



ZEB Promotion Activities and Introduction of Japanese Technology

Japanese Business Alliance for Smart Energy Worldwide
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JASE-W (Japanese Business Alliance for Smart Energy Worldwide)

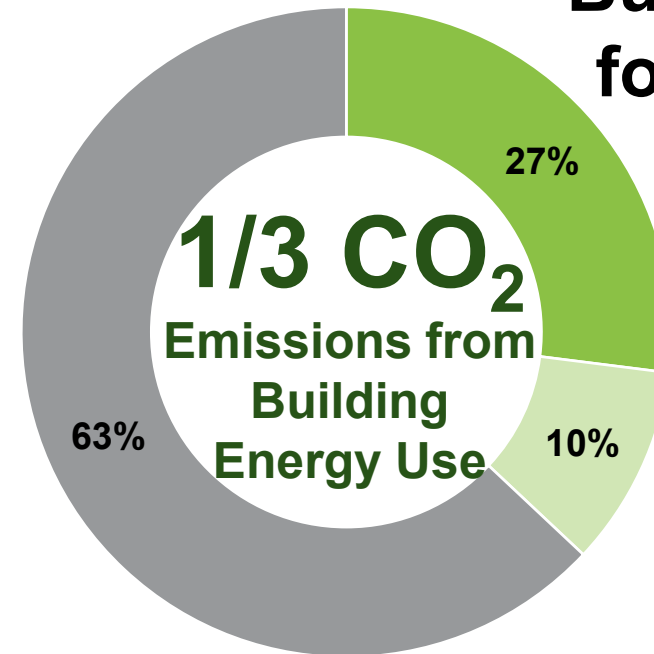


ZEB is the one of main activities for JASE-W

- ◆ JASE-W was established in October 2008.
- ◆ Promoting Japanese decarbonization technologies and products
- ◆ The public and private sectors have been working together
- ◆ Conducting forums, exhibitions, and surveys, and analyses.

Importance of ZEB for Achieving CN City

Scaling ZEB is critical to achieving carbon neutrality by 2050



Buildings account for approx. 1/3 of global CO₂ emissions

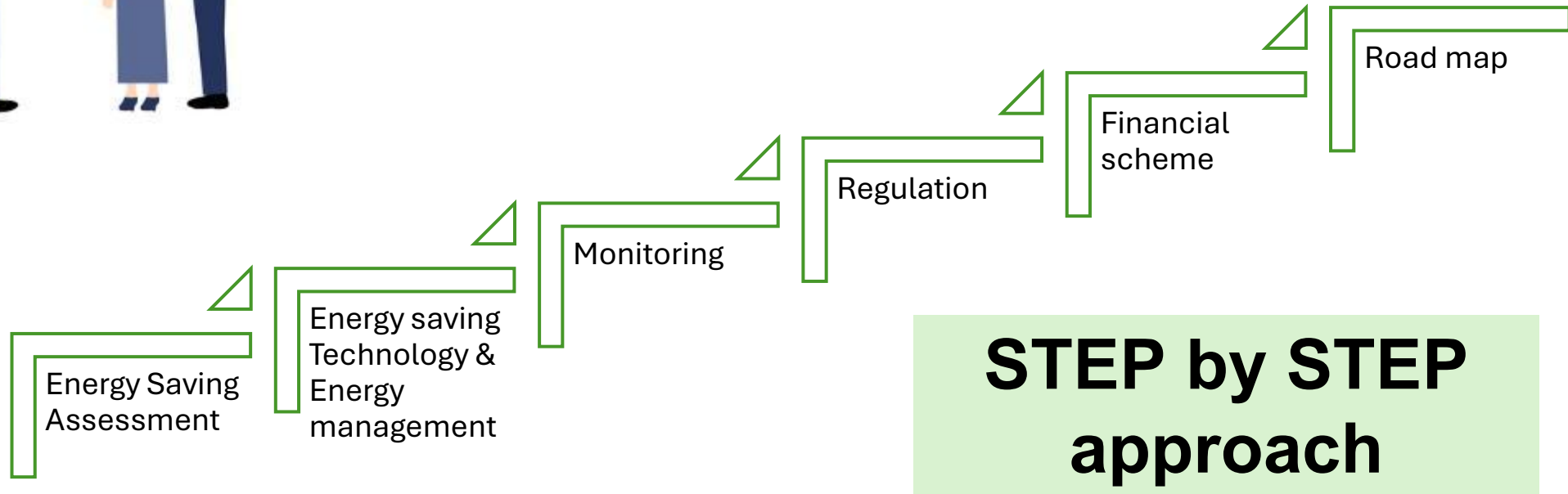
Source: IEA 2023 Adapted from "Tracking Clean Energy Progress"

