

Community vitalization through SDGs

Utilizing local renewable energy

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ICLEI – Local Governments for Sustainability

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The 7th International Forum on the “FutureCity” Initiative

Important role cities can play is increasingly being recognized

Proactive actions are being taken by cities

High Level Political Forum on Sustainable Development

- Follow-up and review of SDGs at the global level
- 2018: Transformation towards sustainable and resilient societies



Marrakech Partnership for Global Climate Action

- Initiative to catalyze action among nations and climate stakeholders including businesses, local and regional governments, civil society and national governments





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7,100+ CITIES
REPRESENTING
600 MILLION PEOPLE
8% OF TOTAL GLOBAL POPULATION
THE WORLD'S LARGEST COALITION OF CITIES FIGHTING CLIMATE CHANGE

GLOBAL COVENANT of MAYORS for CLIMATE & ENERGY

COMPACT of MAYORS

Global 100% RE Cities and Regions Network

Cities, towns and regions with:

- a 100% RE target in at least one sector or commitment to explore the 100% RE pathway
- interest in international cooperation



Community of practice for knowledge exchange and policy dialogue

- inclusive, global
- access is free of charge

Join us! Engage in the
Global 100% RE Cities and Regions Network

100re.network@iclei.org

www.iclei.org/lowcarboncity/100RE

More on the Global 100% RE Campaign at go100re.net

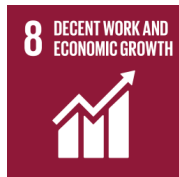
Focusing on local renewable energy

SUSTAINABLE DEVELOPMENT GOALS



Local renewable energy within the context of SDGs

- Energy is **fundamental** to local sustainability
- Promotion of local renewable energy
 - **Local circulation** of energy cash flow
 - **Local economic development, job creation**
 - Involvement of the **community / local businesses**
 - **Integrative approach** to solve multiple local challenges
(e.g. aging society, resilience, energy security)



Local Renewables Conference 2017

Creating and Networking Energy Autonomous
Community for a Low Carbon Society



7-8 September 2017, Nagano Japan





THE NAGANO DECLARATION

Local leaders working together to achieve
100% Renewable Energy cities and regions

8 September 2017

- We, the Mayors and Governors of Japanese cities and regions gathered today at the “Local Leaders’ Summit,” declare to **take new action** and **enhance cooperation** towards achieving 100% renewable energy cities and regions.
- ... we commit to utilizing local renewable energy to **overcome the challenges** that we face, **protect the livelihoods** of our residents, and **improve local economies**.

Utsunomiya City (Nagano)

**Community involvement
Cooperation with local businesses**

Ordinance of Local Environmental Rights

Ordinance related to sustainable regional development through the introduction of renewable energy in Iida City

