

Final Report on ECAP 17

9 Nov 2018 Tokyo, Japan

OUTLINE

01

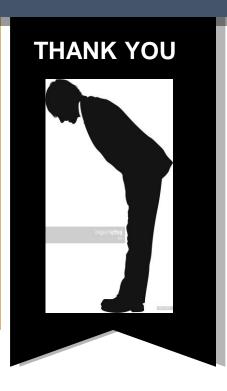
02

03

04

NEXT PLAN

 GBC/BEC/ZEB in Malaysia KEY TAKEAWAYS FROM ECAP17 CHALLENGES
AND SUPPORTS
FOR THE
IMPLEMENTATION
OF ZEB



Ahmad Firdaus







 Start engaging with all relevant stakeholders and to continue disseminate information on ZEB Family Concept

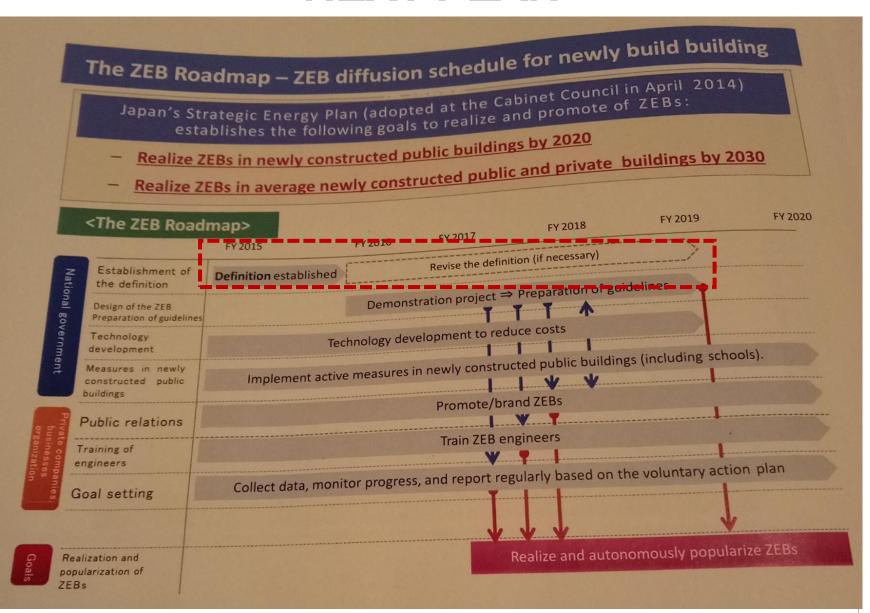


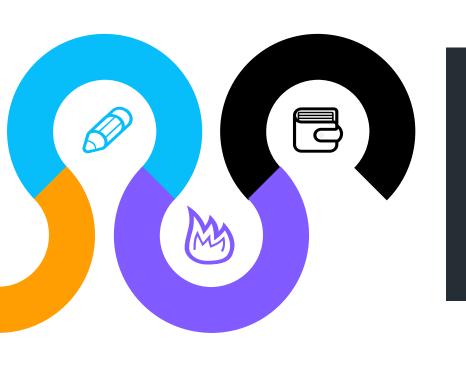






Construction Industry
Development Board (CIDB)





Country definition on ZEB Family Concept

- ZEB Ready
- Nearly ZEB

ZERO ENERGY BUILDING **FACILITATION PROGRAM**

NEARLY ZERO ENERGY BUILDING (nZEB) NET ZERO ENERGY BUILDING (NZEB)

(Part of Low Carbon Building Facilitation Program by SEDA Malaysi

- Nearly Zero Energy Building (nZEB) is an advance Low Carb **Building initiatives.**
- It is a few steps ahead towards achieving Net Zero Building Carbon Neutral Building (operational carbon)

OBJECTIVE

To promote the adoption of super low carbon green building by using a method focusing purely on sustainable energy practices starting with energy efficiency measures in reducing overall energy demand or con and offsetting the balance of minimum energy needed by using on-site energy.

Level of Achievement	Assessment Scheme for buildings
(% of CO ₂ e Reduction)	(diamond)
100% Carbon Neutral	AAAAA
≥ 70 to < 100	44444
≥ 50 to < 70	安安安安
≥ 30 to < 50	222
≥ 10 to < 30	***
≥1 to < 10	

ZEB = (EE + RE) X Sustainable Practices

Energy Conservation

Assessment Scheme Level of Achievement (% of CO2e Reduction) 100% Carbon Neutral ≥ 70 to < 100 2 50 to < 70 ≥ 30 to < 50 ≥ 10 to < 30 21 to < 10

Assessment tool by SEDA Malaysia :
Construction Industry Standard (CIS-20:2012) – GreenPASS developed by CIDB Malaysia

Info at:

www.seda.gov.my/ZEB

Mobile / SMS: +6019 - 282 9102 Tel: +603 - 8870 5841



HEADQUARTER:

Sustainable Energy Development Authority Malaysia (SEDA Malaysia)

Level 9, Galeria PJH, Jalan P4W, Persiaran Perdana, Presint 4, 62570 PUTRAJAYA Tel: 03-8870 5800 Fax: 03-8870 5900

