Fukushima Prefecture
Japan's Front Runner
in Renewable Energy

Dr. Kinya Sakanishi

Managing Director
EnergyAgency.FUKUSHIMA

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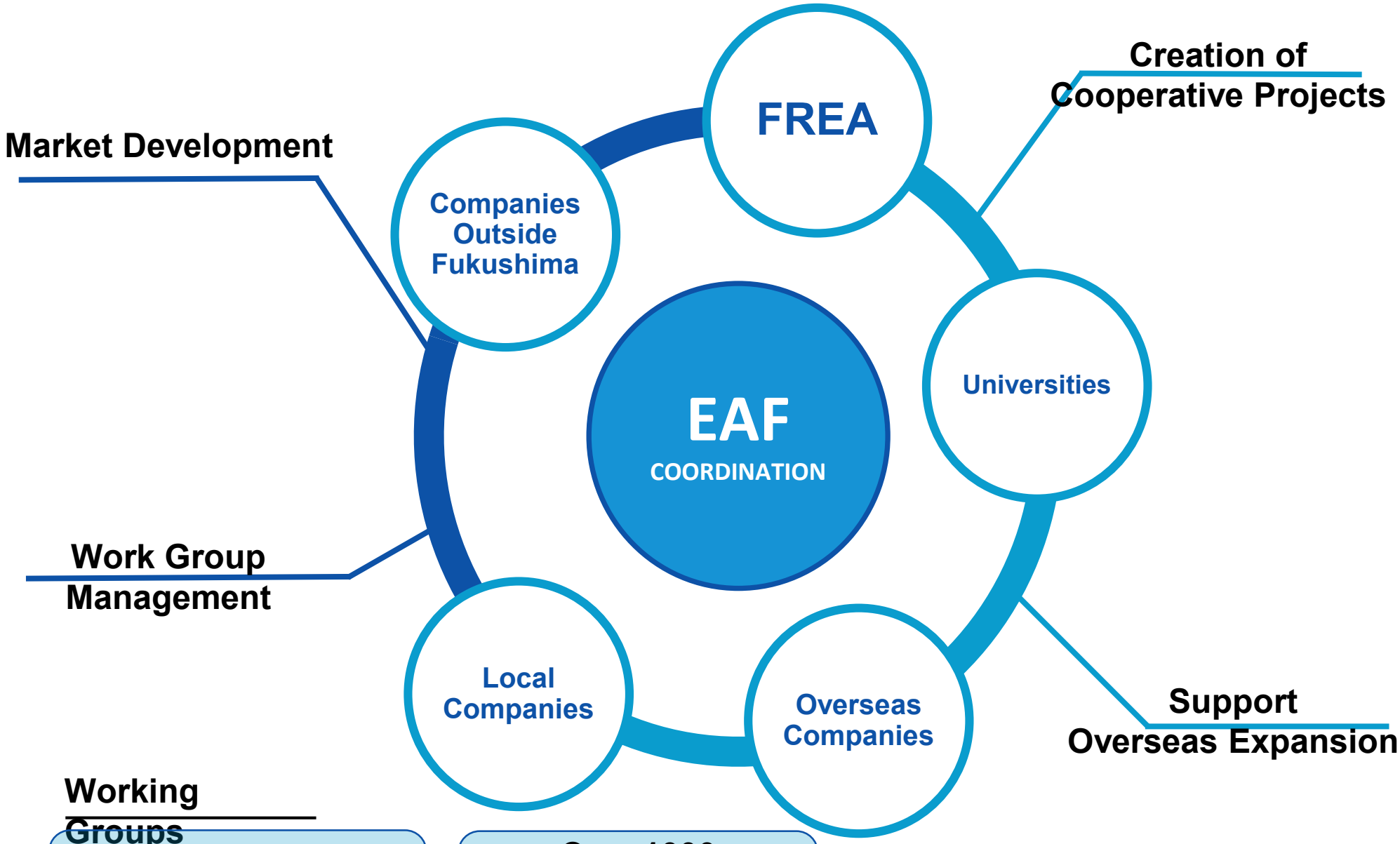
In the last 10 years, Fukushima has built up an active network across all areas of renewable energy and hydrogen.



Working Groups

Started in **2012** with **330 members**

Over **1000 members** in **2024** across **6** groups.