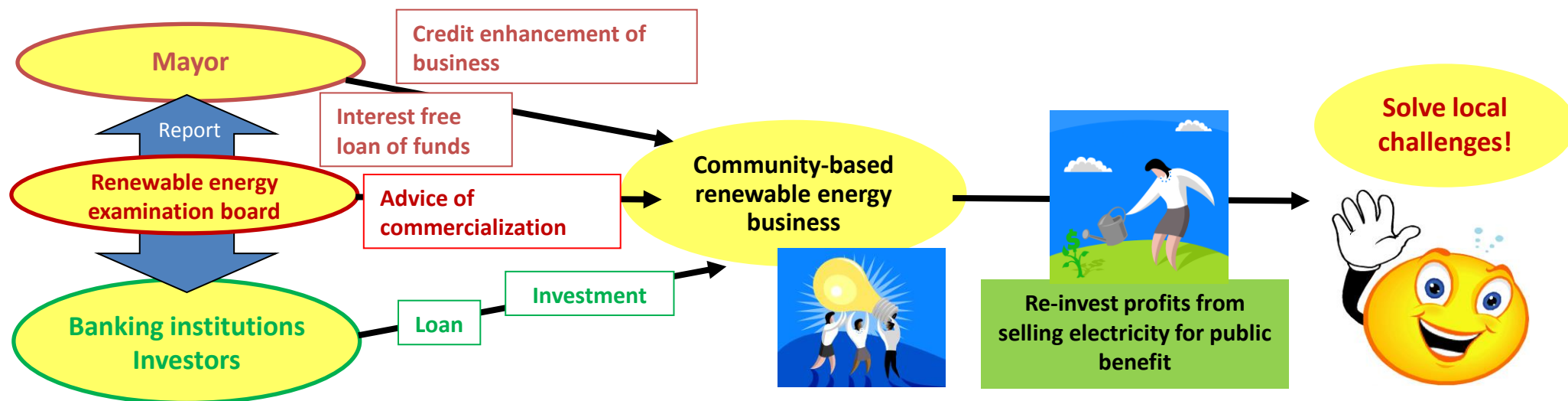
Local environmental rights

First in Japan

Iida citizens have the preferential rights to use natural resources available in the city as renewable energy in an environmentally harmonious manner, and thus helping the city move towards sustainable development.

The “ordinance of local environment rights” supports regional development promoted by the citizens through renewable energy business.

⇒ Creating community-based renewable energy business and promote energy autonomy that aims for sustainable regional development



By the support of the ordinance of local environmental rights, 9 community-based renewable energy businesses have been established.

Miyama City (Fukuoka) & Ikoma City (Nara)

Solving multiple local challenges
Aging society, well-being

Miyama City



Miyama Smart Energy

- Promotion of climate mitigation actions (energy saving & renewables)
- Renewable energy Local production & consumption (local economy)
- Coupling with welfare services
- Co-benefit / Multi-benefit

生活支援サービスについて

◎特に、高齢者の皆さんに対する生活支援のサービスを充実いたします

健康 サービス

介護予防体操への参加
・お気軽診断 など

なんでも サポートすっ隊

お話相手、水道・家電修理依頼、
リフォーム相談など

見守り

電力の使い方や安心
やさしく見守り



※食べる、住む、遊ぶ、学ぶ
医療・介護、趣味・・・
みやま市での暮らしに
欠かせないサービスや情報を
順次拡充を予定しています

Source: Miyama City Press Release (16 Feb. 2016)



The First Eco-Model Residential City “IKOMA”

Ikoma is a residential city located in the northwest of Nara with a population of 120 thousand and an area of 53 km²

Features

1. Residential city close to a big city
2. Historical city with rich nature
3. High citizen power



Challenges

1. Decreasing birthrate and aging population

The population growth rate in the high growth period was prominent in the country.

= The speed of aging population is among Top 5%.

⇒ The fiscal structure stabilized by the population growth is now shaking.

2. Weak industrial structure

85% of the tax revenue depends on the resident tax/fixed property tax.

⇒ Insufficient actions toward revitalizing industries

3. Use of citizen power

It is impossible to meet all the needs by government only

⇒ Occasions to use citizen and community power need to be made urgently.

Issues common to
any residential cities in Japan

We will make efforts to solve the issues through “Environment and Energy” as the eco-model city!

Ikoma Civic Power Company Established in July 2017!

- Business description

Electric power retailing by procuring renewable energy in the city with the highest priority and supply it to public facilities, private companies and ordinary households.

- Ikoma Civic Power” aims at...

Improving attraction in the city and solving issues through energy

Economy

The profit are not allotted to stockholders, but are used for civil service and revitalization of the city.

Environment

We promote acquisition of new renewable energy sources and a local production for local consumption system for energy.

