

FUKUSHIMA **PREFECTURE JAPAN**

E-WORLD **ENERGY&WATER** **2026**



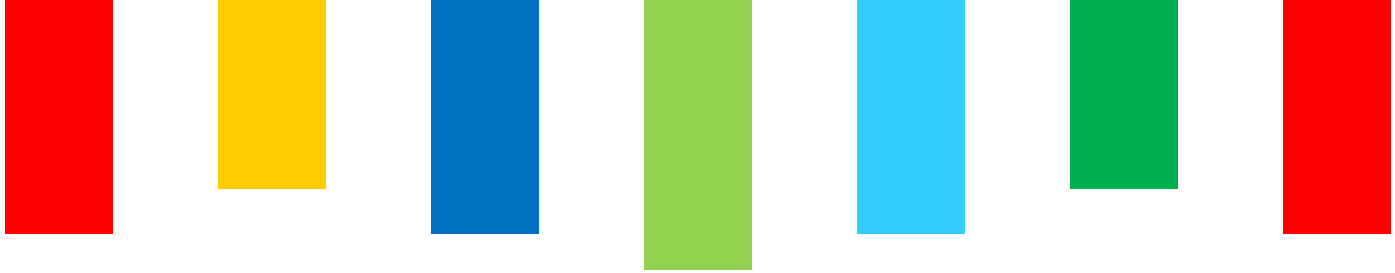
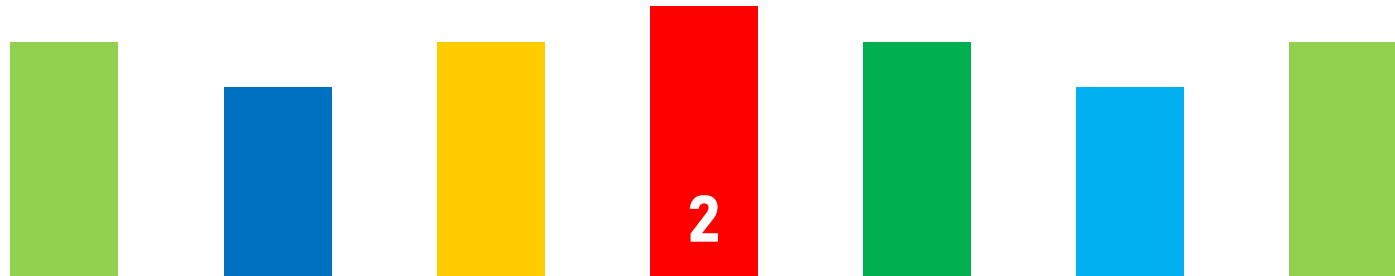


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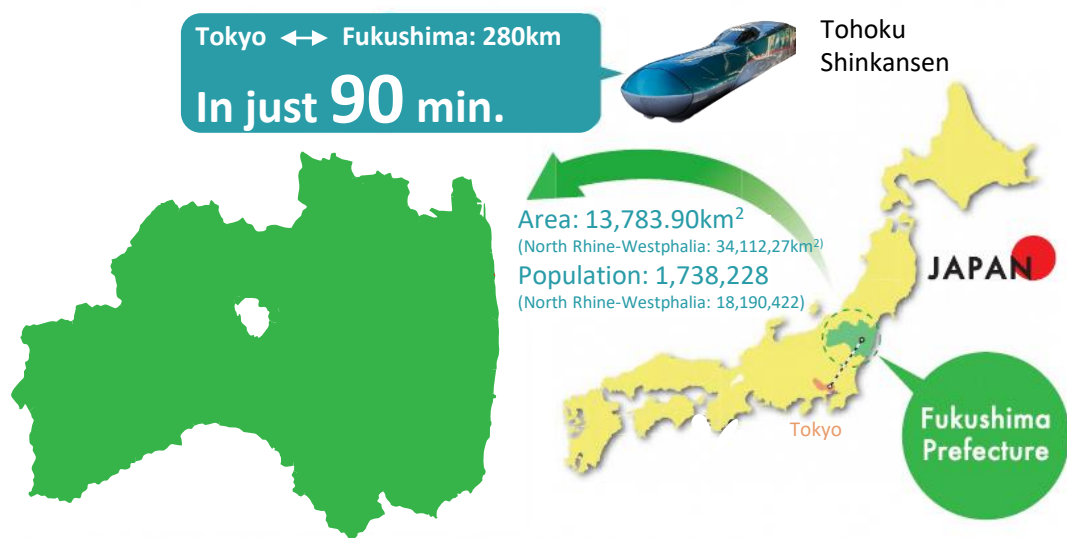
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Come visit Fukushima!