SABAH BRANCH OFFICE:

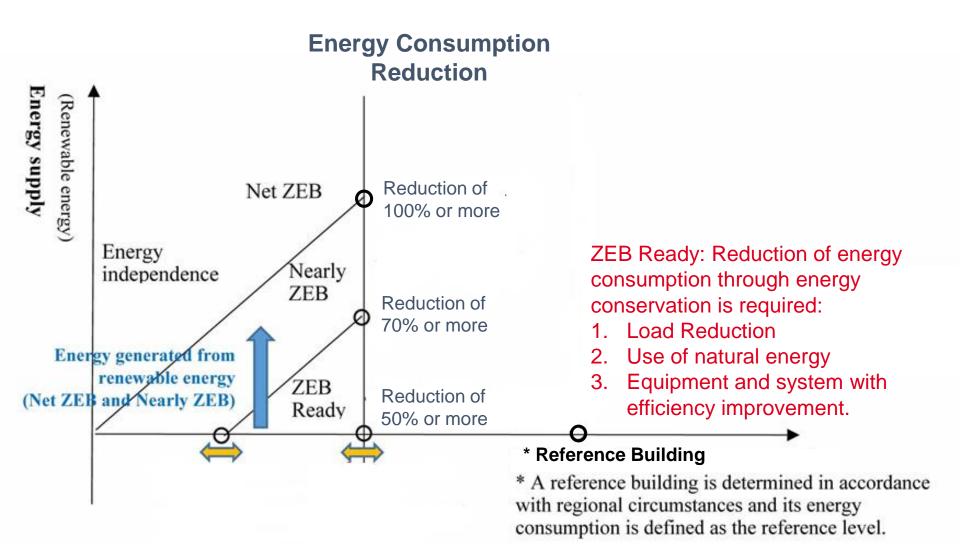
Sustainable Energy Development Authority Malaysia (SEDA Malaysia)

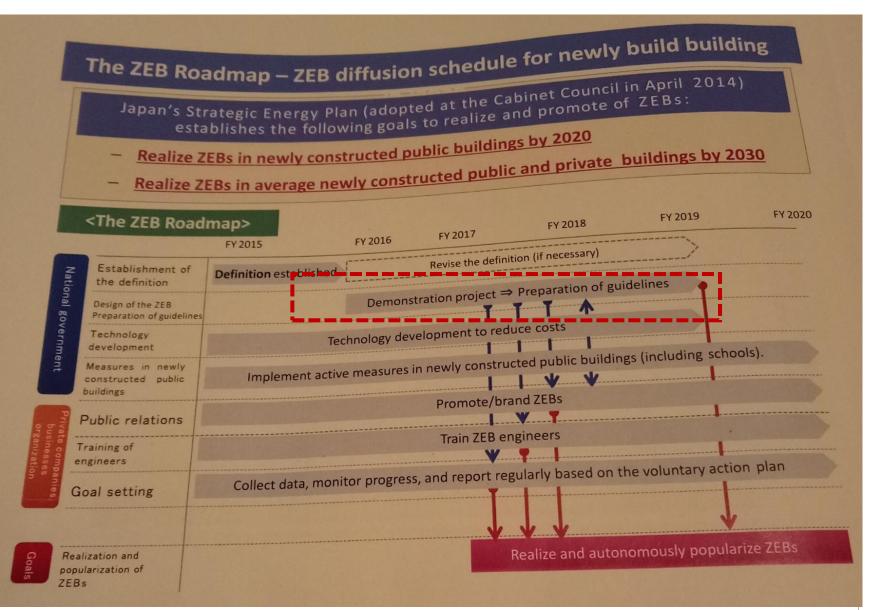
Lot 32, Level 1, Likas Square Commercial Centre, No. 1, Lorong Likas Square, Jalan Istiadat Likas, 88400 Kota Kinabalu, SABAH Tel: 088-252 101 / 251 462





PROPOSAL BY SEDA MALAYSIA ON DEFINITION ON ZEB FAMILY CONCEPT





ENERGY PERFORMANCE CONTRACTING (EPC) BY ENERGY SEVICE COMPANY (ESCO)

- ✓ Developing EPC Implementation Guidelines at Government Building
- ✓ Initiative under Government Lead by Example program
- ✓ Target 2019: 50 EPC projects in Government buildings
- ✓ There are several fund available for example:
 - i. Green Technology Financing Scheme (GTFS)
 - ii. EPC Fund

02

ENERGY EFFICIENCY & CONSERVATION ACTS

✓ Regulations for Building Sector

AWARENESS in



KEY TAKEAWAYS

Six Core Elements of ZEB Family Concept











After design and completion

KEY TAKEAWAYS

- As mention by Ushio san during his presentation,
 "Data collection and analysis are very important"
- To have management representative to be involve in energy management which are EMCO and EMPP
- As mention during site visit to SNK
 - To cooperate with public university and to do survey involving private sector in order to set the standards
 - To collect various actual data and to compare with simulation

Longer way forward

To look into system similar to that being used in Japan (Webpro)

CHALLENGES AND SUPPORTS FOR THE IMPLEMENTATION OF ZEB

MOU between SEDA Malaysia and JASE-W



THANK YOU