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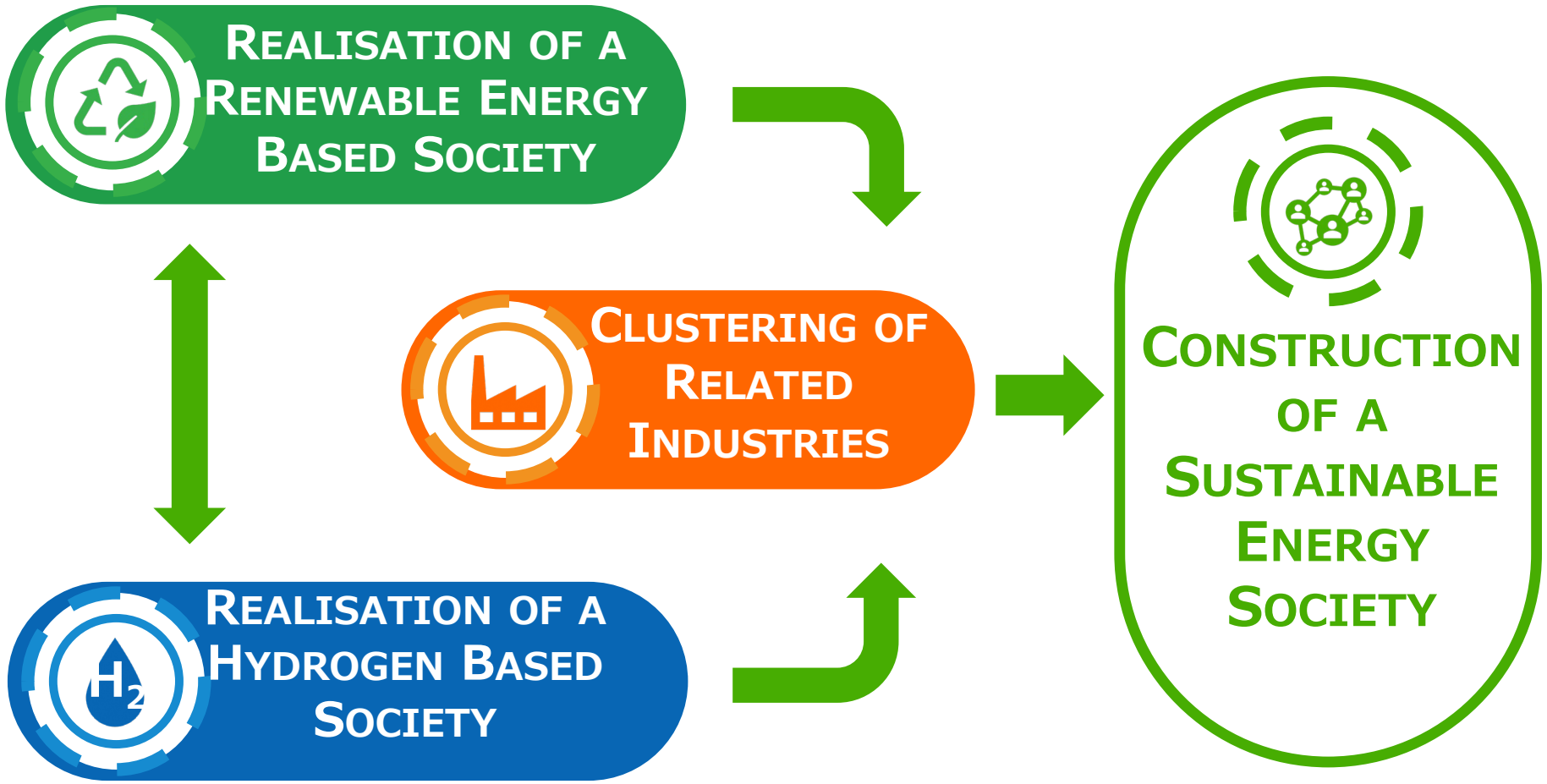
Fukushima Renewable Energy Goals



