

# Cooperative Activities of ZEB Dissemination in ASEAN Members of States

Japanese Business Alliance for Smart Energy Worldwide

Manager Katsuhiko Yamamoto



*Japanese Business Alliance for Smart Energy Worldwide*

# PROFILE

- **JASE-W** was established in 2008 with the support from **METI** (Ministry of Economy, Trade and Industry of Japan) and Japanese Business and Industry Association: **KEIDANREN** (Federation of Japanese Economic Organizations).
- Its mission is that Japan and Japanese business industries will make specific contribution to the global environment and carbon reduction by disseminating innovative and energy-efficient technologies and products to the world.

**Japanese Business  
Alliance for  
Smart  
Energy  
- Worldwide**



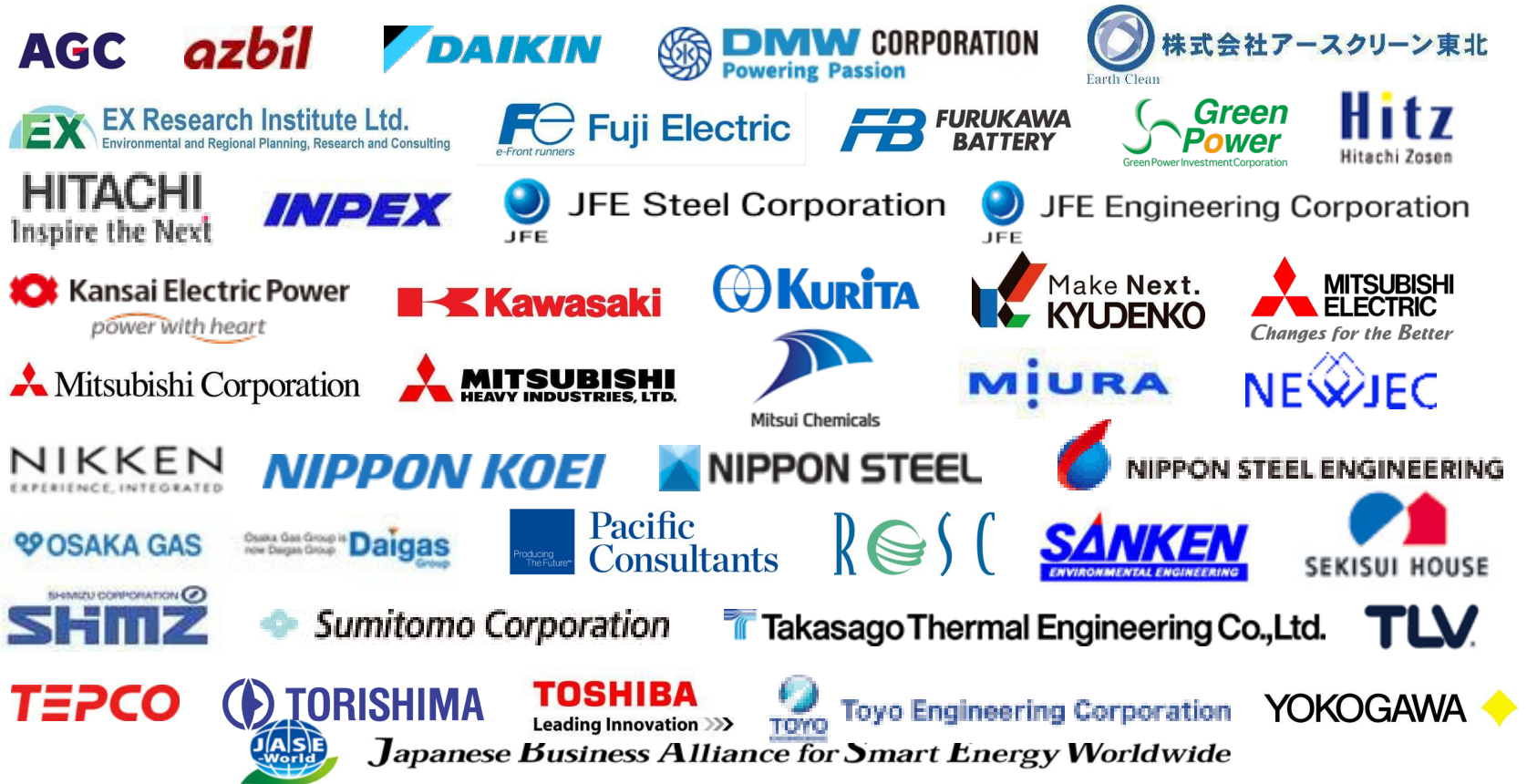
**JASE-W Chairman, Mr Masakazu Tokura**  
(Chairman of KEIDANREN and  
SUMITOMO CHEMICAL)