Fukushima is located in Japan's Tohoku region and is its third largest prefecture in Japan. You can reach Fukushima in about minutes from Tokyo via the Shinkansen bullet train. Our prefecture is rich in resources such as solar power, wind power and biomass, and has high potential for renewable energy.

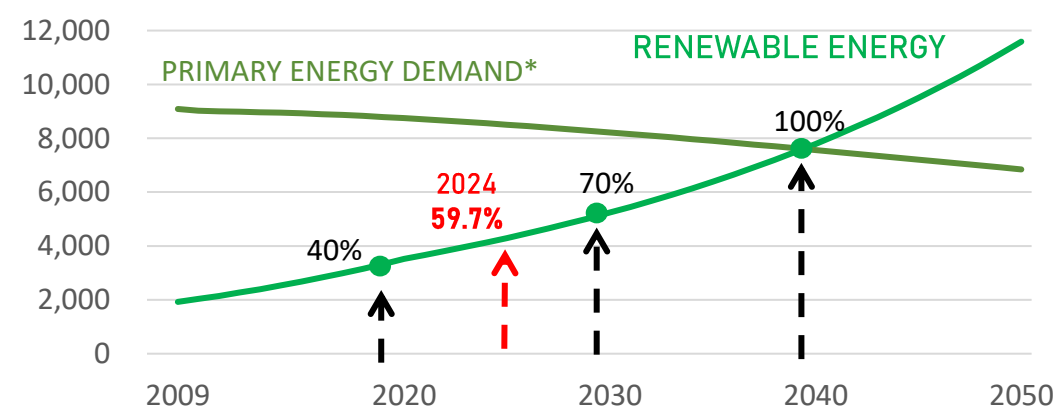


Commerce, Industry and Labour Department, Fukushima Prefectural Government



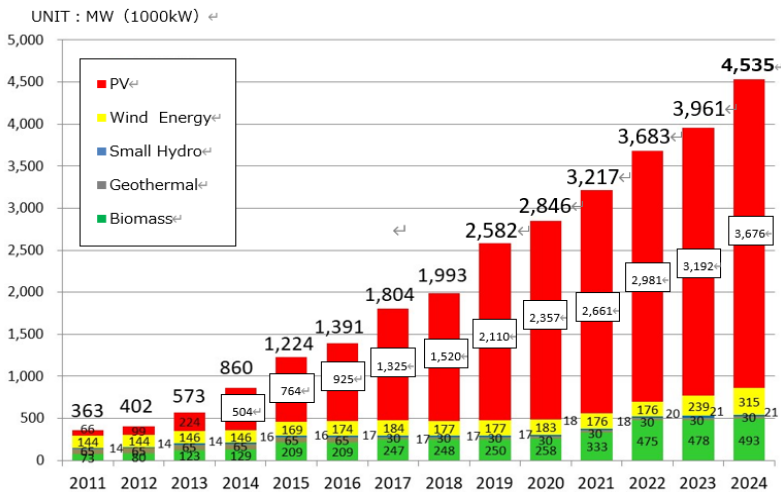
Fukushima's Renewable Energy Goals

Fukushima Prefecture aims to become "a frontrunner in the field of renewable energy" and places the promotion of renewable energy as a pillar of its reconstruction plan (The Fukushima Revitalization Plan). The prefecture is now working towards the target of covering 100% equivalent of the prefecture's energy demand with introducing renewable energy by around 2040.



*The term “Primary energy demand” includes the loss of energy during power generation and conversion and covers the electricity needs of Fukushima Prefecture.

