


Let's work together!

# Zero Carbon Hokkaido Challenge

☑ Check the zero carbon initiatives listed below to take on the challenge

**Education**

Scan here to watch the video "Zero Carbon and Our Future"



<p><b>Clothing</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Take care of your favorite clothes to make them last longer</li> <li><input type="checkbox"/> Choose clothing that will last longer</li> <li><input type="checkbox"/> Rent clothing or utilize a subscription service</li> <li><input type="checkbox"/> Recycle clothing that can no longer be worn</li> </ul>	<p><b>Food</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Choose local and in-season ingredients</li> <li><input type="checkbox"/> Select shorter expiry dates when buying food to eat straight away</li> <li><input type="checkbox"/> Reduce food loss! Eat all the food on your plate, with no leftovers</li> <li><input type="checkbox"/> Be mindful of how you buy and store food</li> </ul>	<p><b>Housing</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Know your CO<sub>2</sub> emissions</li> <li><input type="checkbox"/> When moving house, choose a 'Hoppon-gata Jutaku 2020' (Northern-style home) or ZEH (net zero energy house)</li> <li><input type="checkbox"/> Make efforts to save electricity and water</li> <li><input type="checkbox"/> When replacing electrical appliances, choose energy-saving devices</li> <li><input type="checkbox"/> Install solar panels</li> </ul>
<p><b>Garbage</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Carry a flask to reduce plastic waste</li> <li><input type="checkbox"/> Keep the oceans clean</li> <li><input type="checkbox"/> Take part in litter-picking activities and keep the streets clean</li> </ul>	<p><b>Education</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Think about the future of the environment</li> <li><input type="checkbox"/> Learn as a family through your children</li> <li><input type="checkbox"/> Tackle environmental issues together with your family</li> </ul>	<p><b>Sport &amp; health</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Walk or use a bicycle for leisure or when commuting or travelling to school</li> <li><input type="checkbox"/> Keep fit by walking when the weather is fine</li> <li><input type="checkbox"/> Use the stairs whenever possible</li> </ul>
<p><b>Transportation</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Try to use EVs</li> <li><input type="checkbox"/> Use bicycles and public transportation</li> <li><input type="checkbox"/> When replacing your car, select a next-generation vehicle</li> <li><input type="checkbox"/> Practice eco-driving techniques</li> </ul>	<p><b>Forestry</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Plant, nurture and enjoy trees</li> <li><input type="checkbox"/> Refresh yourself by strolling in the forest</li> <li><input type="checkbox"/> Incorporate wood into your life</li> </ul>	<p><b>Business</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Know your CO<sub>2</sub> emissions</li> <li><input type="checkbox"/> Reduce the use of paper</li> <li><input type="checkbox"/> Promote no-car commuting and no-overtime days</li> <li><input type="checkbox"/> Introduce working from home and 'workations'</li> </ul>

A bright future for Hokkaido

## 2050 Zero Carbon Hokkaido conceptual diagram

This is a conceptual diagram of Zero Carbon Hokkaido, a northern land where greenhouse gas emissions and absorption by forests are in perfect equilibrium by 2050, and where the environment, economy, and society continue to grow in harmony.

