

CEFIA 4th Forum Feb.16th, 2023 : Flagship Project
Cooperative Activities of JASE-W for ZEB dissemination in ASEAN
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)



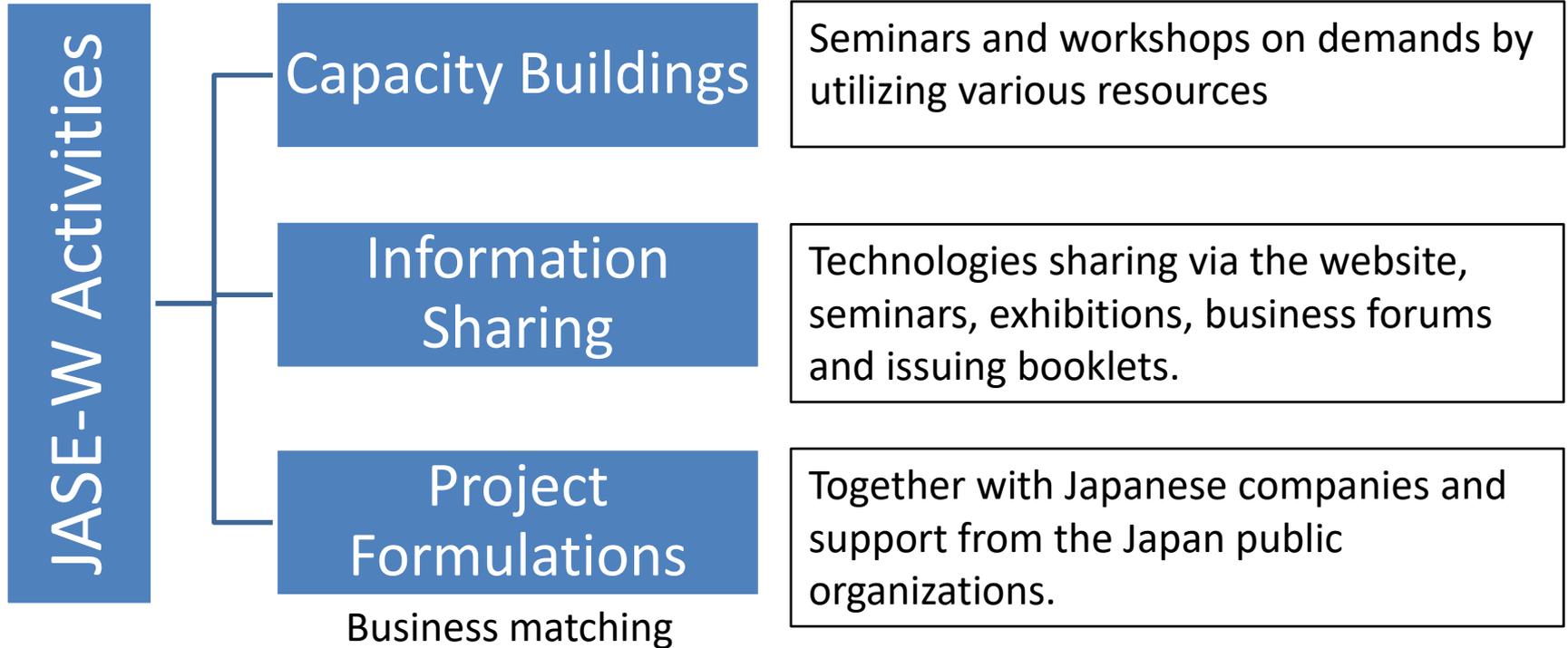
Japanese Business Alliance for Smart Energy Worldwide

MEMBER COMPANIES

- Currently more than 45 of Japanese excellent companies are the members of JASE-W.