Society

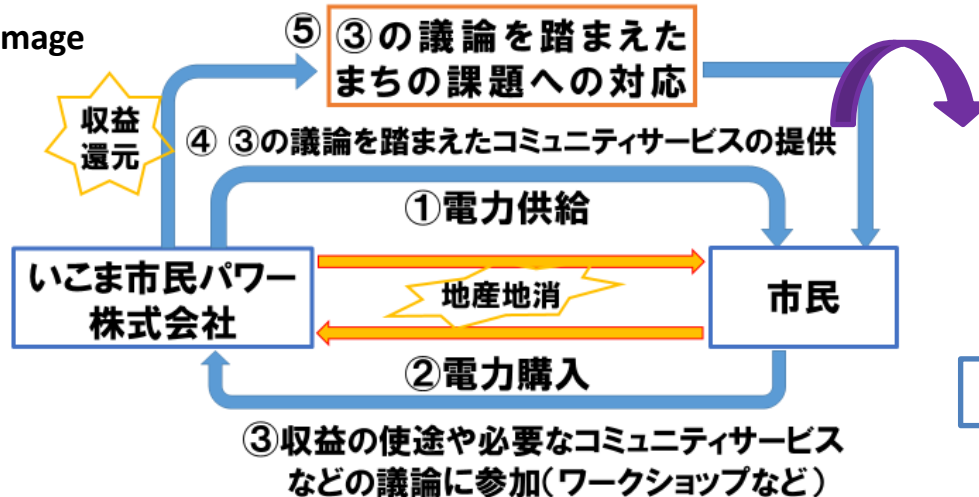
We strive to be a “power company by the citizen and for the citizen” which we think together and create together with citizens.

⇒Japan’s first new local power company invested by a citizen group

⇒Use of the profit is discussed in workshops with the citizens.

First, local and new electric power with thorough citizen participation and collaboration

※ Business image



Examples of community service

- ICT service: ICT service utilizing smart phones (with smartphone icon)
- Watch over elderly people
- Education: Sports classes, cooking methods in disaster, environmental lecture on demand (with chef icons)

Higashi Matsushima City (Miyagi)

Solving multiple local challenges

Energy security, resilience against natural disasters



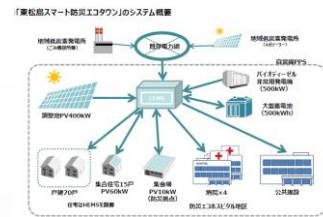
Efforts toward realization of resilient city



2011~2015
PV and storage batteries (GND) built in core shelters within the city



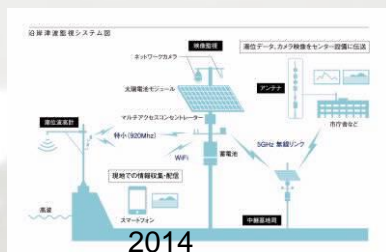
2014~2016
Smart disaster prevention eco town supplying electricity to residences and healthcare facilities



Mar. 2013
Installation of smart poles (10 sets)
Formulation of energy vision



2014
Carport solar system established at the same time as mega solar through private investment



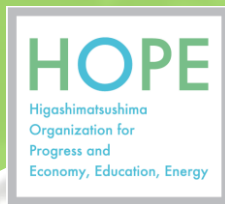
2014
Coastal monitoring camera system by independent electric power and specific low power radiotelephone



May. 15, 2016
G7 Toyama Environment Ministers' Meeting Parallel Session The Role of Cities



Dec. 2014
"FutureCity" Initiative Promoting International Forum



Oct. 2012
Establishment of Higashimatsushima Organization for Progress and Economy, Education, Energy
Nickname : HOPE



Dec. 2011
Formulation of reconstruction town development plan



Dec. 2011
Adoption of "FutureCity" Initiative (11 cities in Japan)