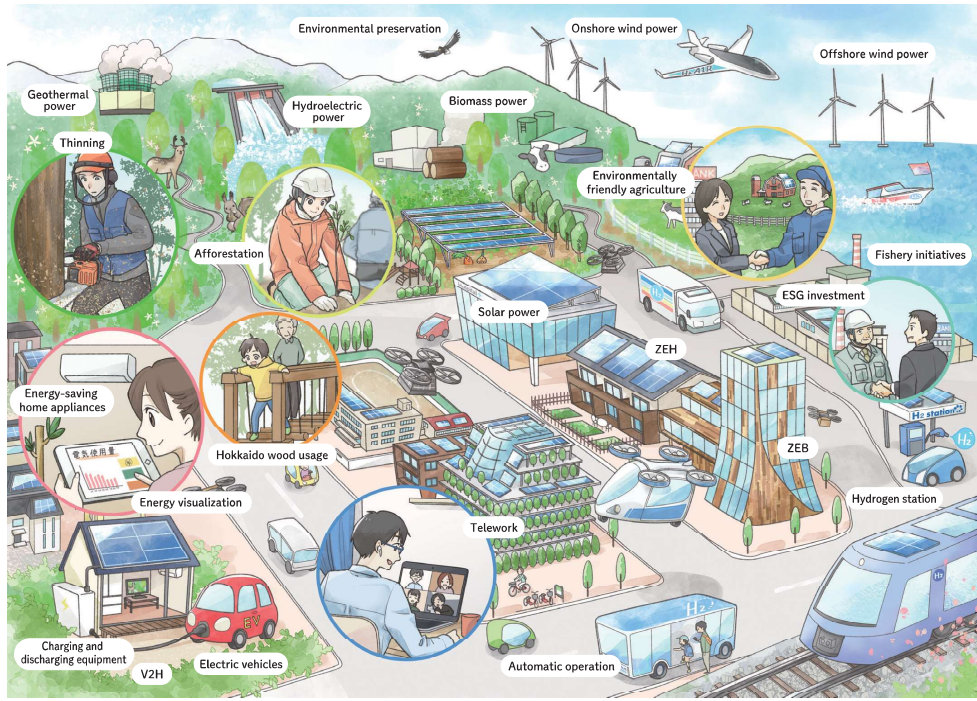


Illustration: Yu Aiba (Winner of the 2nd Northern Manga Grand Prize)

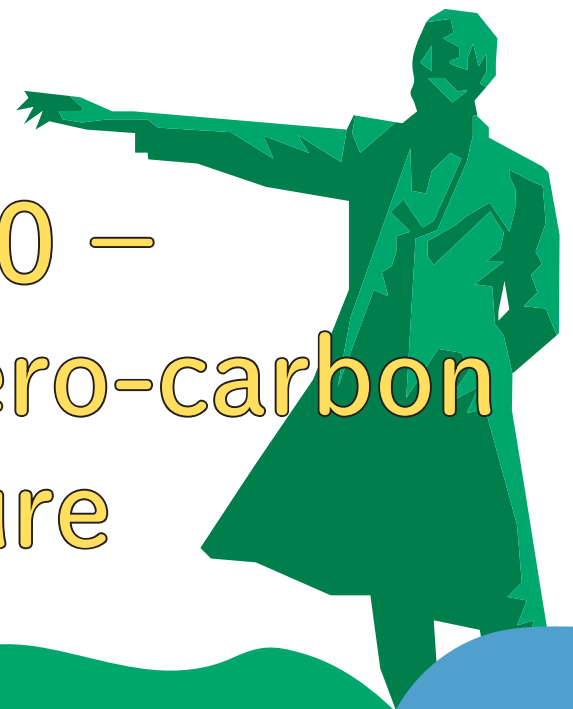


## Hokkaido: Expanding Possibilities

# Zero Carbon Hokkaido

Hokkaido has vast land and abundant natural energy resources. Hokkaido possesses the greatest potential for the introduction of renewable energy sources in Japan. Now is the time to reduce CO<sub>2</sub> emissions!

2050 –  
A zero-carbon future





# ZERO CARBON HOKKAIDO

## Hokkaido's Goals

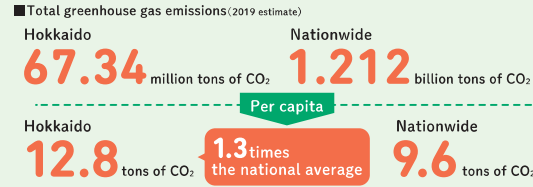
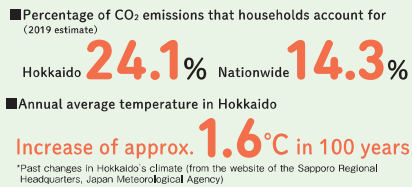
Compared to 2013, we aim to reduce emissions of greenhouse gases such as CO<sub>2</sub> by the following:



In order to achieve these goals, we need to shift our lifestyles and business styles to those suitable for decarbonization.

## Hokkaido's Current Situation

Understanding the impact of climate change on Hokkaido is the first step toward zero carbon.

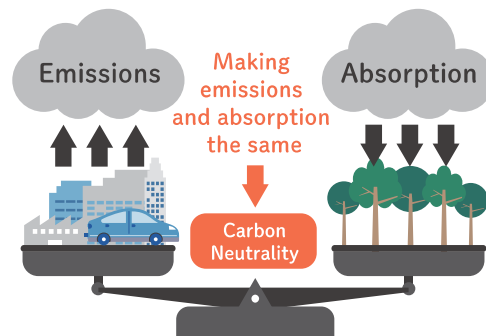


## What is Zero Carbon Hokkaido?

In March 2020, Hokkaido declared its goal of achieving carbon neutrality greenhouse gas emissions by 2050, ahead of the rest of Japan.