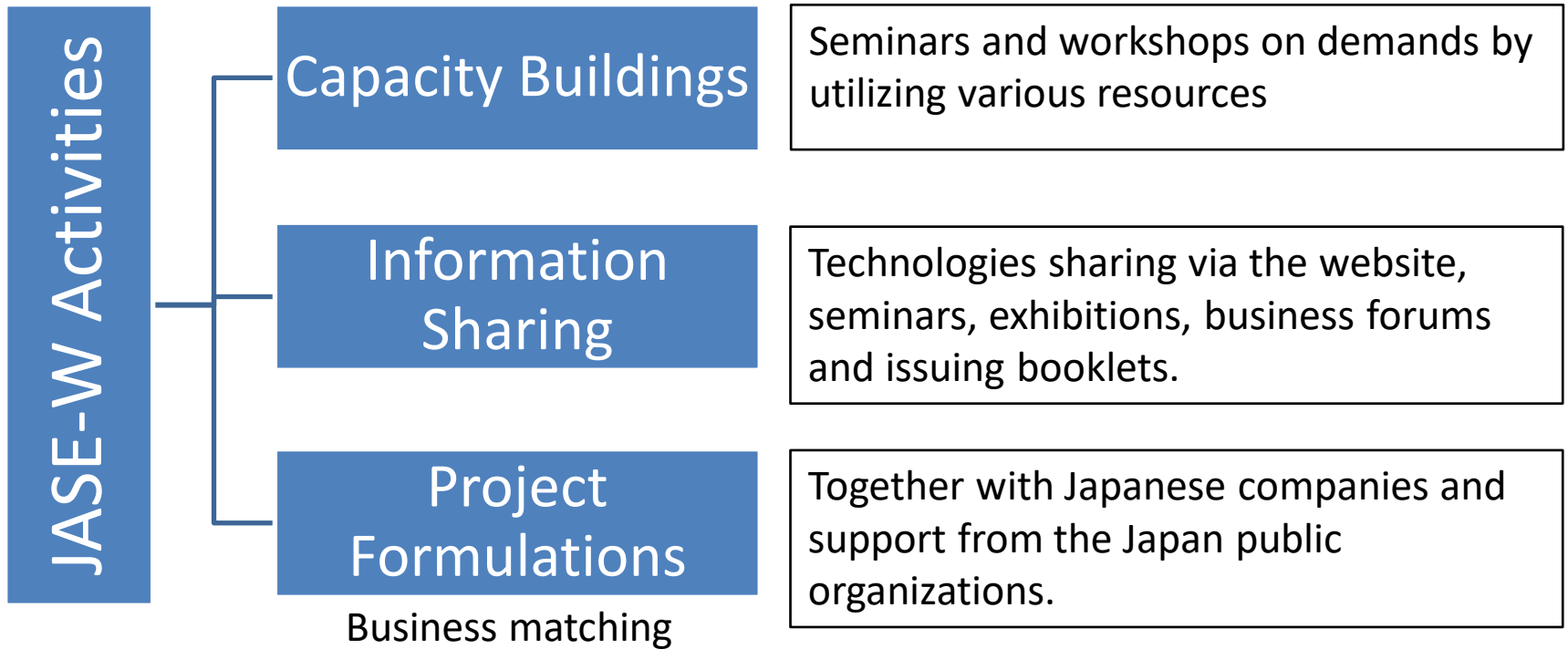
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# Member Companies

➤ Currently 42 of Japanese companies are the members of JASE-W.



# What is JASE-W doing?



# ZEB SOLUTION

- ZEB - (net) **Zero Energy Building**- is a concept that energy input and output for buildings should be ultimately equal through energy conservation and renewables.
- JASE-W set up a working group of ZEB and is holding Workshops and Seminars on ZEB for ASEAN countries. Also it facilitates to make ISO global standard on ZEB and it has successfully enacted Technical Specification since Sept. 2021.



Signing MoU for ZEB with SEDA



ZEB Concept Seminar



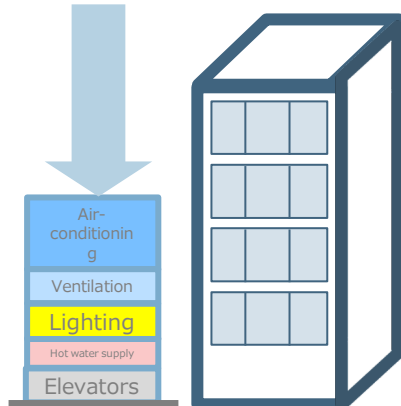
ISO TS23764

# Step-by-Step Approach toward ZEB

The concept of ZEB has been expanded to “ZEB series” according to actual conditions. First step is to aim for super energy efficient buildings which are defined as “ZEB ready”, and then aim for “Nearly ZEB” and “(net) ZEB” which is a step-by-step approach. → **ZEB family Concept**

