

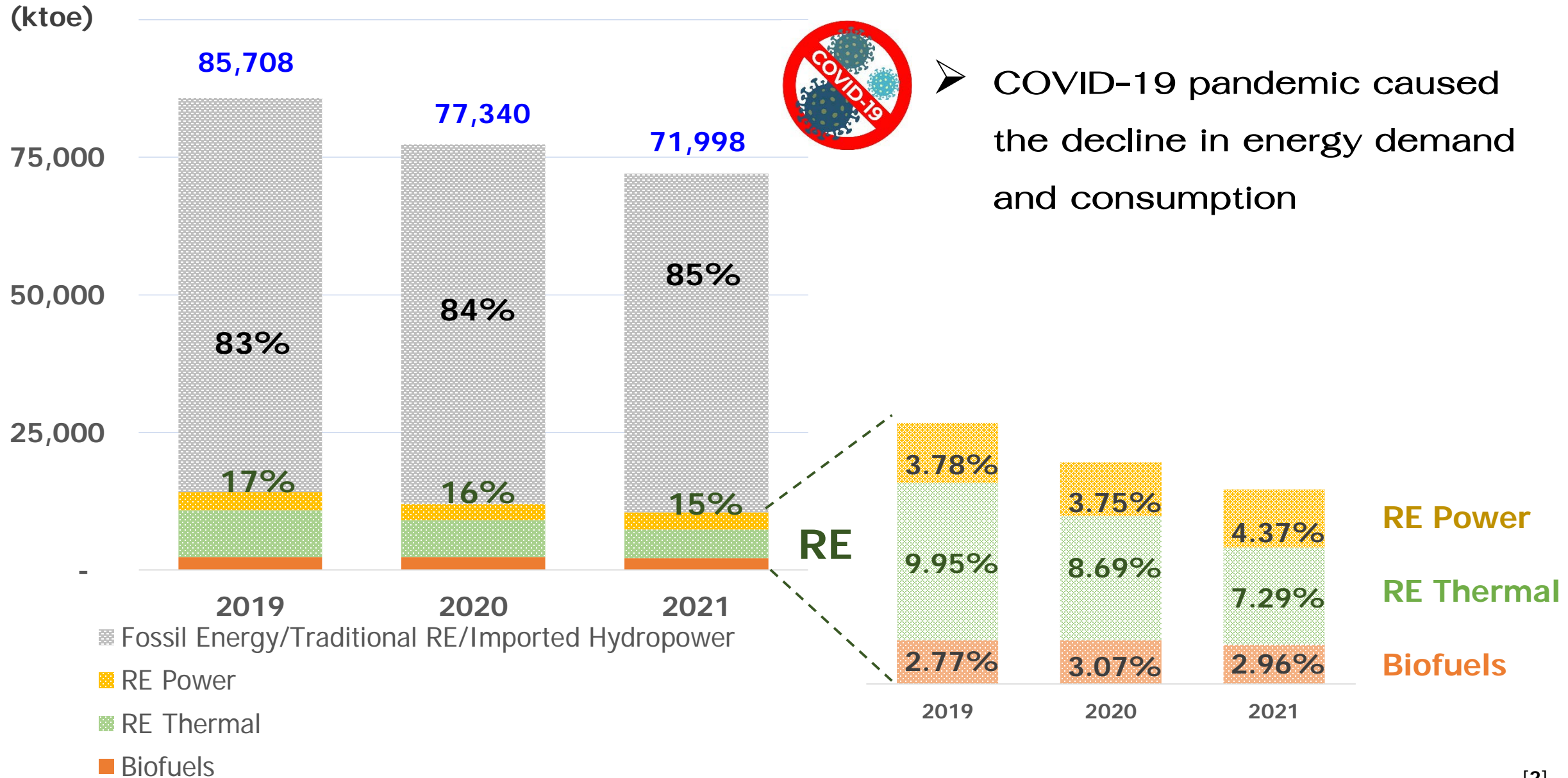
# Thailand's Economy Update

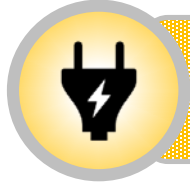
The APEC EGNRET 57  
5-7 October 2022  
Bangkok, Thailand





# Thailand's Final Energy Consumption





## Electricity

RE Power existing

**12,379 MW**

(18% of Power demand)



## Heat

RE Heat generated

**5,248 ktoe**

(19% of Heat demand)