Hokkaido will achieve Zero Carbon Hokkaido in which the environment, economy, and society continue to grow in harmony.

Zero carbon is defined as the amount of greenhouse gases emitted by human activities equaling the amount absorbed by forests, etc., resulting in carbon neutrality.



The Future with Zero Carbon Hokkaido

Decarbonization

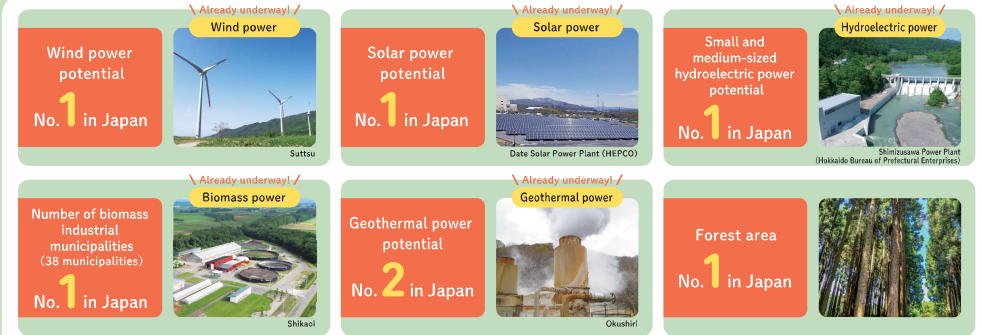
Economic revitalization

Sustainable community development

Simultaneous development

## Unleashing the hidden power of Hokkaido!

Hokkaido has the greatest potential for creating renewable energy in Japan.



5 areas in Hokkaido have been selected by the government as Decarbonization Leading Areas (Ishikari City, Kamishihoro Town, Shikaoi Town, Sapporo City, and Okushiri Town), the most in Japan (as of November 1, 2022).

Efforts to use local resources such as local timber, rice husks, and hot spring heat are also underway in Hokkaido.

\*Wind power, solar power, small and medium-sized hydroelectric power, and geothermal power are from the Renewable Energy Potential System (REPOS), March 2022 Revised Version (Ministry of the Environment), \*Biomass industrial municipalities are as of January 12, 2023 (Ministry of Agriculture, Forestry and Fisheries) \*Forest area is from the Statistical Abstract of Forest and Forestry 2022 (Forestry Agency).

### Maximum introduction and use of renewable energy | Shift in lifestyle | Securing CO<sub>2</sub> absorption

- Maximum introduction and use of renewable energy:** With the development of submarine power transmission cables, renewable energy will expand significantly. Boosting offshore wind power promotion. Utilizing Hokkaido's strengths and renewable energy to attract data centers as well as digital and decarbonization related companies. Development of digital infrastructure such as submarine communication cables.
- Shift in lifestyle:** Utilizing local resources locally, making the community more resilient to disasters, and revitalizing the local economy through local production and consumption of energy.
- Securing CO<sub>2</sub> absorption:** Highly insulated and airtight northern-style housing, next-generation automobiles, the 3Rs and other shifts to a decarbonized lifestyle. Forestation and use of Hokkaido timber, blue carbon in the oceans, and more to ensure CO<sub>2</sub> absorption.

- Revitalizing the economy
- Creating local employment
- Safe and comfortable living with peace of mind
- Increasing the appeal of local forests

We can improve the lives of everyone in Hokkaido by promoting zero carbon emissions.

### Practice Zero Carbon at home today

**Refrigerator** Use the eco-friendly mode and don't overload it with food.

- Use a moderate temperature setting and make use of the eco-friendly mode.
- Remove items that can be stored at room temperature. \*Be aware of food spoilage.

Annual electricity bill  
Save **1,360** yen

Annually  
Energy savings of 43.84 kWh of electricity  
Reduction of 21.4 kg of CO<sub>2</sub>

Comparison of refrigerators full of food and half full

**Water heater** Don't needlessly leave the shower running.

- One minute of showering uses 12 liters of water. If a family of four showers for four minutes each, it is almost the same as one full bathtub.

Annual gas bill Save **2,070** yen | Annual electricity bill Save **1,140** yen

Annually  
Energy savings of 12.78 m<sup>3</sup> of gas  
Reduction of 28.7 kg of CO<sub>2</sub>

When the time to run 45°C hot water is reduced by one minute

\*Created based on the Ministry of Economy, Trade and Industry website ([https://www.enecho.meti.go.jp/category/saving\\_and\\_new/saving/](https://www.enecho.meti.go.jp/category/saving_and_new/saving/)) Energy Saving Portal Site