Power Expansion



	2011	2024
PV	66MW	3,676MW (55times)
Wind Energy	144MW	315MW (2.1times)
Small Hydro	14MW	21MW (1.5times)
Geothermal	65MW	30MW (0.4times)
Biomass	73MW	493MW (6.7times)

Fukushima's Renewable Energy Vision

Fukushima Prefecture set up the “Fukushima Renewable Energy Promotion Vision”, which aims to promote the introduction of renewable energy while also fostering new industries and creating jobs.

To implement the vision, the prefecture has set up the “Ladder of Development Plan” and been implementing various kinds of projects based on the plan.



Fukushima Renewable Energy Research Association



The Fukushima Renewable Energy Research Association consists of 1,090 members including companies, universities, and organizations from the renewable energy industry. Its aim is to develop collaborative R&D among the members by holding networking events, seminars and study tours.



Study Group for Promotion of Renewable Energy Related Industries

Research and Development



Fukushima Renewable Energy Institute, AIST (FREIA)

AIST established the Fukushima Renewable Energy Institute in Koriyama, Fukushima Prefecture in April 2014, to promote R&D in the field of renewable energy.

The Fukushima Renewable Energy Institute, AIST (FREIA) has two basic missions:



Photo courtesy of the National Institute of Advanced Industrial Science and Technology (AIST)

The promotion of R&D in the field of renewable energy, which is international research institution; and to contribute to industrial clusters and reconstruction. The new institute was established as a novel research base to develop innovative technologies in collaboration with domestic and international partners.

Fukushima Hydrogen Energy Research Field



The Fukushima Hydrogen Energy Research Field (FH2R), a national project is a large-scale hydrogen production facility, located in Namie Town.



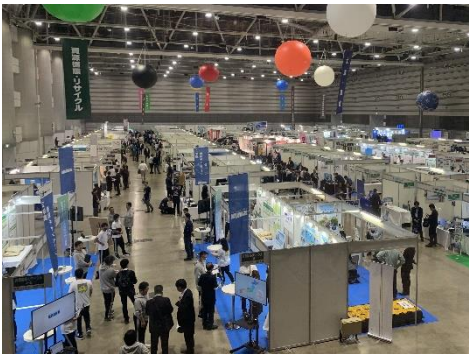
Photo courtesy of Toshiba Energy Systems & Solutions Corporation

The FH2R produces 10,000kW hydrogen per year from PV, which is then transported and stored. Hydrogen from FH2R is transported once a month to a hydrogen station in Tokyo via hydrogen trailer.

Renewable Energy Industrial Fair (REIF Fukushima)



The Renewable Energy Industrial Fair (REIF) Fukushima is one of the biggest exhibitions of the renewable energy related industry in Japan. Delegations from North Rhine-Westphalia (NRW), Germany and Basque country in Spain exhibited at REIF Fukushima 2025 to expand their business in Japan.



14th Renewable Energy Industrial Fair
REIF Fukushima 2025

Date: 15th & 16th OCTOBER 2026 (tntv)

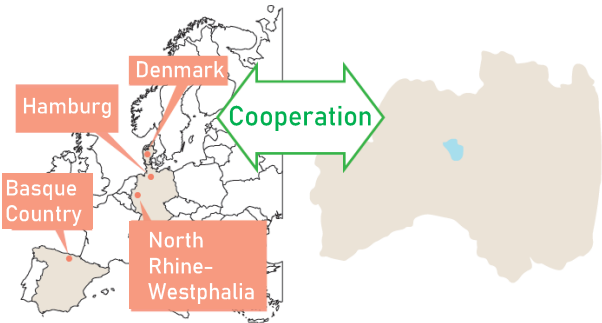
Venue: BIG PALETTE FUKUSHIMA
2-52 Minami, Koriyama City, Fukushima Prefecture



Partnership with Countries Overseas

In order to promote the introduction of renewable energy and the development and accumulation of related industries,

Fukushima Prefecture has been advancing economic exchange with leading countries and municipalities of renewable energy, such as the States of North Rhine-Westphalia (NRW) and Hamburg in Germany, as well as Denmark and Basque Country in Spain.



