

# 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)



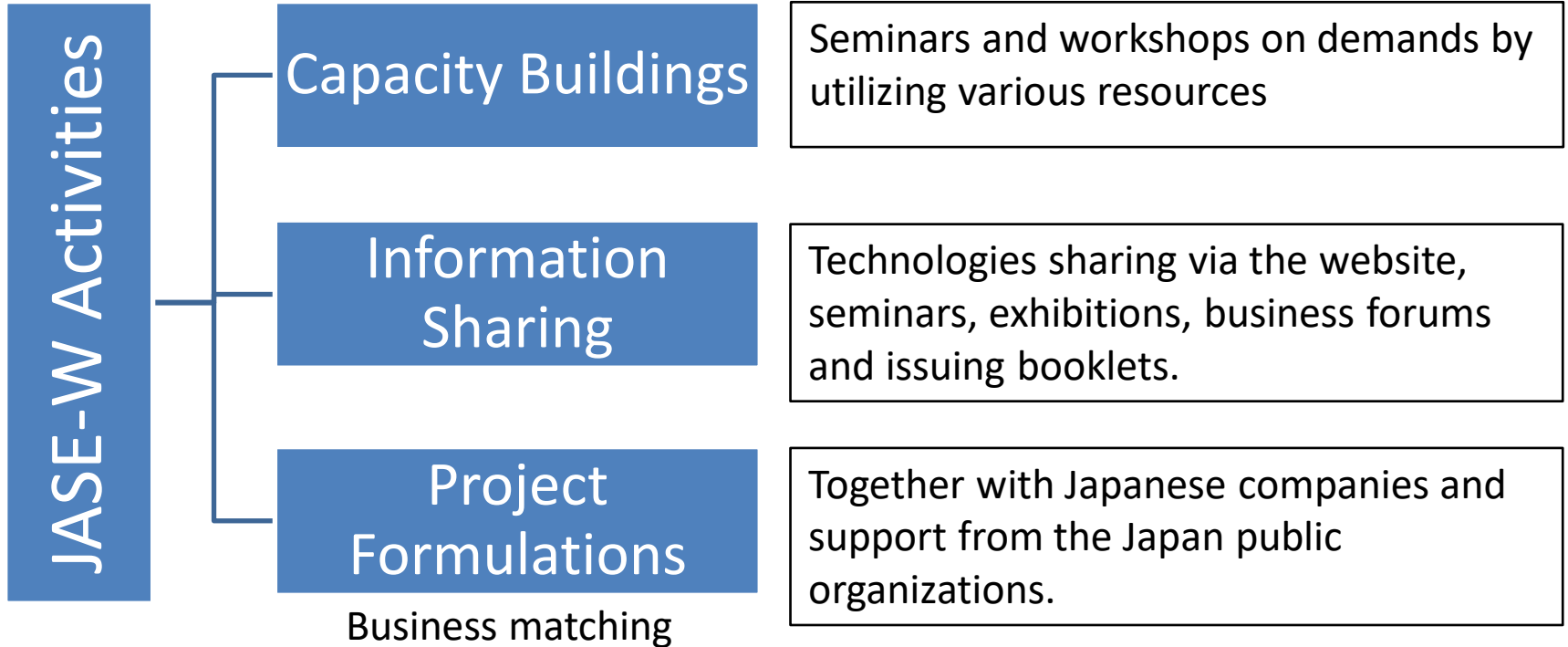
*Japanese Business Alliance for Smart Energy Worldwide*

# MEMBER COMPANIES

- Currently 44 of Japanese excellent companies are the members of JASE-W.



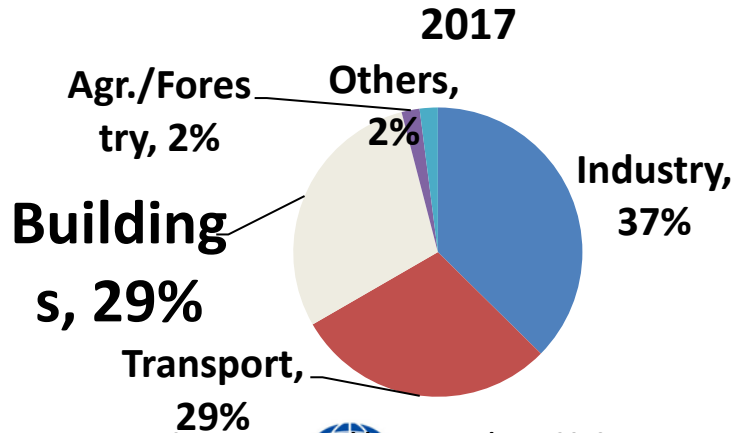
# What is JASE-W doing?



# Carbon Neutral in Building Sector

**If we think about the Year 2050, ACT Now!**

Buildings are very large energy consumer  
World Energy Consumption (Mtoe)



Buildings have long lifetime,  
they continue to exist in 2050.