Message from JASE-W

Many challenges exist, but ZEB is achievable

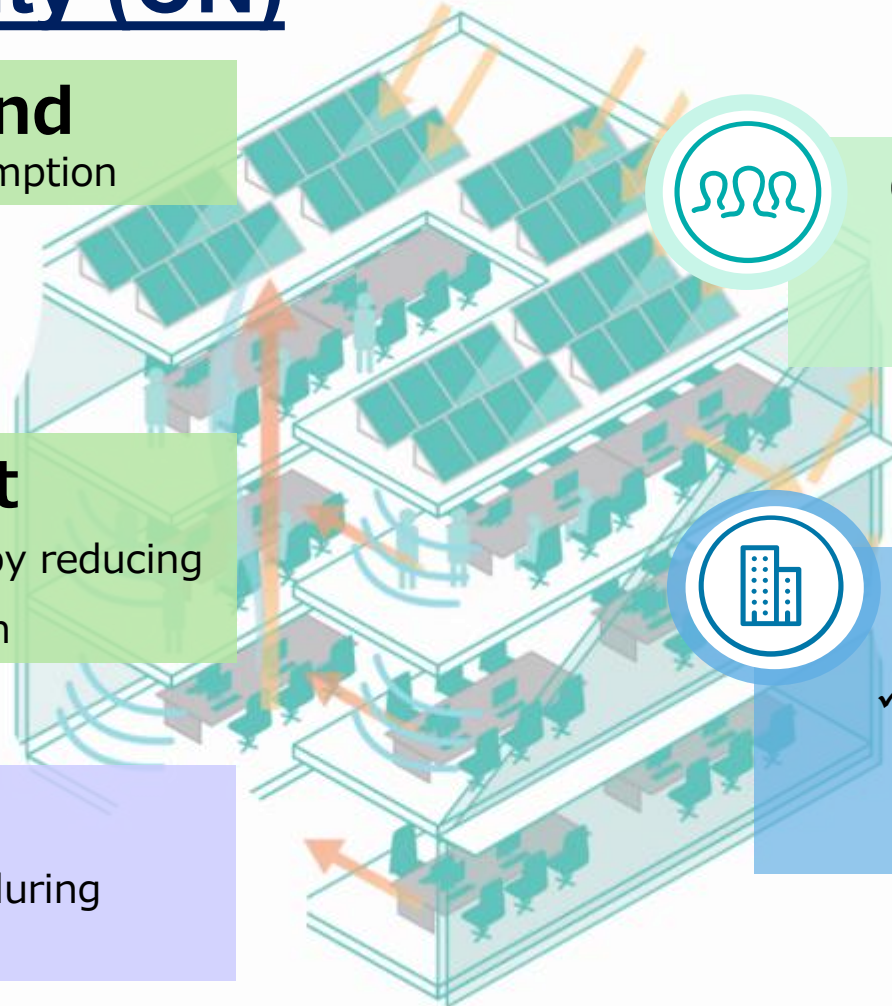


JASE-W, as a solution provider
proposes collaboration with partners



The Multifaceted Benefits of ZEB

ZEB addresses many important social issues beyond Carbon Neutrality (CN)



Energy demand

- ✓ Reducing overall consumption



Energy Cost

- ✓ Lower utility costs by reducing energy consumption



Resilience

- ✓ "Emergency Hub" during disaster/grid failure



Citizen's Well-being

- ✓ Healthier, more productive environment for citizens



Real Estate Value

- ✓ Attract ESG-conscious tenants/investors and increase real estate value

The Challenges of ZEB

JASE-W provides solutions through a step-by-step approach to problem-solving

Diagnosis

Can energy consumption be accurately diagnosed?

Technology

Is the technology required to achieve ZEB readily available?

Integrated solutions

Achieving ZEB with a single technology is difficult, but what approach should be taken to develop integrated solutions?