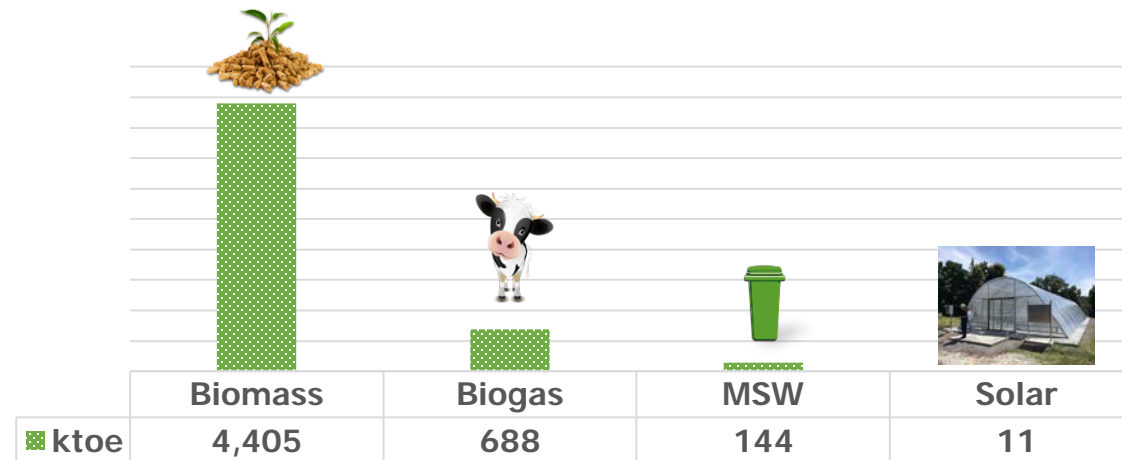
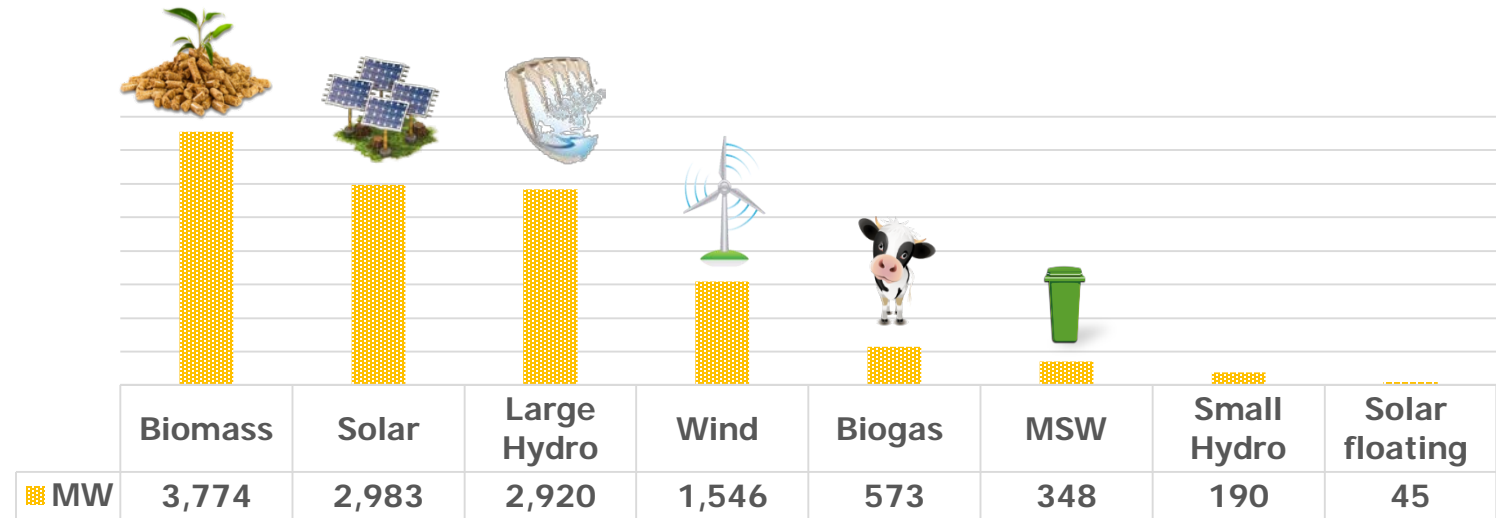


## Biofuel

Biofuel generated

**2,131 ktoe**

(7.7% of Fuel demand)



Ethanol	3.71 million liters per day
Biodiesel	4.58 million liters per day



## Policy Direction

**National Energy Plan (NEP)** will provide the development of policy direction in the energy sectors.

**Increase RE proportion in  
New Power Generation  
50% in 2040**

**Transform transportation  
sector to Green Electricity  
by 30@30 EV target**

**Increase Energy Efficiency  
to more than 30% by new  
technology and innovation**

**Energy Transition coping by  
applying 4D+1E strategy**

Carbon  
Neutrality  
2050

National  
Energy Plan  
2022



Oil & Gas  
Plan

Energy  
Efficiency  
Plan

Power  
Development  
Plan

- Intensifying the role of solar photovoltaic (PV) and wind power,
- Scaling up the use of solar thermal technologies in water heating and end-use sectors,
- Developing mechanisms to ensure effective thermal use based on renewable energy sources,
- Ensuring reliable, high-quality, affordable supply of biomass fuels while diversifying incomes for local farms and
- Devising a long-term transportation development plan focusing on electric or renewable-based vehicles and fuel types.

