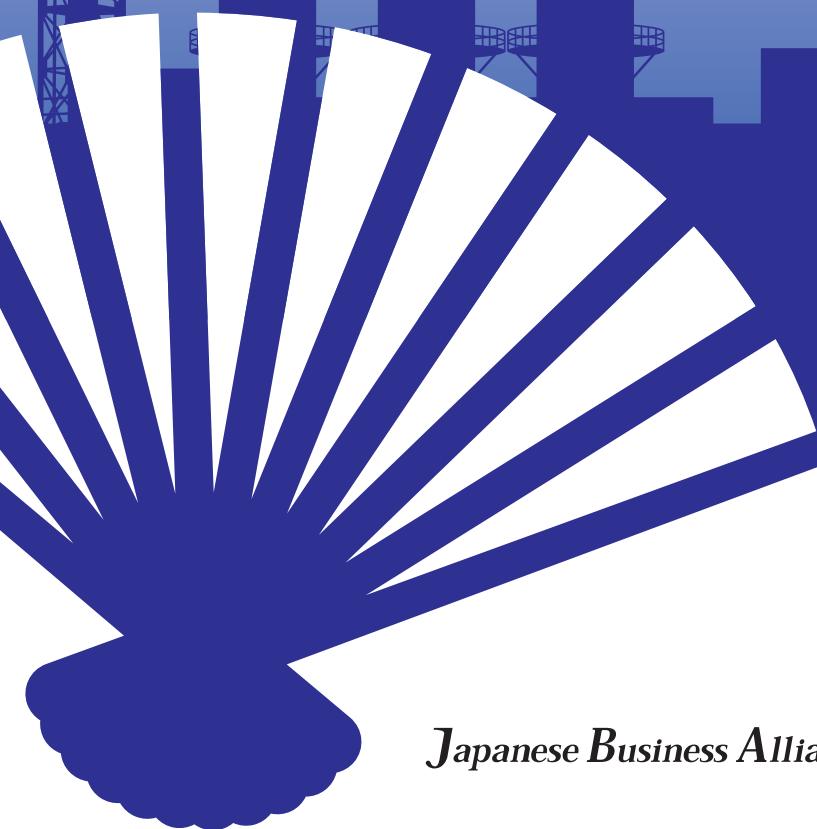


# JASE-World

Providing advanced energy technologies  
from Japanese companies to help you solve  
the energy problems and boost  
the development of your country.



*Japanese Business Alliance for Smart Energy Worldwide*



# Making Goals Achievable

Based on the Paris Agreement, a multilateral international framework for global warming countermeasures, Japan has declared the goal of being a carbon-neutral nation with net zero greenhouse gas emissions by 2050. A key factor in achieving this goal is the use of present, and the development of even more advanced, energy technologies. JASE-W is an alliance of many innovative Japanese companies and the government with the mission of providing these world-leading energy technologies, as well as products, systems and other initiatives, helping countries worldwide achieve the goals of a decarbonized society and a sustainable future toward SDGs.



**Public Private Partnership**



# Your Partner for Effective Solutions

JASE-W makes it possible for you to take advantage of the cutting-edge, reliable technology and expertise of Japanese companies for energy saving measures in your country. The key is to have the public and private sectors working together to solve problems that are difficult for the private sector alone to solve. Many countries have already partnered with JASE-W to solve various national and local energy conservation problems.

# Activities & Case Studies

JASE-W establishes Working Groups (WG) to create and implement innovative ideas and best solutions in the energy field.

## Working Groups

### Zero Energy Buildings



Zero Energy Buildings promotes the idea that energy input and output for buildings should be equal. This can be achieved through energy conservation and the use of renewable energy sources. The ZEB WG organizes seminars and workshops in ASEAN countries to explain and promote the ZEB concept, and participates in the relevant Technical Committee (TC205) within the International Organization for Standardization (ISO).

### Turkey and Black Sea Region



This working group was established with the purpose of exploring energy saving potentials and promoting energy-related projects in this region.