ZEB Approach

Is it possible to achieve net-zero in a single step?

Regulation

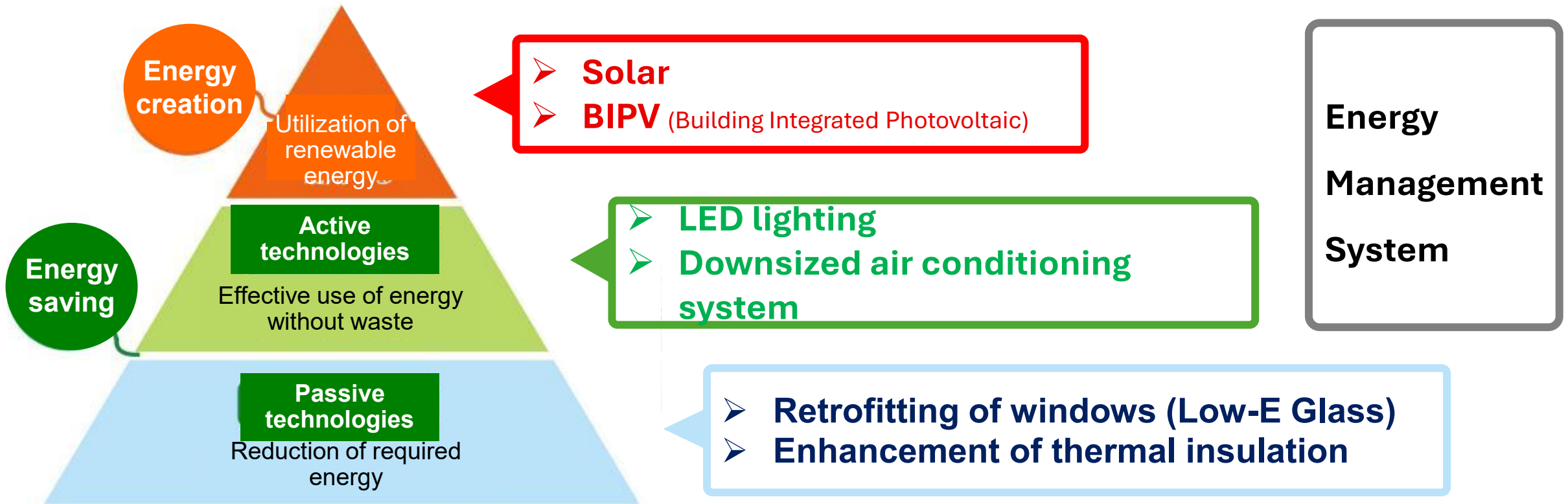
What regulations need to be established to promote ZEB?

Beyond new construction

How should we approach ZEB for existing buildings?

Technologies required to achieve ZEB

- ◆ Enhanced building envelope performance through better insulation
- ◆ Introduction of efficient equipment
- ◆ Implementation of renewable energy technologies