Governor Uchibori (Fukushima) and Minister Neubaur (NRW) at REIF 2024, celebrating the 10th anniversary of Collaboration between Fukushima and NRW



SAKAI CHEMICAL INDUSTRY CO., LTD.

Address: 5-2, Ebisujima-cho, Sakai-ku, Sakai-shi,
Osaka 590-8502, Japan
URL : <https://www.sakai-chem.co.jp/en/>
Contact: Research & Development Division
Email: sales-t@sakai-chem.co.jp

COMPANY OVERVIEW

Sakai Chemical Industry Co., Ltd. is a Japanese materials manufacturer with over 100 years of history, specializing in inorganic-material-based technologies.

Our strategic focus covers three business domains: Environment & Energy, Electronics, and Life Science & Healthcare.

In the Environment & Energy field, we develop materials for hydrogen production and carbon-neutral technologies, leveraging our expertise in inorganic materials, particle synthesis, and carrier design.

OUR PRODUCTS AND SERVICES

- Iridium-Saving PEMWE anode catalyst
- PGM-free Ni-based AEMWE anode catalyst
- High-activity and high-durability Ni-based methanation catalyst
- Cr-free Cu-based hydrogenation and methanol-synthesis catalyst



Catalyst Powder (Example)

WE OFFER

- Advanced catalysts for water electrolysis, CO₂ conversion, and other carbon-neutral applications
- Scalable manufacturing and joint development
- Core expertise in particle synthesis and catalyst design

WE ARE LOOKING FOR

- Electrolyzer, CCM/MEA, and membrane manufacturers
- Energy utilities and gas companies for hydrogen and e-fuels
- EPCs and engineering companies for hydrogen and other hydrogen-utilizing chemical product plants
- Partners for catalyst evaluation and co-development



TOHOKU BOLT MFG. Co., Ltd.

Address: 59 Aza Jari, Kurosuno, Izumi-machi, Iwaki-shi, Fukushima 971-8184, Japan
URL: <https://touhokunedi.com/english>
Contact: Sam (Osamu) KUJIRAI (He/Him)
Email: o.kujirai@touhokunedi.com

COMPANY OVERVIEW

TOHOKU BOLT MFG. Co., Ltd., headquartered in Iwaki, Fukushima, Japan, specializes in hot-forged bolts and fasteners. Founded in 1943, it evolved from rail components for coal mines to supplying railways, construction, heavy machinery, and renewable energy. With 130 employees and all in-house production (material procurement to inspection), we produce bolts up to M110 diameter. Certifications: ISO 9001, 14001, 45001; JIS for key products. Recognized by METI for wind power standards, selected as one of Japan's "300 Vigorous SMEs" and "Regional Future Driving Company." Committed to R&D via "Neji Lab," community engagement, and sustainable practices.

WE SPECIALISE IN

- ◆ "Bolts that hold the future together." Forged bolts ensure safety in infrastructure from railways to component parts for wind power generations.
- ◆ "Certified quality, trusted worldwide." Meet global standards with ISO and JIS.
- ◆ "Invisible, yet indispensable." Backbone of construction, machinery, and renewable energy.

OUR PRODUCTS AND SERVICES

Specializes in hot-forged bolts with all in-house manufacturing system:
forging, heat treatment, machining, and inspection.

WE OFFER

High-strength, reliable, certified fastening solutions for railways, heavy construction, infrastructure, and renewable energy worldwide.

OVERSEAS EXPERIENCE

No overseas bases currently; handles exports from Japan, including Japan-EU EPA.

Official Website



LinkedIn





Yamato Sanko MFG. Co., Ltd.

Address: Shinjuku Mitsui Building 43rd Floor, 2-1-1 Nishi
Shinjuku, Shinjuku-ku, Tokyo, 163-0443 Japan
URL : <https://www.yamato-sanko.co.jp/english/>
Contact: Kenichi Hashimoto
Email: k-hashimoto@yamato-sanko.co.jp

COMPANY OVERVIEW

Founded in 1915, Yamato Sanko Mfg. Co. Ltd. marked its 110th anniversary in 2025. We design, develop, manufacture, and maintain thermal-energy equipment and large-scale plant systems using drying, heat-treatment, and incineration technologies. Applied in over 40 countries, our solutions support industries like new energy, food, chemicals, printing, coating, metals, electronics, mining, construction materials, textiles, pulp/paper, agriculture, forestry, and fisheries—from instant noodles to decarbonization initiatives.