### Waste to Energy



The construction of efficient waste disposal facilities is a vital requirement in many countries, and the WtE WG supports these efforts. It has produced a Handbook for Quality Waste to Energy Infrastructure, a guide for WtE implementation based on the concept of 3E + S: Environmental Protection, Economic Efficiency, Energy and Safety.

### Combined Heat and Power



Another JASE-W focus is the promotion of CHP, or Co-Generation. The CHP WG held an Energy Forum in Indonesia, followed by meetings between the Indonesian Energy Ministry, the Japanese Ministry of Economy, Trade and Industry, and JASE-W with the aim of introducing CHP initiatives.

# Energy Business Forums

Energy Business Forums to introduce JASE-W have been held in many countries through the close cooperation of their energy ministries. These forums lead to in-depth business discussions and have already seen significant results.



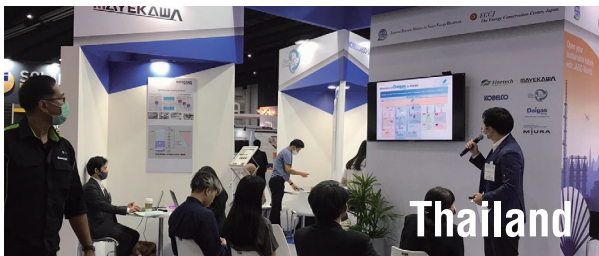
India



Indonesia

# Exhibitions

JASE-W and its members have participated in many international exhibitions on green/smart energy technologies.



Thailand

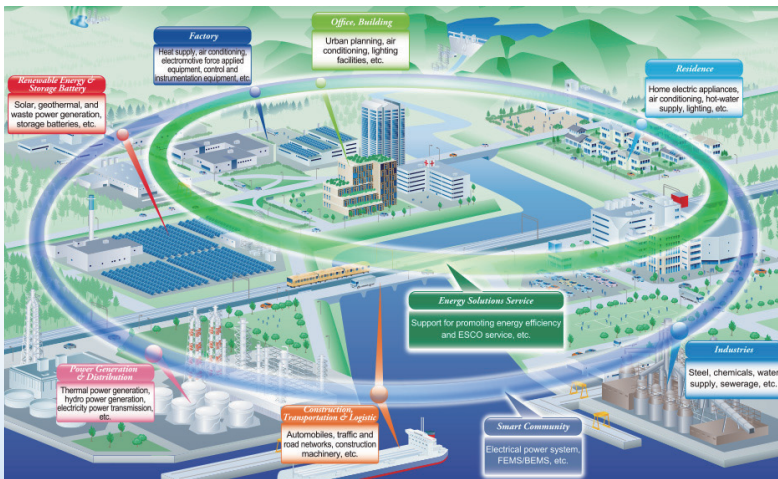


WFES

# Products & Technologies Book

Japanese Smart Energy Products & Technologies is a compilation of smart energy products and technologies available from JASE-W members. These are classified into eight categories: Factory, Industry, Office Building, Residence, Construction/Transportation & Logistics, Power Generation & Distribution, Renewable Energy, and Energy Solutions.

The book was revised in 2020 to include new categories such as TOP TENs and will be further expanded in 2021 to include a section on BPs (Best Practices). It is a handy guide to Japan's best available technologies as well as best practices, and is available in several languages.



Conceptual map and classifications

**Realization of Comfortable & Energy-Saving Environment by PMV Control with AI Technology**

**Introduction**

- In June 2020, we introduced our technology into 2 supermarkets in Japan and achieved the creation of further comfortability and energy-saving result in the following systems.
- Control of the energy environment.
- ① Ventilation System
- ② Displacement Control System (Displacement Air Conditioning Unit) (Reducing 20% of air conditioning load, and 20% of total air-conditioning load)
- ③ Risk Conditioning System

**Basic Concept of the Technology**

The system scheme is to realize more energy-efficiency by replacing previous air conditioning units with displacement air conditioning units as a method of removing humidity, which takes the most of energy during the summer season.