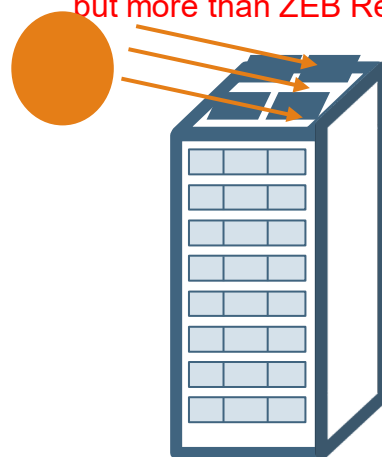
## ZEB Ready

(Significant energy saving **more than 50%** from **reference point**)



## Nearly ZEB

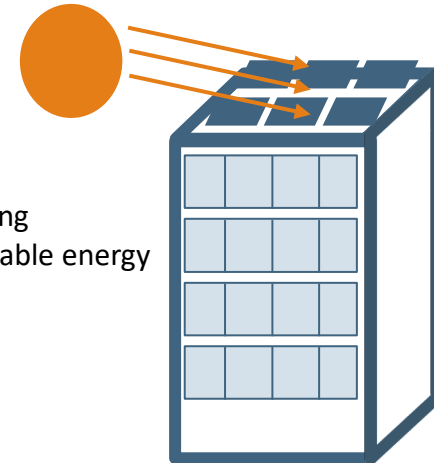
(Net energy saving (RE) **not reach 100%** including% **but more than ZEB Ready**)



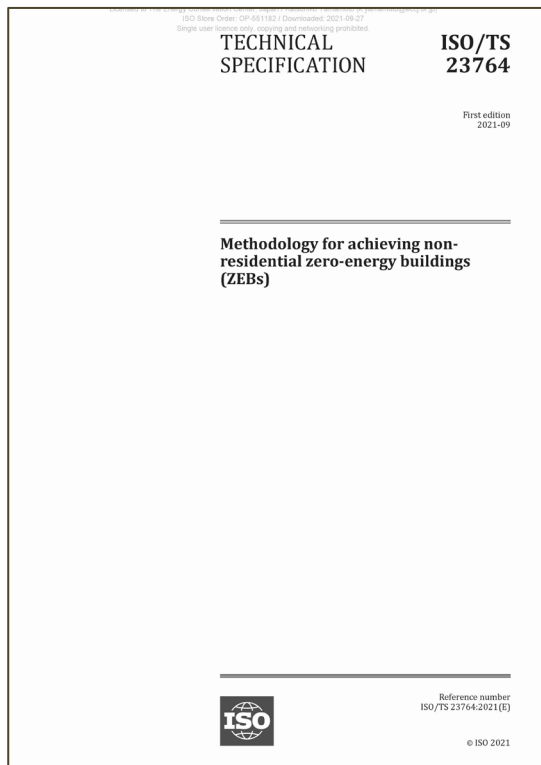
Including  
Renewable energy

## (net)ZEB

(Net energy saving (including RE) **of 100% or more**)



# ISO TS23764 update



## ISO TS23764

### Methodology for achieving non-residential zero-energy buildings (ZEBs)

Issued on Sept. 2021

Now updating is ongoing

The purpose of the standardization is to improve practicability for ZEB by promoting the “ZEB family concept” which allows a “Step-by-Step Approach” to net zero energy buildings and to increase dissemination rate by realizing ZEB family buildings to satisfy part of all the requirements necessary to achieve (net) ZEB





# Collaboration with Hanoi University of Civil Engineering

## How to disseminate Zero Energy Building in Vietnam



Jan.12<sup>th</sup> 2024  
MoU concluded bet. Hanoi University and  
JASE-W



Jan. 12<sup>th</sup> 2024  
Meeting with the Ministry  
Of Construction



We will have the workshop  
With HUCE on Sept.18<sup>th</sup>



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# Collaboration with Thailand, Indonesia and the Philippines

July 2023 Workshop  
With MEMR, Indonesia



July 25th 2024  
ZEB seminar  
With DEDE, Thailand



DRAFT AGENDA (Tentative)  
Workshop on  
Zero Energy Building (ZEB) Development Program  
25 July 2024  
Venue : ANANTARA SIAM BANGKOK Hotel  
Online Platform : In-person & online, Hybrid style Workshop  
Time : 8:00 to 12:00 (Bangkok)

