


# Thailand Economy Update

Department of Alternative Energy  
Development and Efficiency (DEDE)



 กระทรวงพลังงาน  
MINISTRY OF ENERGY

*Ms Suthanee Wachasit*  
*Division of Energy Efficiency Promotion*  
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## Current energy status

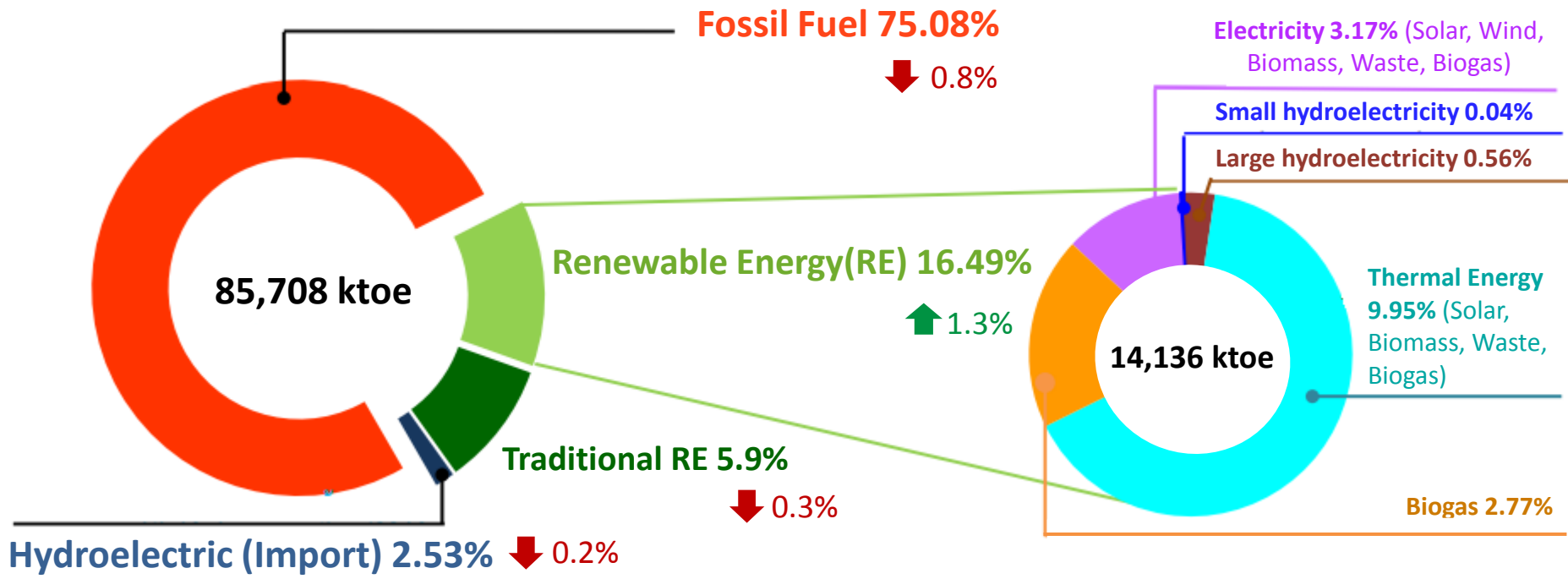


## Thailand Energy Efficiency Plan



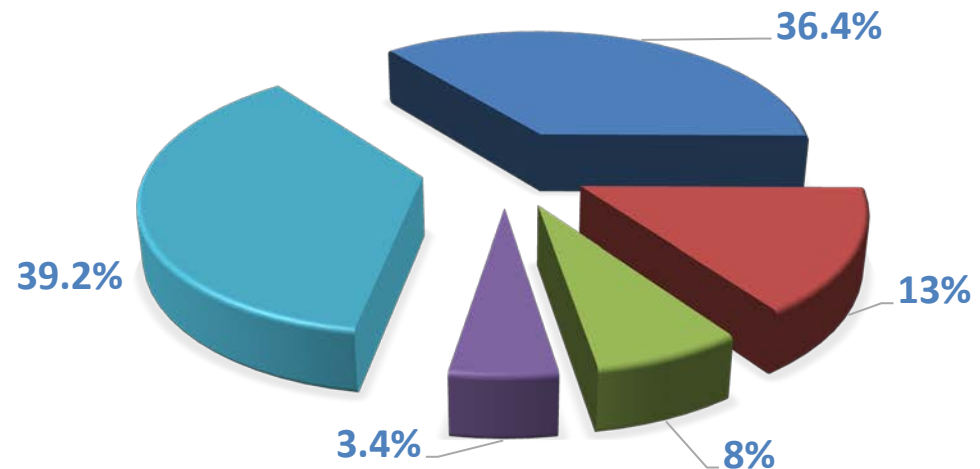
## Implementation and progress of energy conservation programme

