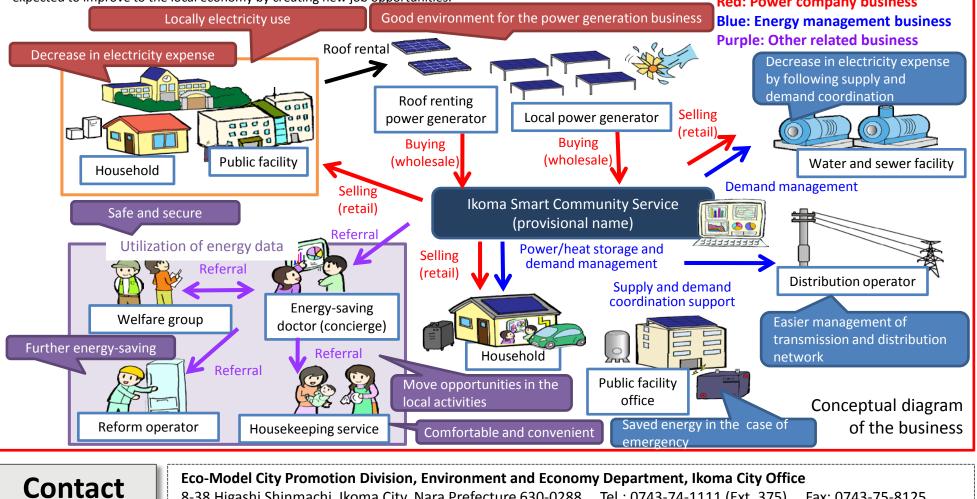
Overview of the characteristic efforts

vision.

Consideration to the establishment of the local power company (PPS)

Establishment plan of a community-based local energy company

A local public company invested by the city, citizens and business operators will develop the "local production for local consumption" model by selling locally generated electricity to the citizens and business operators. Also, by monitoring electric power consumption, the company is going to provide things such as monitoring service and preventive care for senior citizens, support for shopping and child rearing, and the transmission of governmental information. It is also expected to improve to the local economy by creating new job opportunities. **Red: Power company business**



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