WE SPECIALISE IN

- ✓ Biomass, Hydrogen, Pyrolysis Furnace/Reactor
- ✓ Functional Carbon Materials (Emphasizes carbon functionality; "functional carbons" also acceptable).
- ✓ Sewage/Wastewater Sludge (Sewage sludge is standard, especially for municipal wastewater treatment).



OUR PRODUCTS AND SERVICES

- ✓ design, production and manufacture of industrial dryers
- ✓ production and manufacture of incinerators Design,
- ✓ production and manufacture of heat treatment equipment

WE OFFER

- Joint R&D on drying systems for environmental/industrial uses (sewage sludge to food products) and renewable energy production (e.g., hydrogen) via drying/pyrolysis technologies.

WE ARE LOOKING FOR

- Companies needing drying equipment
- Organizations (universities, research institutes, private firms) planning businesses with pyrolysis/drying tech
- Firms targeting Asian market expansion

OVERSEAS EXPERIENCE

- ✓ With 110 years of history, we have delivered drying systems to ~40 countries, including Europe, Middle East, Africa, Russia, North America, and Asia, with negotiation and installation experience worldwide.

株式会社大和三光製機
YAMATO SANKO MFG. CO., LTD.



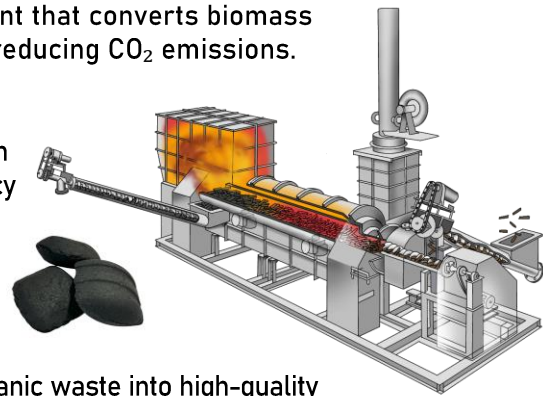
Address: 6F Taisei Building, 1-11-7 Kayabacho,
Nihonbashi, Chuo-ku, Tokyo 103-0025, Japan
URL : <https://ze-energy.net/en/>
Contact: Kohei Matsushita
Email: kohei@ze-energy.net

COMPANY OVERVIEW

ZE Energy is a Japanese clean energy technology company specializing in biomass carbonization solutions that support the EU's Fit for 55 and circular economy policies. We design and supply CE-certified carbonization equipment that converts biomass waste into valuable carbon resources while significantly reducing CO₂ emissions.

WE SPECIALISE IN

- Coal replacement using biomass coke and biomass carbon
- Waste-to-resource solutions aligned with EU climate policy
- Scalable Carbonization Center development
- Measurable and reportable CO₂ reduction projects
- Long-term carbon sequestration through biochar



OUR PRODUCTS AND SERVICES

- Carbonization Equipment (CE Mark certified): Converts organic waste into high-quality charcoal using indirect heating with minimal emissions.
- Biomass Coke & Biomass Carbon: Used as alternative fuels for coal-intensive industries.
- Biochar Solutions: For soil improvement, water purification, and carbon credit generation.

WE OFFER

- Practical solutions to achieve 55% CO₂ reduction targets
- Reduced dependence on fossil fuels and imported coal
- Support for circular economy and waste reduction strategies
- Technology enabling industrial decarbonization without major process changes
- A scalable model adaptable to local EU biomass resources

WE ARE LOOKING FOR

We seek EU-based partners including:

- Local governments and public agencies
- Energy-intensive industries (cement, foundries, manufacturing)
- Fuel trading and energy companies
- Carbon credit and sustainability project partners