**Visual summary of the system as below:** adopted displacement air conditioning units to have positive-pressure ventilation inside the supermarkets. By absorbing the dehumidified air made by the displacement system from the bottom of the air conditioning units were realized. "High sensible heat" air conditioning units as main specification were used and return regeneration cooling system was adopted. To accelerate the cooling operation made of the supermarkets, PMV is adopted, and through auto-controlling by EMS, a comfortable and energy-efficient shop environment has been realized.

Best Practice case study



QR code



# Partnership

Japan's leading technology companies will help solve your country's problems.


## Corporate Members

 T. Chatani & Co., Ltd.

 AGC

 EX Research Institute Ltd.  
Environmental and Regional Planning, Research and Consulting

 Hitz  
Hitachi Zosen

 JFE Steel Corporation

 KURITA

 MITSUBISHI ELECTRIC  
Changes for the Better

 MIZUHO

 NIPPON STEEL

 SANKEN  
ENVIRONMENTAL ENGINEERING

 Takasago Thermal Engineering Co., Ltd.


 TLV

 Toyo Engineering Corporation

 YOKOGAWA

 EY  
Building a better working world

 HITACHI  
Inspire the Next

 JFE Engineering Corporation

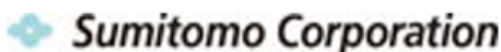
 Make Next.  
KYUDENKO

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 NGK INSULATORS, LTD.

 NIPPON STEEL ENGINEERING

 SEKISUI HOUSE

 Sumitomo Corporation

 DAIKIN

 Fuji Electric  
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 Hokuriku Electric Power Company

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 Mitsubishi Corporation

 Mitsui Chemicals

 Pursue Environmental Engineering  
NIPPON PMAC Co., Ltd.

 TEPCO

 株式会社アースクリーン東北  
Earth Clean

 Deloitte. トーマツ.  
デロイトトーマツ

 Green Power  
GreenPowerInvestmentCorporation

 Kansai Electric Power  
power with heart

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 MIJURA

 NIKKEN  
EXPERIENCE, INTEGRATED

 NIPPON KOEI

 OSAKA GAS

 SUMITOMO ELECTRIC  
Connect with Innovation

 TOSHIBA  
Leading Innovation >>>

## Association Members

Japan Association of Energy Service Companies  
The Engineering Advancement Association of Japan  
Japan Far Infrared Rays Association  
Engineering and Consulting Firms Association, Japan  
Kansai-Asia Environmental and Energy-Saving Business Promotion Forum  
Kansai Economic Federation  
The Energy Conservation Center, Japan  
Japan Coal Frontier Organization  
Japan Photovoltaic Energy Association  
The Federation of Electric Power Companies of Japan  
Japan Electronics and Information Technology Industries Association  
Japan Chemical Industry Association  
Japan Machinery Center for Trade and Investment  
Japan Weather Association  
KEIDANREN (Japan Business Federation)  
Japan Construction Material & Housing Equipment Industries Federation  
The Japan Iron and Steel Federation  
The Japan Electrical Manufacturers' Association  
Heat Pump & Thermal Storage Technology Center of Japan  
Overseas Environmental Cooperation Center, Japan  
Global Environment Center Foundation

## Supporters (public sectors entities)

Ministry of Economy, Trade and Industry  
Ministry of Foreign Affairs of Japan  
Ministry of the Environment  
Japan International Cooperation Agency  
New Energy and Industrial Technology Development Organization  
Japan External Trade Organization  
Nippon Export and Investment Insurance  
The Institute of Energy Economics, Japan  
The World Bank, Tokyo Office  
International Finance Corporation, Tokyo Office  
Asian Development Bank Japanese Representative Office  
Japan Bank for International Cooperation  
Clean Authority of TOKYO 23 cities  
Development Bank of Japan Inc.  
City of Kitakyushu  
The Economic Research Institute for Northeast Asia  
European Bank for Reconstruction and Development Representative Office in Tokyo  
Incorporated Administrative Agency, Nippon Export and Investment Insurance

## Area Advisor

Trade and Development Bank of Mongolia, Tokyo Representative Office



Japanese Business Alliance for Smart Energy Worldwide

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ECCJ

The Energy Conservation Center, Japan

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