8:00 - 9:00	Participants Registration
9:00 - 9:10	Opening Remarks by A) DEDE B) Energy Agency, Ministry of Economy, Trade and Industry Japan (METI)
9:10 - 9:25	Introduction of Asia Zero Emission Community by Ministry of Economy, Trade and Industry Japan (METI)
9:25 - 9:45	Update on the ZEB Current Situation and Policy in Japan by Dr. Ushio The Energy Conservation Center, Japan (ECCJ)
9:45 - 10:00	Update on the ZEB International Organization for Standardization (ISO, TS23764) by Mr. Hajime Moroo Head of JASE-WZEB Solution Working Group
10:00 - 10:15	ZEB Development Situation for Buildings in Thailand by DEDE
10:15 - 10:30	Break
10:30 - 10:45	ZEB examples in Thailand
10:45 - 11:45	Technologies for Zero Energy Buildings by AGC (Glass and Solar Battery Built-in Glass) Aubli Corporation (Energy management) Sanken Setubi Kogyo (Engineering for ZEB)
11:45 - 11:55	Q&A
11:55 - 12:00	Closing Remarks by DEDE

Sept. 2024  
Participation  
Building Green 2024  
By Philippines Green Building  
Council

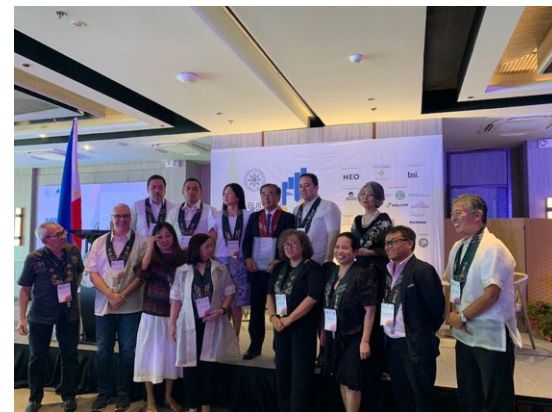


Photo from Building Green 2023



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# Collaboration with Sustainable Energy Development Authority ,Malaysia (SEDA)

## Cyberjaya, Malaysia



**MOU between JASE-W  
and SEDA, Malaysia  
@ Aug. 2022**



**4-story building, Office**

**Undergoing as a NEDO project  
Target: Nearly ZEB/net ZEB  
Retrofit ZEB project  
Partner: SEDA Malaysia  
Completion plan 2025**



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# Plan for 2024 (Fiscal year)

## ZEB Dissemination Seminar & Workshop

ZEB Dissemination Seminar & Workshop			Project Formulation	
Vietnam	Thailand	Philippines	Studying	Malaysia
Hanoi University of Civil Engineering	Department of Alternative Energy Development and Efficiency	Philippine Green Building Council		Indonesia
			Malaysia	
Sept. 18 <sup>th</sup> ZEB Workshop at Hanoi Jan. 2025 ZEB workshop	July 25 <sup>th</sup> ZEB Seminar at Bangkok	Sept 26-27 <sup>th</sup> ZEB Seminar at Building Green 2024		Office renovation project to ZEB



# INTERNATIONAL EXHIBITIONS

- JASE-W and its members has been participating in many international exhibitions.



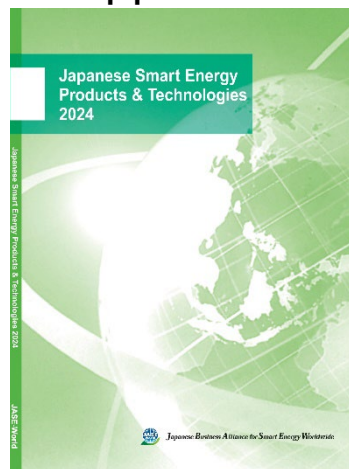
**ASEAN Sustainable  
Energy Week 2024  
July 3-5th @BANGKOK,  
THAILAND**



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# BOOKLET : JAPANESE SMART ENERGY PRODUCTS AND TECHNOLOGIES

- JASE-W is publishing a booklet every year which compiles various smart energy products and technologies developed by Japanese companies and applicable to the world.



Please visit:

<http://www.jase-we.org>



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## Technologies for ZEB Website

Toward Zero Energy Buildings  
by Japanese Business Alliance for Smart Energy Worldwide

Top List by type of equipment List by Country About us Contact us

Recommended technologies and products for achieving Zero Energy Buildings

Toward Decarbonized Society :Zero Energy Buildings (ZEBs)

Approach toward ZEB

Step 1 : ZEB Ready	Step 2 : Nearly ZEB	Step 3 : NET ZEB
Reduction of primary energy consumption : 0%	Reduction of primary energy consumption : $\beta$ %	Reduction of primary energy consumption : more than 100%

Reduction rate targets, 0%, and  $\beta$ % to be set by individual countries.

# THANK YOU !



**Contact Email: [jase-w@eccj.or.jp](mailto:jase-w@eccj.or.jp)**



<https://www.jase-we.org/>



***The Energy Conservation Center, Japan***



***Japanese Business Alliance for Smart Energy Worldwide***