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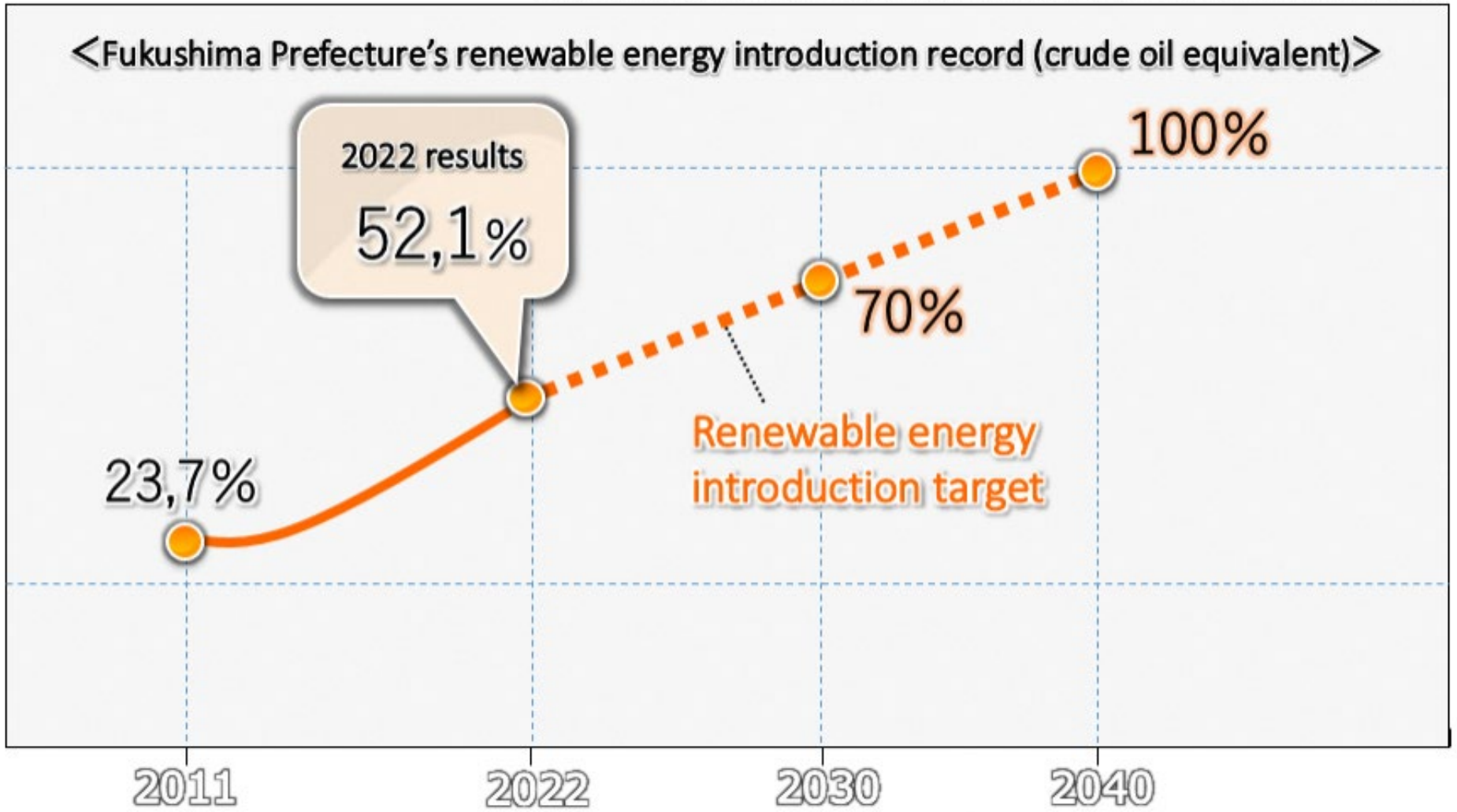
Aiming to become a pioneer in renewable energy

Fukushima has set the goal of meeting the equivalent of 100% of it's energy needs from renewables by 2040.

https://www.pref.fukushima.lg.jp/uploaded/attachment/594085.pdf



Commerce, Industry and Labour Department, Fukushima Prefectural Government

Japan's Hydrogen & Renewable Energy Strategy For a Next Generation Energy Society

