Industrial Decarbonization to be Realized in Ishikari City, Hokkaido

Planning and Economy Department, Ishikari City, Hokkaido
Ishikari City overview

Area: 722.42km² (About 70km north to south)
Population: 58,282 (As of the end of December 2020)

Ishikari City

Atsuta Ward
Population: 1,725

Hamamasu Ward
Population: 1,206

Ishikari
Population: 55,351

The culture of Ishikari City is the history of salmon.

Ishikari City aims to be a zero-carbon city by 2050 by utilizing local renewable energy in the community.
Ishikari Bay New Port Area is an industrial park that supports urban functions.

About 15km from the center of Sapporo
Industrial complex Ishikari Bay New Port Area

Development scale 3,022ha
Located companies: over 760
Working population: over 20,000

Warehouse, Logistics, Manufacturing, Power plants, large-sized commercial store (Costco) and more...
Renewable energy is concentrated on a large scale in the Ishikari Bay New Port area.

As for the amount of renewable energies introduced

300MW

Wind power
Woody biomass power
Solar power

*Black and white is planned

*Including under construction and planning
Ishikari city has enormous potential for introducing various types of renewable energies.

Presented by Green Power Investment Corporation
Decarbonization of industry

**Industrial complex**

Clustering in the same area

**Renewable Energy**

Ishikari Bay New Port Area is an industrial space that will curb GHG emissions, which have been increasing since the Industrial Revolution.
Renewable energy zone in Ishikari City

RE-ZONE

Planned construction site for large storage batteries

Regional microgrid

Biomass power plant (under construction)

Offshore wind power generation business area

RE-ZONE (100% renewable energy zone)

The RE zone will be approximately 100 ha and will gather energy-intensive industries such as data centers and large-scale industrial facilities.
Regional renewable energy supply

In 2024, the company plans to begin supplying local renewable energy to the region.

Renewable energy supply capacity to the RE zone starts at 50 MW.
Zero emission Data center

With local renewable energy fully decarbonize data center.
We are working with Hokkaido Electric Power Company and Kyocera Communication Systems to realize the concept.

Renewable energy substation

Data center

Fluctuation adjustment function

Soler power 2MW

Supply and demand control AI

Power load 2.6MW

Use of outside cold heat

UPS

Electricity Demand Measurement

Battery 2MW × 1~3h

Charging and discharging

Open air

Renewable energy substation

Kyocera

Zero emission Data center

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Aiming for the realization of a Hydrogen society

Plan to produce hydrogen from fluctuating renewable energy surpluses.

We aim to build a hydrogen society with hydrogen produced from surplus electricity from renewable energy sources.
Ishikari City aims for local production of renewable energy

Environment  \[ \rightarrow \text{GX} \rightarrow \]  Economy

We will promote local production of renewable energy and decarbonize the industry.

Realization of a decarbonized region  \[ \rightarrow \]  Realization of sustainable industry