# Thailand's Economy Updates 62<sup>nd</sup> EGEEC Meeting

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# Thailand's Energy Situation



**Production** 



2.44%

675 KBPD\*

Primary energy production decreased, except for condensate which has 3.3% growth.

Overall Final energy consumption decreased by 1%. The consumption of Petroleum Products and Electricity were slightly increased while the consumption of Solid Fossil Fuel (SFF) were harshly reduced.



Import (net)



1,571 KBPD\*

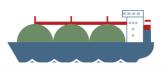
Energy import (net) had decreased in every energy sources apart from crude oil and natural gas.



**0.51%** 

2,000 KBPD\*

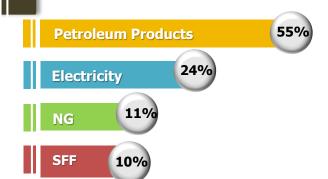
Energy consumption are slightly increase compare to the previous year mainly from natural gas.



#### **Final Energy**



1,454.7 KBPD\*

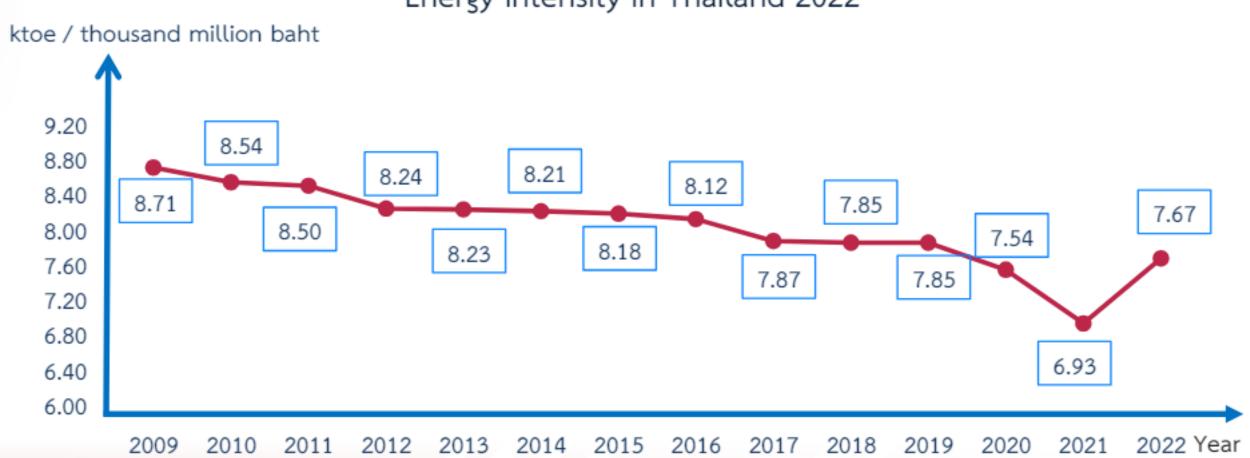




# Thailand's Energy Situation

# Energy Efficiency in Thailand

Energy Intensity in Thailand 2022



Source: DEDE 2023





# Thailand's Energy Situation

#### Alternative Energy in Thailand

#### PROPORTION OF ALTERNATIVE ENERGY CONSUMPTION IN TERM OF ELECTRICITY, HEAT AND BIOFUEL



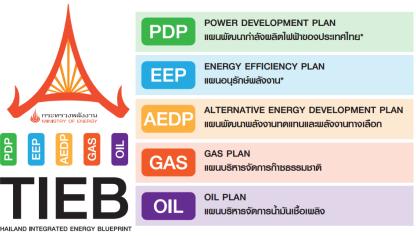






# Thailand National Energy Plan 2022

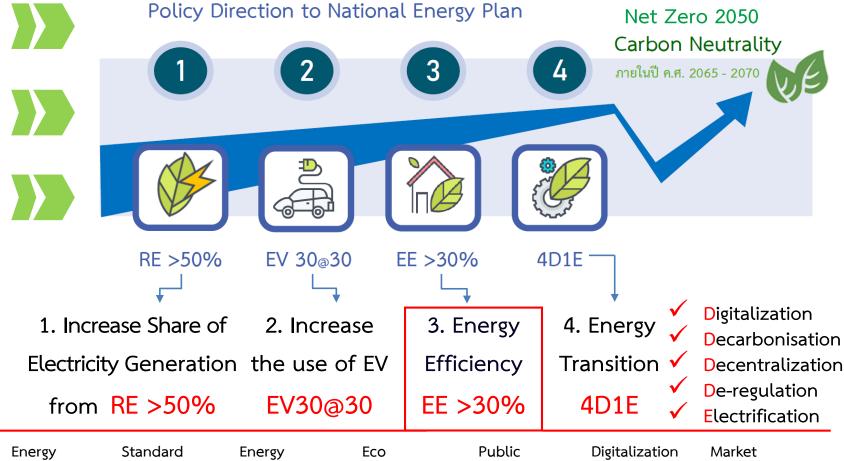
#### National Energy Plan 2018



## A Big Challenge

- Energy Transition
- Carbon Emission
- Technology Disruption
- Covid-19 Situation

## National Energy Plan 2022



Sticker

Perception

ENERGY

Smart /IoT

Labelling

Management

Codes

Source: Energy Policy and Planning Office

Mechanism





# Alternate Energy Development Plan

### **Community Power Plant**

#### **Current Implementation**



43 Pilot Power Potential for PEA purchasing

**149.50 MW**Average price
3.1831 THB/unit

#### **Power Purchasing from RE**

Power purchasing from RE (no fuel cost groups) in FiT type during 2022-2030

REs	FiT Rate (THB/Unit)	Duration (years)	Remark
Biogas	2.0724	20	Non-Firm contract
Wind	3.1014	25	Non-Firm contract
Solar Ground	2.1679	25	Non-Firm contract
Solar + BESS	2.8331	25	Partial-Firm contract

#### **Principles**

- Contract Capacity ≤ 90 MW
- Non-Firm contract for Solar

#### **Ground Wind and Biogas**

 Partial-Firm contract for Solar+BESS

## **RE Heat Subsidy**

Provide subsidy to invest in machines/equipment to produce heat from biomass and biogas in the form of Co-pay





## Solar Rooftop for People (Residential) project





**MEA** areas



PEA areas



Rate **2.20** THB/Unit



Purchasing duration 10 years (starting 2022 onward)





# Energy Efficiency Plan

# **EE Plan**



**Energy Conservation Promotion** 

Act. 1992 (Rev. 2007)

**Engineering Solution Energy Management** 





EnCon. Fund

**Build Confidence** 

Financial Incentive

Revolving Fund







Industry

Transport

Household Building

Agriculture









**EEP2024** 



**EEP 2024 - 2050** 