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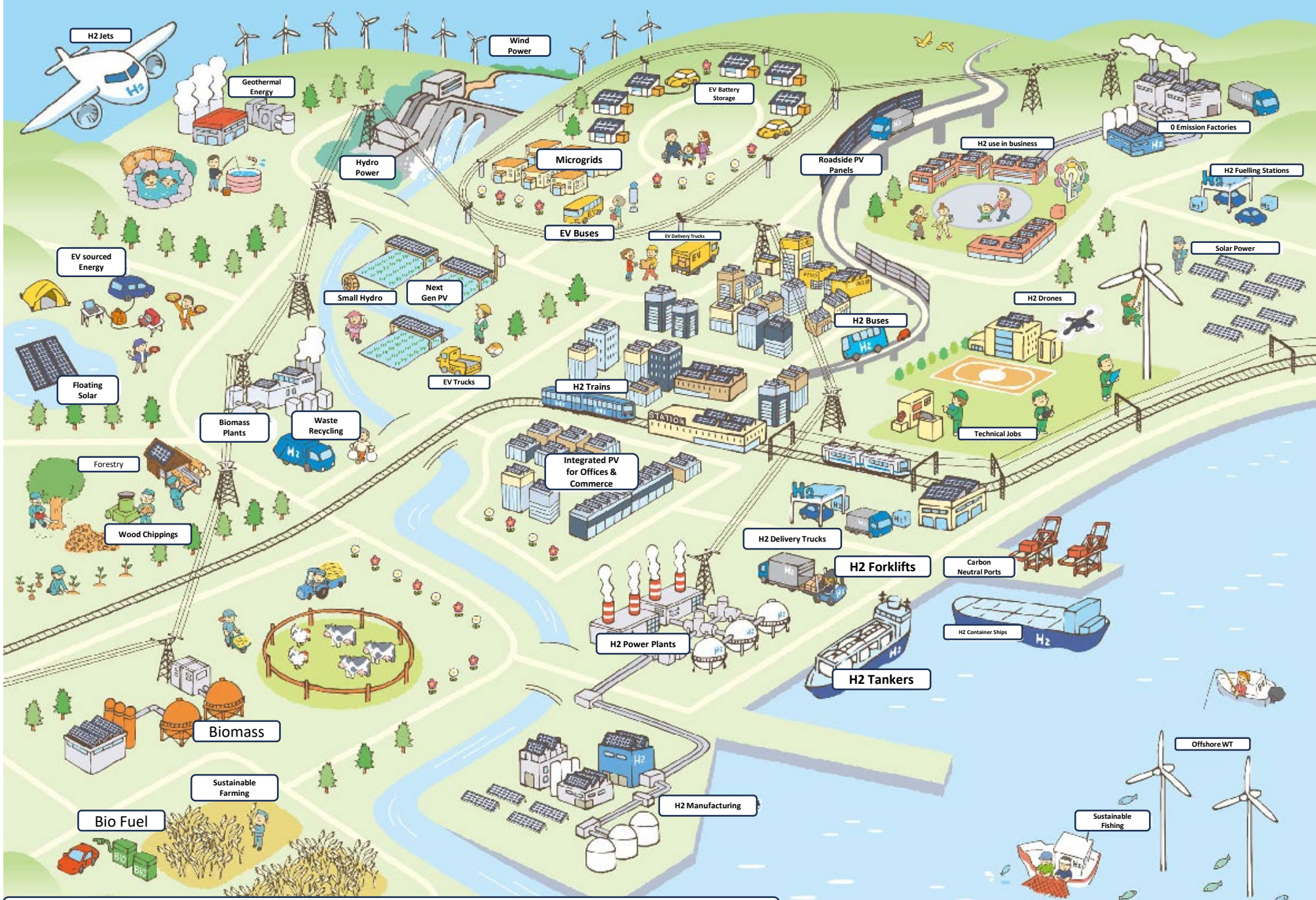
JAPAN'S VISION FOR



An image of an energy society making efficient use of renewable energy and water resources

Source: Ministry of Economy, Trade and Industry (METI)

Fukushima as Japan's Renewable Energy and Hydrogen Testbed

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Fukushima Prefecture promotes participation between local and overseas companies. Come join us in developing innovative technologies.

FREA

Japan's only national research institute specialising in renewable energies.

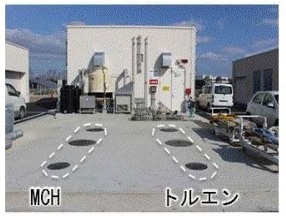
Conducting ground breaking research in both national and global research projects in partnership with local business.

To promote the growth of a domestic O&M industry, FREA's Wind Energy Research Lab holds workshops and seminars with overseas partners.

2022 O&M Workshop

Hydrogen Research Facilities at FREA

Electrolyzer



Hydrogen Careers

Combustion Engine

H^2

FREA's Hydrogen Energy Research Lab is one of Japan's most advanced and is working with local companies to develop a robust hydrogen infrastructure.

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369 FCVs
(@Jan.2023)

On-Site Green
Hydrogen station

Soma IHI Green Energy Center

Smart community
using Hydrogen

Pure hydrogen fuel cell in
Kashima

Hot & Cold Foods Van

Hydrogen Station
(Open all year round)

Pure Hydrogen Fuel
Cell in Public Park

Fukushima City

Soma City

Fukushima Renewable Energy
Institute, AIST (FREA)

Hydrogen Station

Motomiya
City

Tamura City

Namie Town

Koriyama
City

Naraha
Town

Electrolyzer
H2 Furnace

Hydrogen Station

Shirakawa City

Iwaki City

H2 Boiler

60 FC Trucks

FUKUSHIMA HYDROGEN ENERGY RESEARCH FIELD

Fukushima Hydrogen Energy
Research Field (FH2R)

Pure hydrogen fuel cell in J-Village

Hydrogen station

FC Bus

- Research Base
- Hydrogen Station
  FC Mobility
- Pure hydrogen fuel cell

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Fukushima Prefecture is at the heart of Japan's transition to a carbon neutral society built on hydrogen.

PILOT PROJECTS

Source: TOYOTA Motor Corporation (https://global.toyota/jp/newsroom/corporate/35386895.html)

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FH2R serves as a demonstration in the conversion/storage and use of hydrogen from excess power in line with increasing introduction of renewable energy.

Opened: 7th of March, 2020.

Power Source: 20MW Solar

Electrolyser Manufacturer:

AsahiKASEI

Operator:

TOSHIBA

Source: New Energy and Industrial Technology Development Organization (NEDO)

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Thanks for listening!