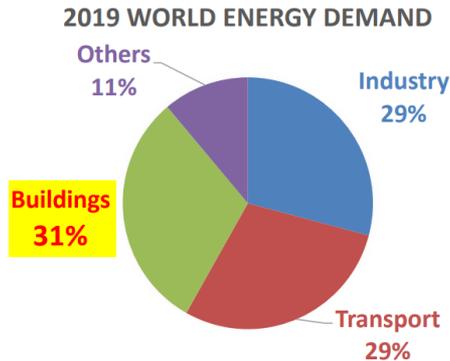


What is JASE-W doing?



ZEB Solution Working Group

- 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 making ISO global standard on ZEB together with Malaysia, the Philippines and Singapore, and has successfully enacted Technical Specification since Sept. 2021.



Source: IEA World Energy Outlook 2021



**Methodology for
achieving non-residential
Zero Energy Buildings
(ZEBs)**

ISO TS23764 (for achieving ZEBs)

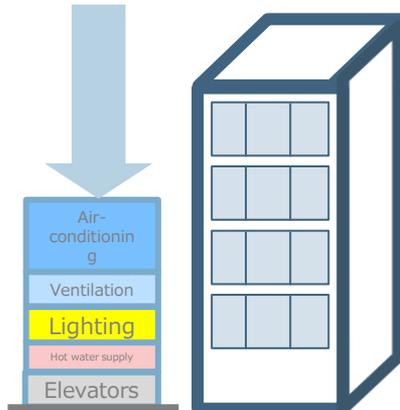
**Energy
Security
Issues**

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**

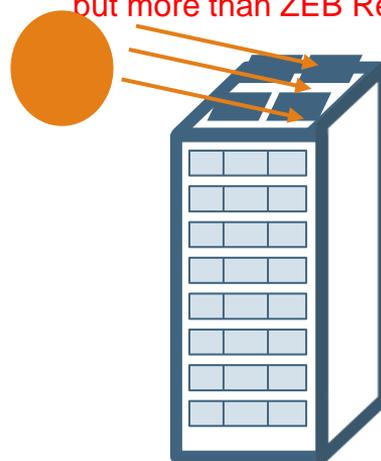
ZEB Ready

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



Nearly ZEB

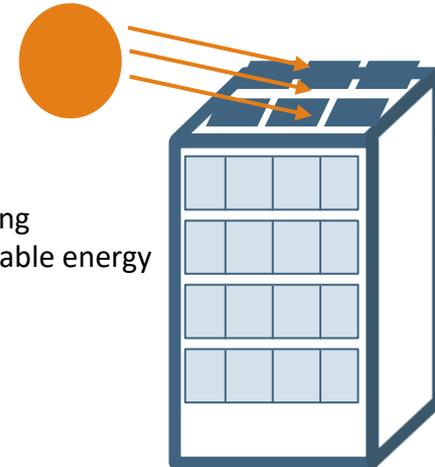
(Net energy saving (RE) **not reach 100% including% but more than ZEB Ready**)



Including
Renewable energy

(net)ZEB

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



Financial advantages of the Step-by-Step approach toward ZEB

Step-by-Step Investments

Smaller Investments

Easier Credit Limit Management

**Defining Referential
Energy Consumption
Baseline**

**ZEB planning/auditing
procedures have to be
established**



Requirements for this Step-by-Step Approach

Defining
Referential
Energy
Consumption
Baseline

Establish ZEB
Certification
System

Implementation
of Energy
Consumption
Simulation
Program

Legal
framework
based on
TS23764

Zero Energy Buildings Dissemination



Japanese Business Alliance for Smart Energy Worldwide

Collaboration with Sustainable Energy Development Authority ,Malaysia (SEDA)



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



Cyberjaya, Malaysia

4-story building, Office

**Understudying
Target: Nearly ZEB/net ZEB
Retrofit ZEB project
Partner: SEDA Malaysia**



Japanese Business Alliance for Smart Energy Worldwide

JAPANESE BUSINESS ALLIANCE for ZERO ENERGY BUILDING

Japanese Energy Efficiency Technology Integration



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, 0% 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.



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THANK YOU !



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



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