Source: ZEB web portal of MOE

Introducing Green Renewable ZEB

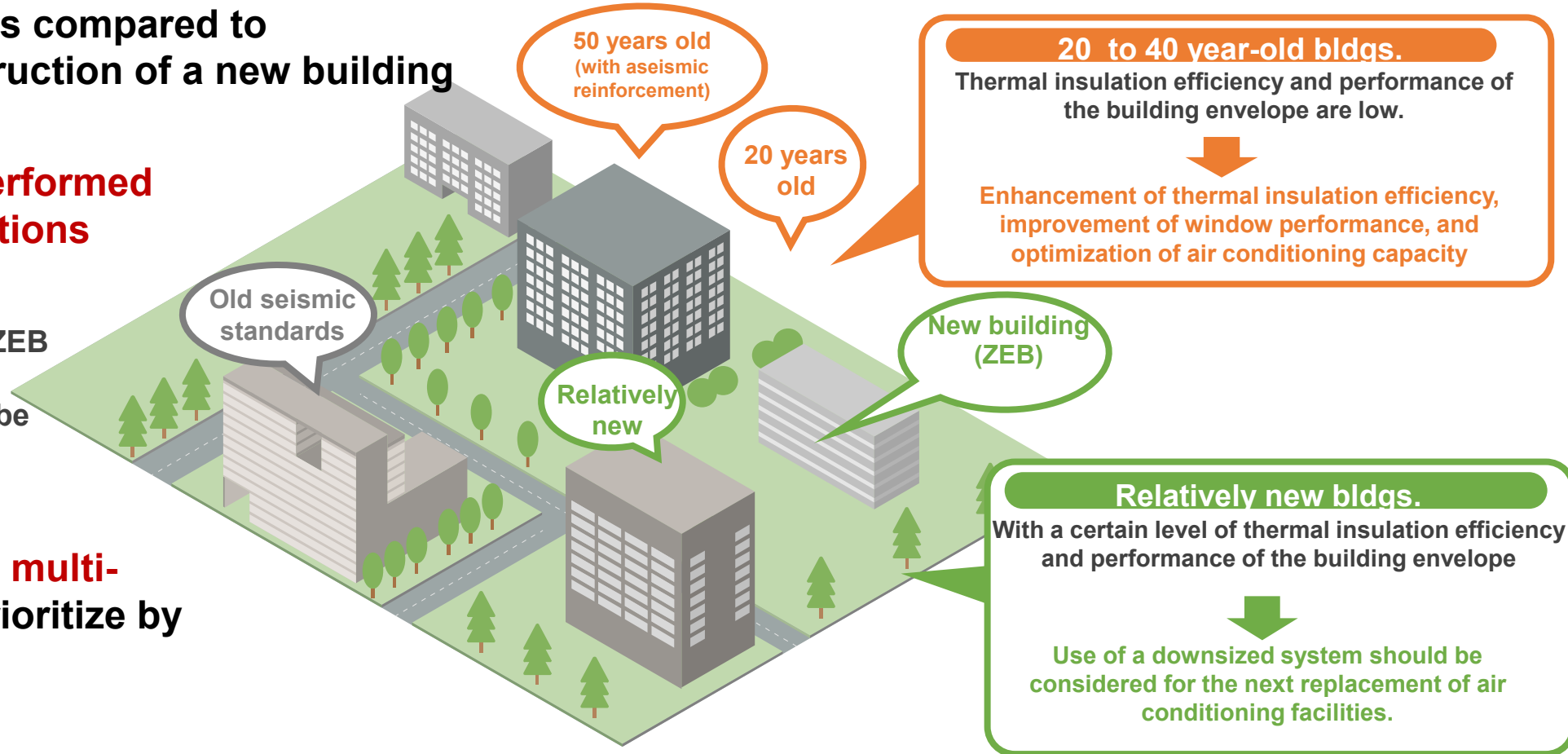
Promoting ZEB renovations offers numerous benefits

✓ **Less CO₂ emissions** as compared to demolition and construction of a new building

✓ **Renovation can be performed while business operations continue**

“Aseismic reinforcement” & ZEB
or
“new building ZEB” should be considered

✓ Proposal for **efficient multi-building renewals**, prioritize by performance



ZEB Workshop Held in Hanoi, Vietnam

January 7- 10 2025

- ◆ Lecture to the National University of Civil Engineering (HUCE) in Vietnam on Japanese ZEB evaluation methods, to support local regulatory development.
- ◆ Visit Hanoi to identify potential properties and assessing feasibility for demonstration experiments



ZEB Workshop in Brunei

August 25-29 2025

- ◆ Conducting a ZEB diagnosis of the government office building (Ministry of Development MOD Building)
- ◆ Holding discussions with Brunei government officials to develop the MOD Building ZEB



建物の外観 中央右寄りに大型のガラスファサード（吹き抜け）を配置。左側のポツ窓部が執務室エリア

ZEB Workshop in Indonesia

July 23 2025

- ◆ Co-hosted a ZEB workshop/seminar in Jakarta, over 120 attendees.

Ministry of Energy and Mineral Resources (MEMR)

Green Building Office / Ministry of Public Works and Housing

Jakarta City Urban Planning Department



CEFIA in Malaysia

October 15-17 2025

- ◆ ZEB technology presentation at “Cleaner Energy Future Initiative for ASEAN”
- ◆ ZEB presentation as a CEFIA flagship project



ZEB Workshop at Bangkok

January 27 2026

Yokohama -Bangkok City to-City Project

For about 100 BMA construction-related staff

Opening remarks by Bangkok Governor Chadchart



ZEB Workshop in Malaysia

February 5 2026

- ◆ In collaboration with SEDA (Sustainable Energy Development Agency Malaysia),
- ◆ The aim was to promote the dissemination of SEDA's ZEB adoption policy to local governments.