## Final Energy Consumption by Type



## Final Energy Consumption by Sector

- Industrial ↑ 2.3%
- Residential ↑ 1.6%
- Commercial ↑ 4.5%
- Agricultural ↑ 2.2%
- Transportation ↑ 1.6%



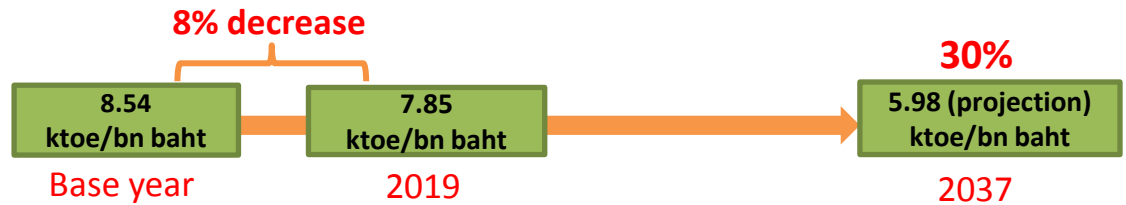


# TIEB

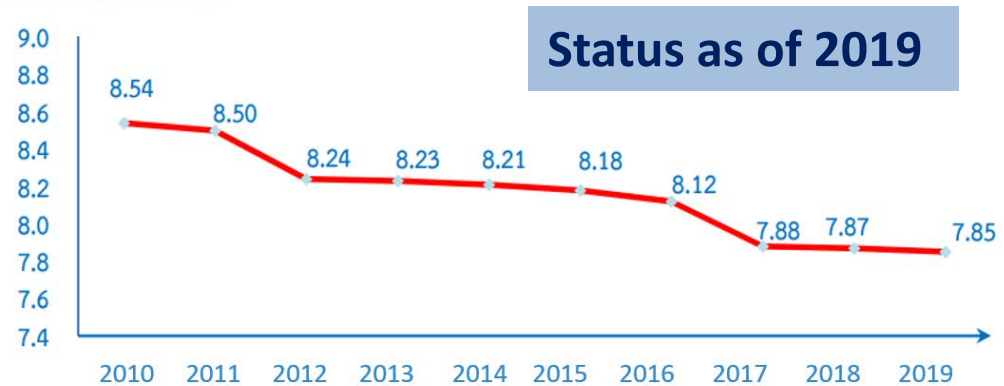
THAILAND INTEGRATED ENERGY BLUEPRINT

## Thailand **New** Energy Efficiency Plan 2018-2037 (EEP2018)

- Sets a target for **energy intensity (EI) reduction of 30% by 2037** (baseline 2010).
  - Reduce energy demand (49,064 ktoe) and peak demand (4,000 MW)
- Highlights disruptive technology for energy conservation to support changes in technology.
- Develops energy efficiency measures, covering a variety of customer groups and enhances participation in energy conservation in all sectors.



EI (ktoe/bn baht)



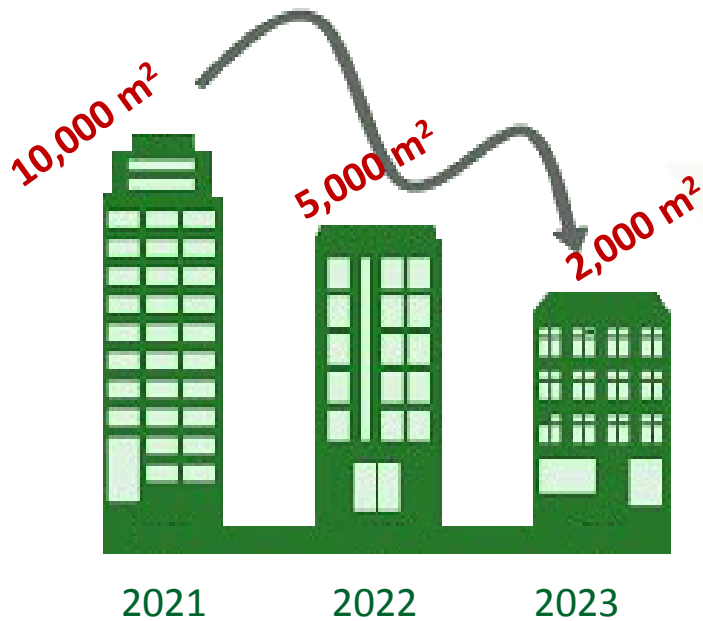


# Implementation and progress of energy conservation programme



Published in the Royal Gazette on 12 Nov 2020 | enforcement on **13 March 2021** onwards

New or retrofitted buildings being constructed which have total area of all stories equal to 2,000 m<sup>2</sup> or more must be designed under the energy conservation requirements (BEC).