**Zero Energy Building (ZEB)  
For decarbonized society**

Source: IEA World Energy Balance 2019



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# Collaboration among ASEAN Member States for ZEB

## ZEB Training programs in Tokyo



**1<sup>st</sup> training program :**  
**November 2017**  
**2<sup>nd</sup> training program:**  
**September 2018**  
**3<sup>rd</sup> training program:**  
**January 2019**

## Seminar and workshop



**Oct. 2019@Bangkok**



**July 2019@Legazpi**  
**Oct. 2019@Manila**

**Online seminar**  
**Dec. 2020**  
**For Vietnam**

**Feb. 2020@Malaysia**



**Online seminar**  
**Feb.2021**  
**For Indonesia**

**Online seminar**  
**In 2022**

**ACCSQ (July)**  
**Malaysia (Oct.)**  
**Vietnam(Nov.)**  
**etc.**



# 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



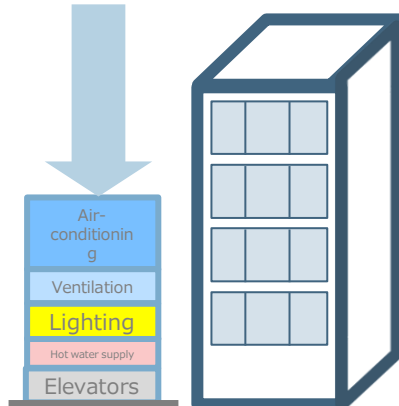
ISO TS23764

# 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**

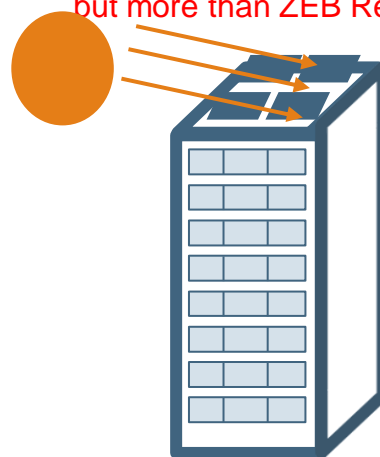
## ZEB Ready

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



## Nearly ZEB

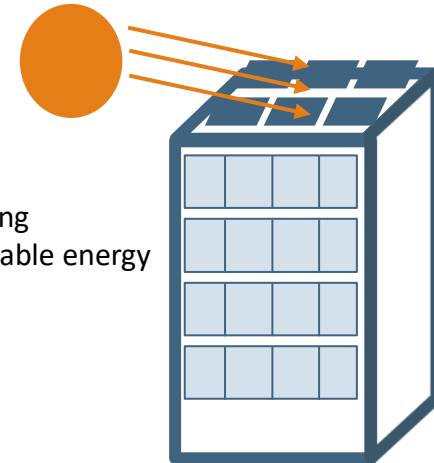
(Net energy saving (RE) **not reach 100%** including% **but more than ZEB Ready**)



Including  
Renewable energy

## (net)ZEB

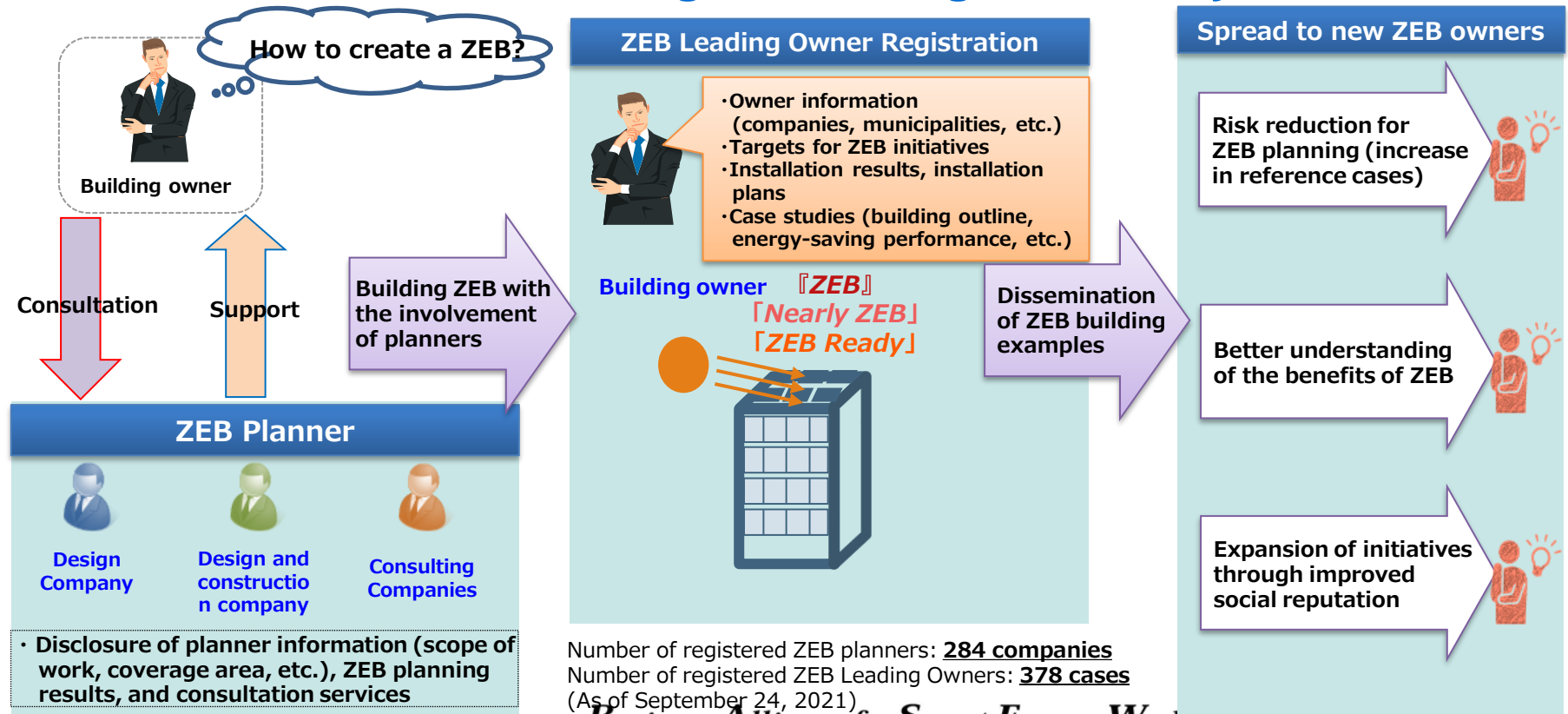
(Net energy saving (including RE) **of 100% or more**)





