

Thailand's Action Plan ECAP 20

Chalermluk Jitrumpueng



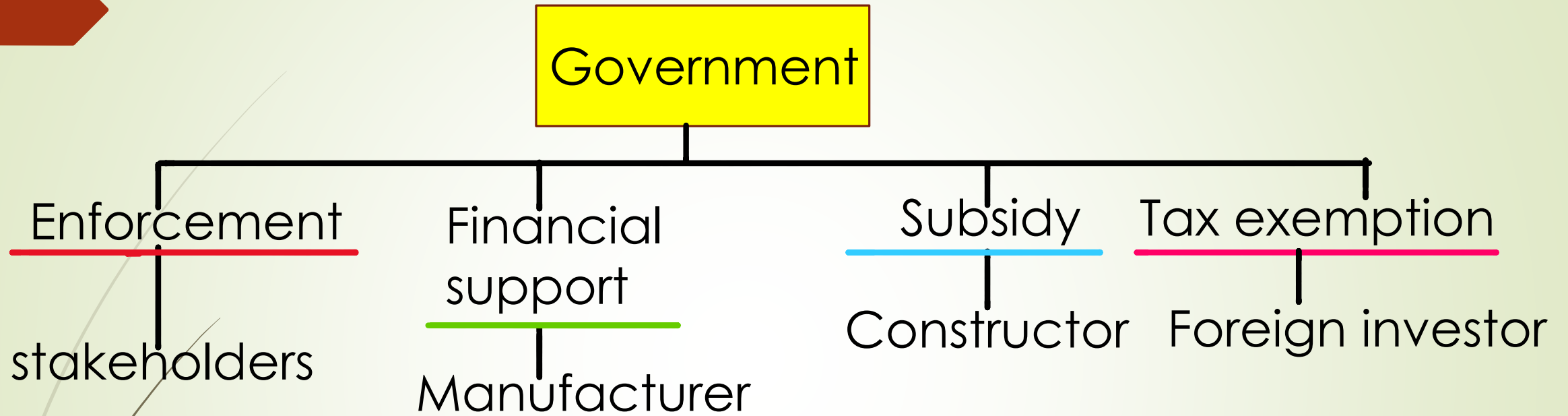


Current Situation

Thailand has a plan to develop all new buildings to ZEB in 2037. To achieve this plan we set the rule that all buildings must be completed BEC standard. Currently many buildings in Thailand still use the old system which is not quite good in consideration of energy efficiency and saving. However the development will take longer time to improve due to the high investment.

Key Issues

- To predispose of the building owner turned to see how important of energy saving and cooperate well with government to set ZEB standard.
- The Thai government still doesn't have enough budget for subsidy for all building to reach ZEB standard.



- Government will provide subsidy to help support the ZEB at the early stage.
- Financial support schemes for foreign investors such as income tax exemption.
- Enforcement of the Ministerial Regulation such as Enforcement BEC standard ,Development of BEC auditor training and Tightening BEC standard.

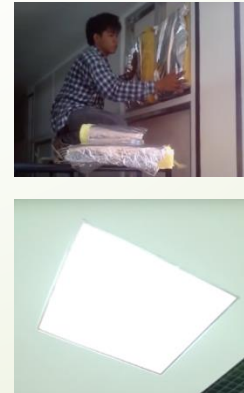
Ready to set up ZEB

Future Plan

- Upgrade BEC standard

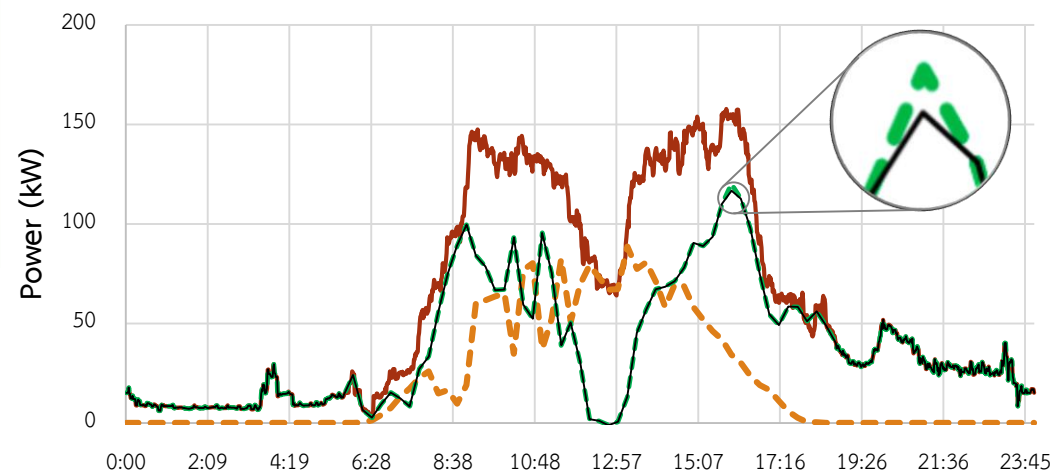
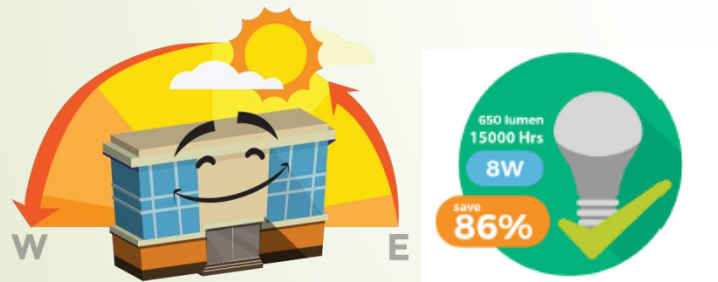


Zero
Energy
Building



ZEB Building Criteria

- Energy Efficiency – Passive and Active Design
- Renewable Energy – Peak Demand and Energy Consumption
- Human Comfort
- Innovation



Ready to set up ZEB

BEC AWARDS 2016-2018



| Label Type | BEC System (W/m ²) | | | %Saving |
|------------|--------------------------------|------|-----|---------|
| | OTTV | RTTV | LPD | |
| Excellent | ✓ | ✓ | ✓ | ≥70 |
| Very Good | ✓ | ✓ | ✓ | ≥50 |
| Good | ✓ | ✓ | ✓ | ≥30 |

| Label Type | 2016 | 2017 | 2018 | Sum |
|------------|------|------|------|-----|
| Excellent | 9 | - | 1 | 10 |
| Very Good | 32 | 6 | 15 | 53 |
| Good | 46 | 3 | 2 | 51 |
| Sum | 87 | 9 | 18 | 114 |



Proposed Schedule

| Item | 2020 | | 2021 | | 2022 | |
|--|-------------|-------------|-------------|-------------|-------------|-------------|
| | Jan- Jun | Jul- Dec | Jan- Jun | Jul- Dec | Jan- Jun | Jul- Dec |
| Enforcement the BEC regulation of government and private buildings | ▼ | | | | | |
| Develop the EE and RE project for encouraging to the near ZEB | ▼ | | | | | |
| Operate the project by funding to renovate with the ZEB standard | | ▼ | | | | |
| Develop auditor training conservation for take care of and educating the energy conservation | ▼ | | | | | |
| Adjust the performance and improve the criterion of BEC | ▼ | | | | | |



THANK YOU
For your attention