1.Hospital



2.Education



3.Office



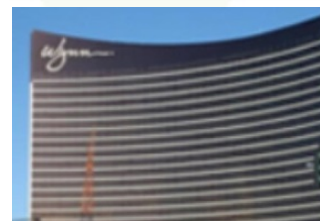
4.Condominium



5.Convention Hall



6.Theater



7.Hotel



8.Entertainment



9.Department Store

Starting from 10,000 m<sup>2</sup> and down to 2,000 m<sup>2</sup>

## BEC Standard

- 9 types of new buildings
- Total area  $\geq 2,000 \text{ m}^2$

**OTTV**  
OVERALL THERMAL TRANSFER VALUE

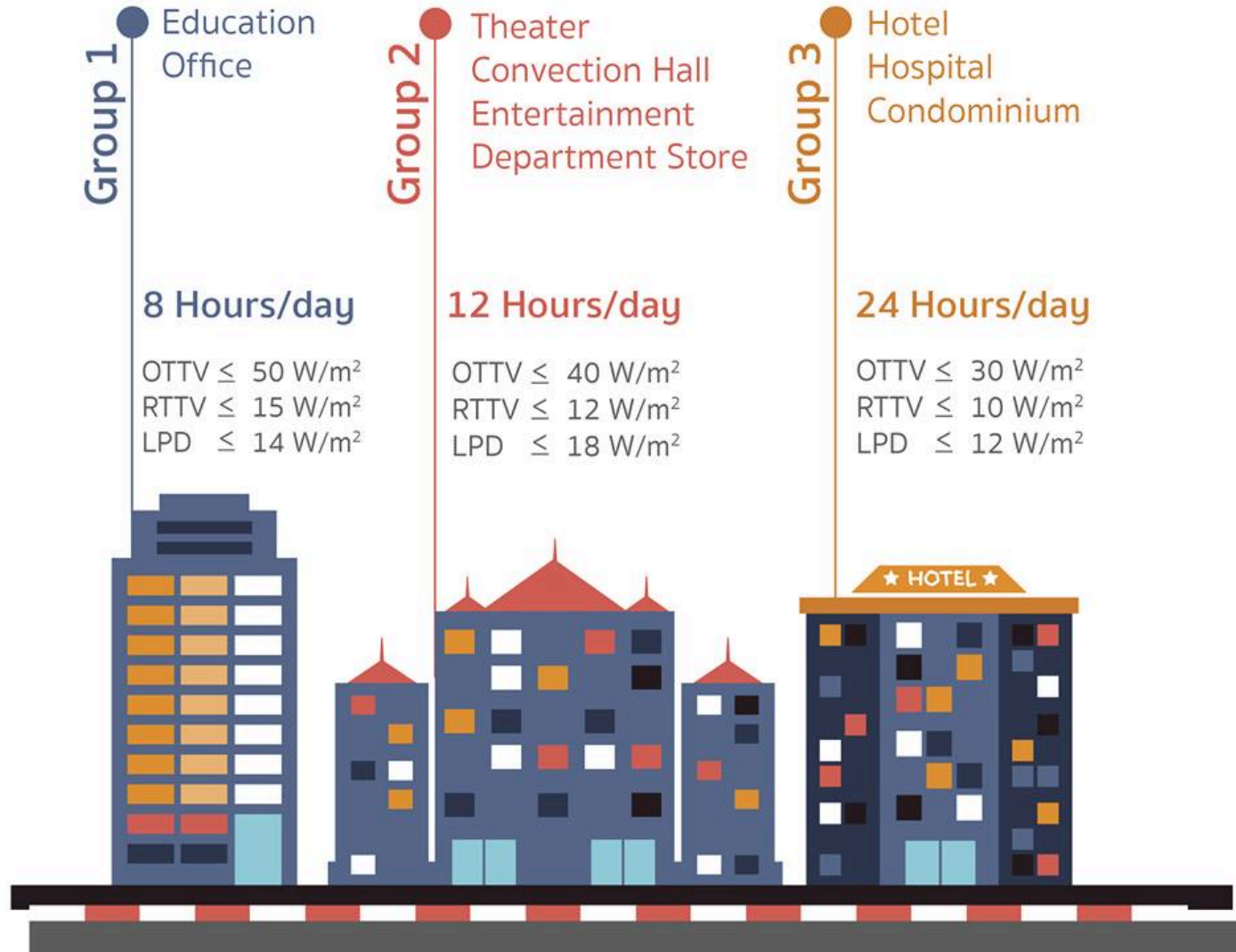
**RTTV**  
ROOF THERMAL TRANSFER VALUE

**A/C**  
AIR CONDITIONER

**LPD**  
LIGHTING SYSTEM

**RENEW**  
RENEWABLE ENERGY

**WHOLE**  
BUILDING ENERGY







## Smart Farm Subsidy Programme

- Direct Subsidy 30% of investment cost, limited to 1.5 million baht per farm
- Phase I in 2018 : 19 selected farms participating in the project
  - Energy saving 750 toe/year or 30 million bath/year
- Phase II in 2019 : 23 selected farms participating in the project (in progress)



## Internet of Things (IoT)

- Applying IOT system to monitor cattle behavior



Thank You