# The measures for ZEB dissemination in Japan

## ZEB Planner / ZEB Leading Owner Registration System



# JAPANESE BUSINESS ALLIANCE for ZERO ENERGY BUILDING

## Japanese Energy Efficiency Technology Integration



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



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

## Cyberjaya, Malaysia



**4-story building, Office**

**Understudying with  
NEDO**

**Target: Nearly ZEB/net  
ZEB**

**Retrofit ZEB project**

**Partner: SEDA Malaysia**



# Collaboration with Ministry of Energy, Mineral Resources , Indonesia (MEMR)

The poster features logos for the Japanese Embassy in Jakarta, ECCJ (The Energy Conservation Center, Japan), and the Japanese Business Alliance for Smart Energy Worldwide. The event title is "Scoping of Net Zero Energy Building Cooperation" held at Jihl Solitaire, Gading Serpong - Tangerang on Tuesday, July 25, 2023, at 01:00 PM Jakarta. It lists a moderator, Dr. Kenji Nakagawa, and two panels of speakers. Panel I includes representatives from the Ministry of Energy and Mineral Resources of Indonesia, the Indonesian Ministry of Energy, and the Ministry of Industry, Trade and Tourism of Indonesia. Panel II includes representatives from the Japanese Ministry of Economy, Trade and Industry and the Japanese Ministry of Education, Culture, Sports, Science and Technology. Registration information is provided at the bottom right.



Scoping of Net Zero Energy Building Cooperation Workshop July 25<sup>th</sup> 2023 at Tangerang, Indonesia

# Collaboration with Ministry of Construction , Vietnam (MoC)



"Workshop for sharing experience and practical implementation of ZEB development in Japan and recommendations for Vietnam"

August 9<sup>th</sup>, 2023 at Hanoi, Vietnam



# Collaboration with Philippines Green Building Council



**ZEB Seminar  
at Building Green 2023  
28<sup>th</sup>, September 2023  
at Bohol, Philippines**

**BUILDING GREEN 2023**

*Green Building Conference*

Experience, Expertise Exchange

***Pursuing Public-Private Cooperation in Net Zero through Green Building***

28 September 2023

Modala Resort, Bohol, Philippines



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

# Sharing Information



# INTERNATIONAL EXHIBITIONS

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



**ASEAN Sustainable  
Energy Week 2023  
AUGSUT  
@BANGKOK,  
THAILAND**



**ENLIT ASIA 2023  
NOVENBER  
@JAKARTA,  
INDONESIA**





# BOOKLET : JAPANESE SMART ENERGY PRODUCTS AND TECHNOLOGIES

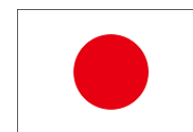
- JASE-W is publishing a booklet every year which compiles various smart energy products and technologies developed by Japanese companies and applicable to the world.



Please visit:

<http://www.jase-w.eccj.or.jp/technologies/index.html>

Available in 7 Languages !



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# Website for searching recommendable technologies and products to achieve ZEBs



- Search by
- Building zone
  - Products area
  - Country

Toward Decarbonized Society :Zero Energy Buildings (ZEBs)

Approach toward ZEB



Reduction rate ranges, α% and β% to be set by individual countries.



# ZEB Design Guidelines and ZEB Pamphlets series

## ZEB Design Guidelines

## ZEB Pamphlets



Office  
Hospitals  
Hotel  
School  
Supermarket  
Etc.



# THANK YOU !



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



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



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