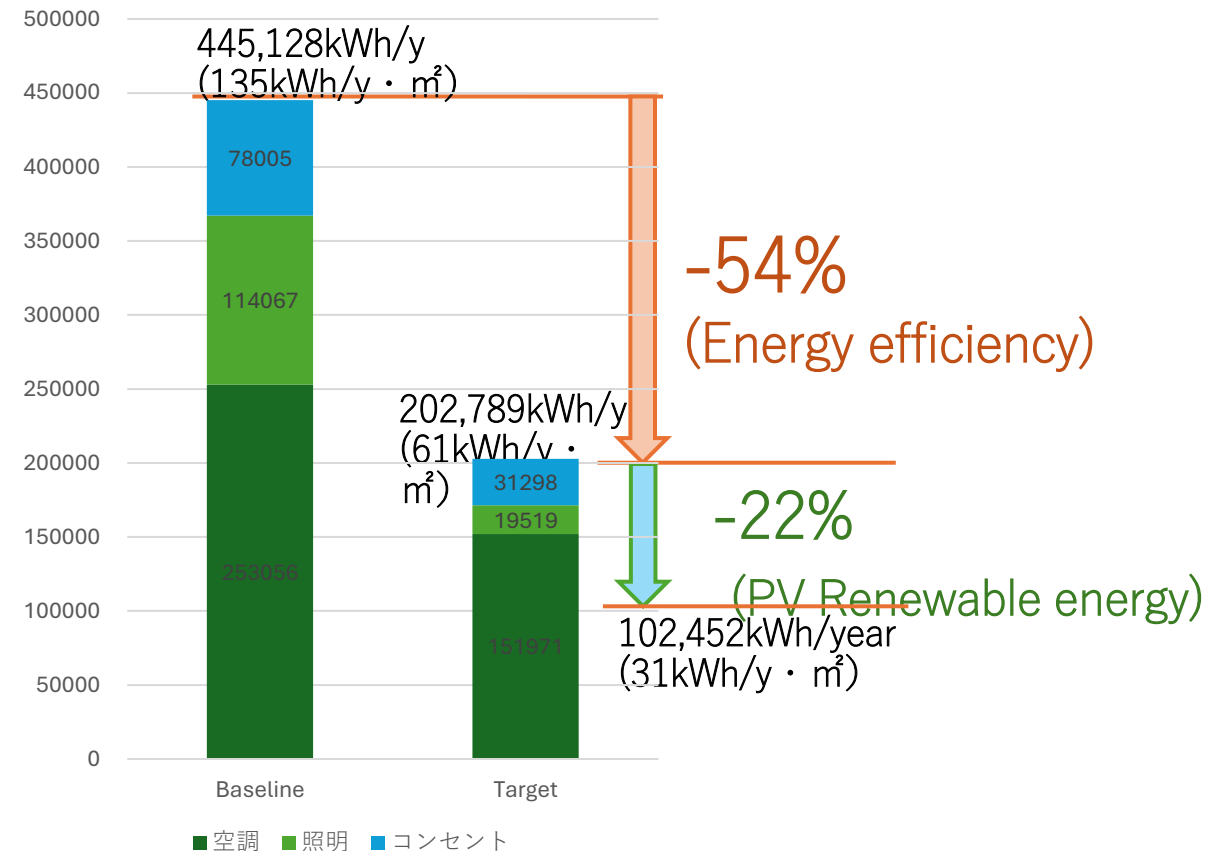


Collaboration with Sustainable Energy Development Authority ,Malaysia (SEDA)

Cyberjaya, Malaysia
4-story building, Office



Implemented as a NEDO project
Target: Nearly ZEB/net ZEB
Retrofit ZEB project
Partner: SEDA Malaysia



Proposal

Experience ZEB through a Demonstrate Project

Expertise of JASE-W's member companies



Japanese government backup (METI)



JASE-W's function

Capacity Buildings/ Information Sharing/ Project Formulations



We formulating a demonstrate project

- ✓ Energy-Saving diagnosis
- ✓ Demonstration Projects

THANK YOU !



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



The Energy Conservation Center, Japan