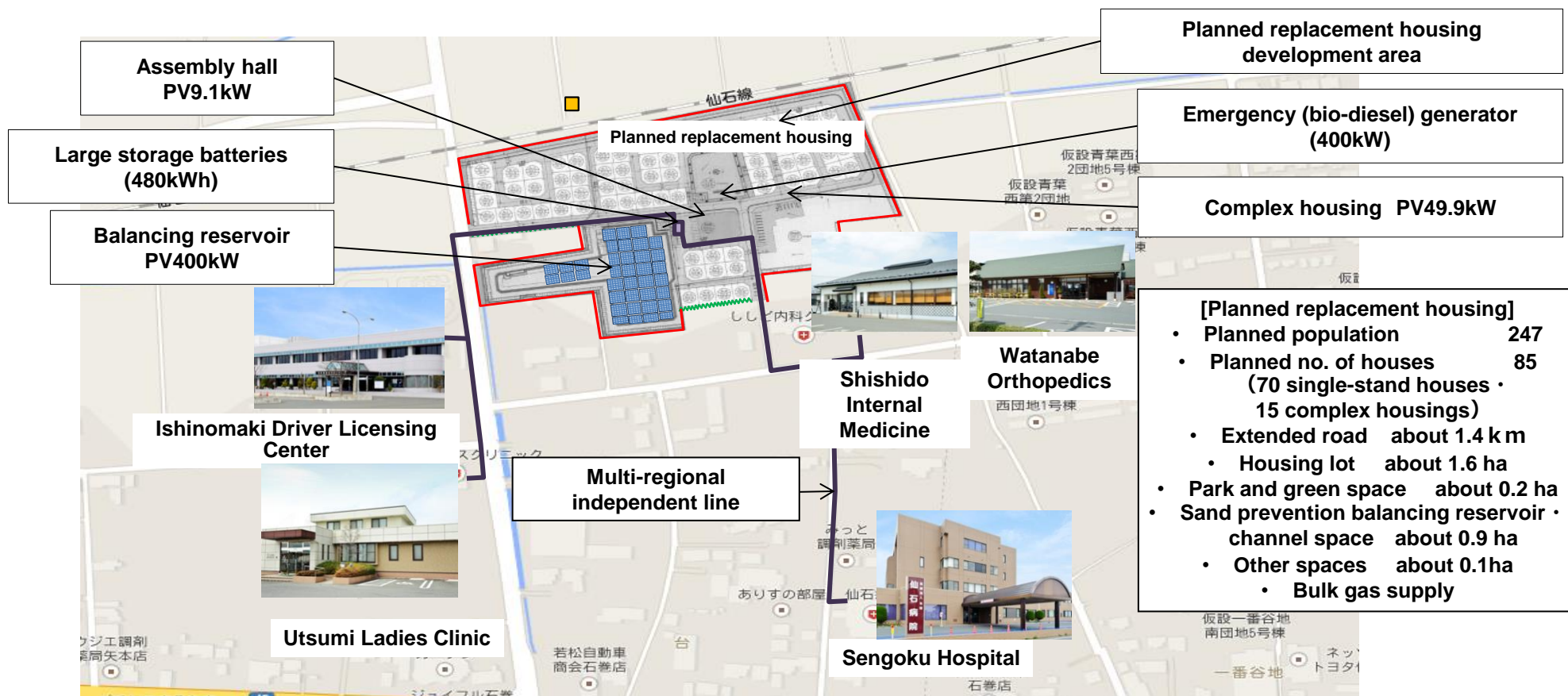


2014
Awarded a Platinum City certification (Platinum concept network)

Higashi Matsushima Smart Disaster Prevention Eco-Town



- Energy provision to planned replacement housing areas, hospitals and public institutions through independent line PPS. In times of emergency electrical power will be provided by emergency generators through independent lines.
- It is composed of 460kw of solar power, large storage batteries and emergency generators. It is usually self-consuming the electrical power produced by a combination of solar power and storage batteries within the areas, and the regional new power company supplements the shortfall by sourcing the power from electric power companies and market.



Towards community vitalization

Challenges and potential solutions moving forward

Challenges

- Community-led efforts, community participation
- Collaboration with businesses
- Creating environments that enhance community/business action

Moving forward

- Networks to support local government cooperation
- Support from national governments



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100% Renewable Energy Cities and Regions Network



- **Network of leading cities, towns and regions that are driving the transition towards 100% Renewable Energy**
- Launched in 2015 as part of the Global 100% Renewable Energy Campaign
- Cities, towns and regions with:
 - a **100% RE target** in at least one sector or commitment to explore the 100% RE pathway
 - interest in international cooperation
- Community of practice for **knowledge exchange** and **policy dialogue**
- Opportunity to **network with other leading cities and experts** on a global scale

Thank you!

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