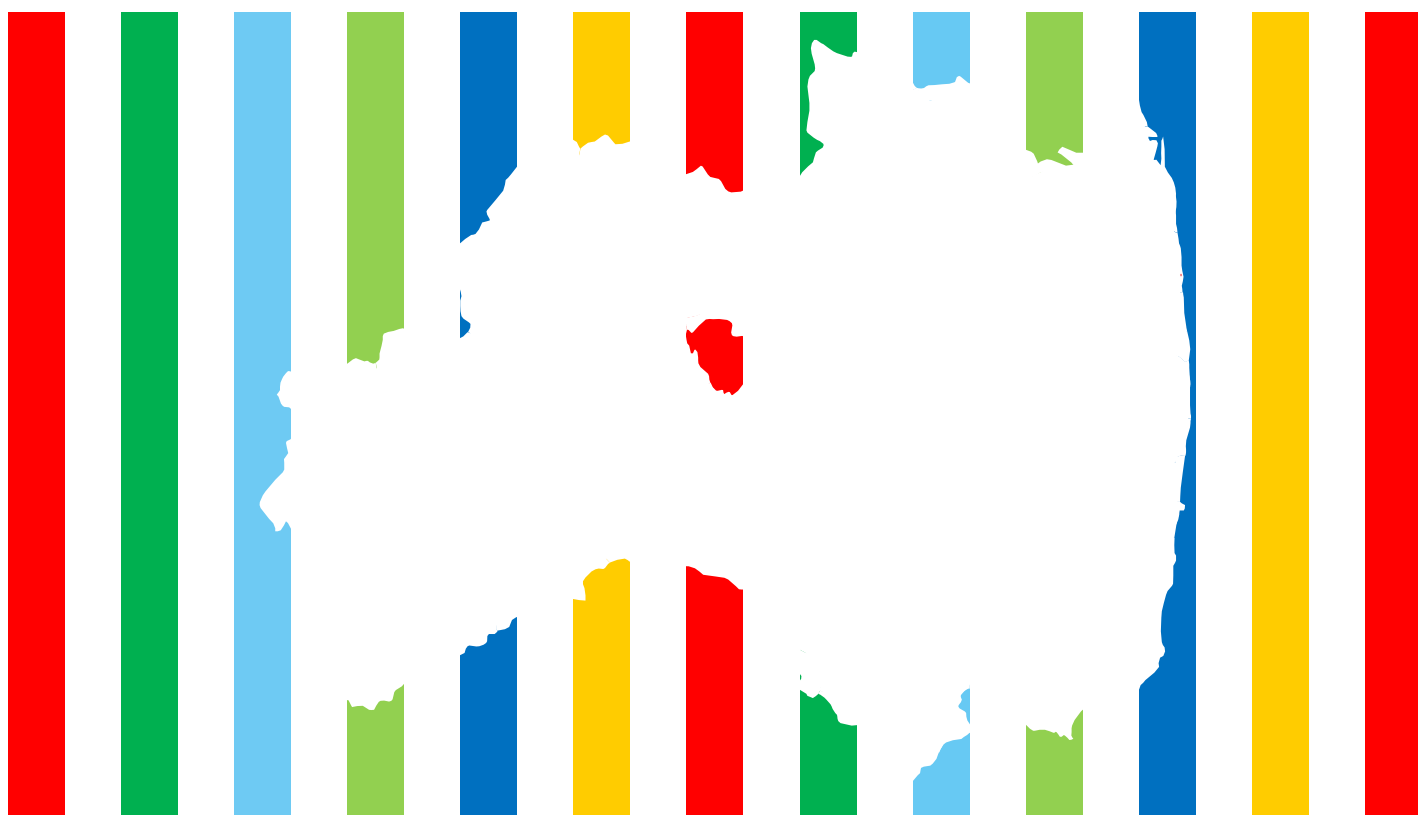
Together, we aim to establish Carbonization Centers across the EU.

OVERSEAS EXPERIENCE

ZE Energy has extensive international experience with projects and partners in Europe and Asia, including Poland, Sri Lanka, Thailand, Vietnam, and Singapore.

Our technology has been adopted in government-backed projects, including coal substitution initiatives under international carbon credit schemes.

These projects demonstrate a scalable and policy-compliant model applicable to the European market.



Fukushima Prefectural Government