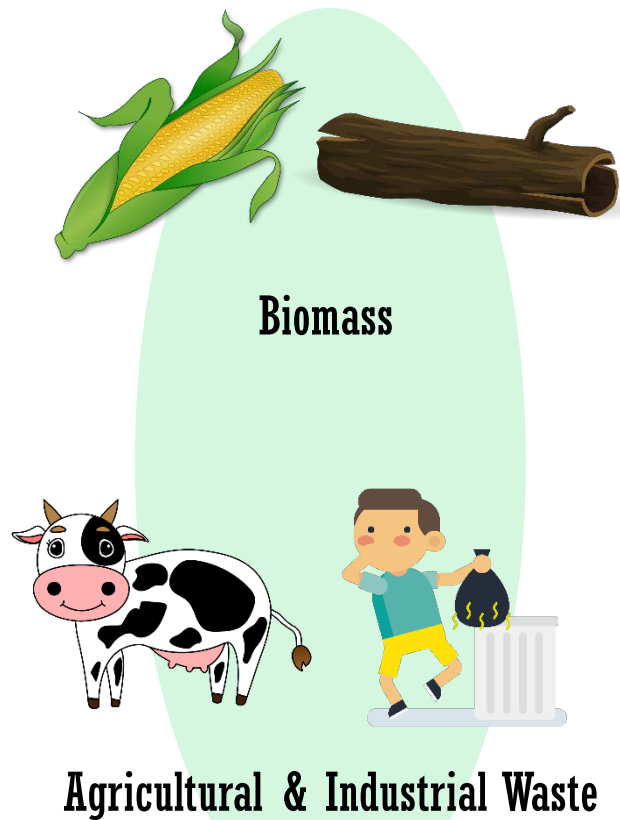
To minimize overall costs, Thailand has to develop a portfolio of complementary renewable energy sources, combined with intelligent control systems to manage variable sources, such as solar and wind energy.

By incorporating these options, Thailand can rapidly improve its renewable energy outlook, reduce costs and achieve greater energy security.

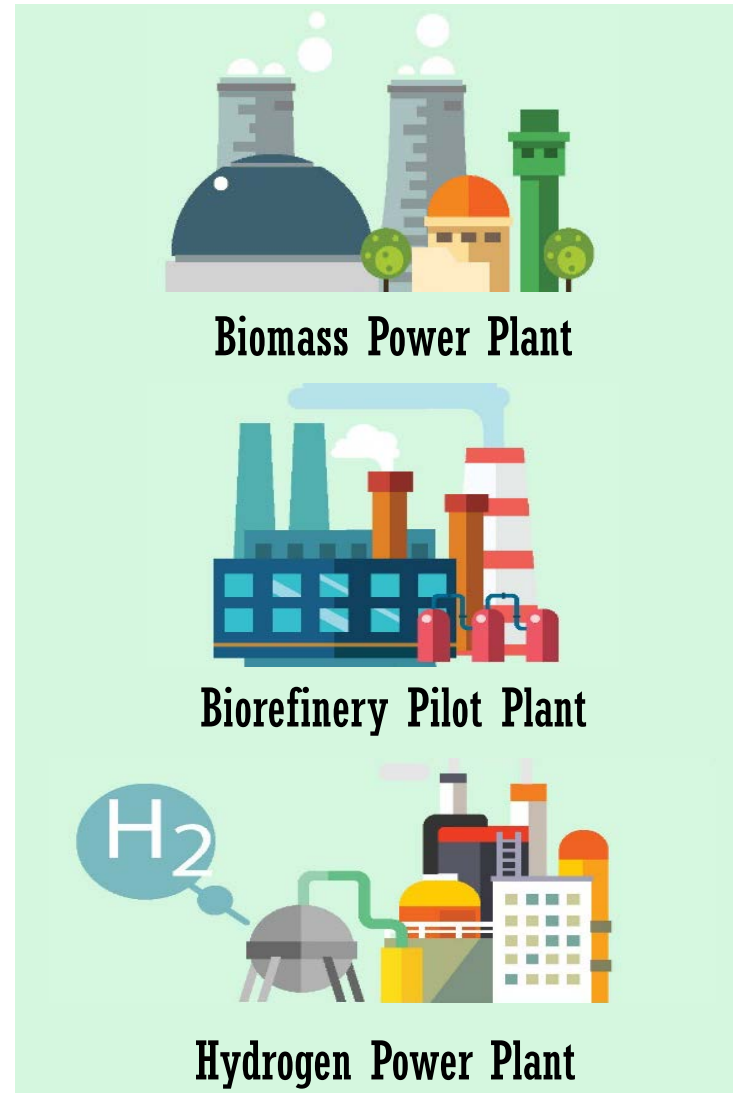


# Consolidation of RE to BCG Model

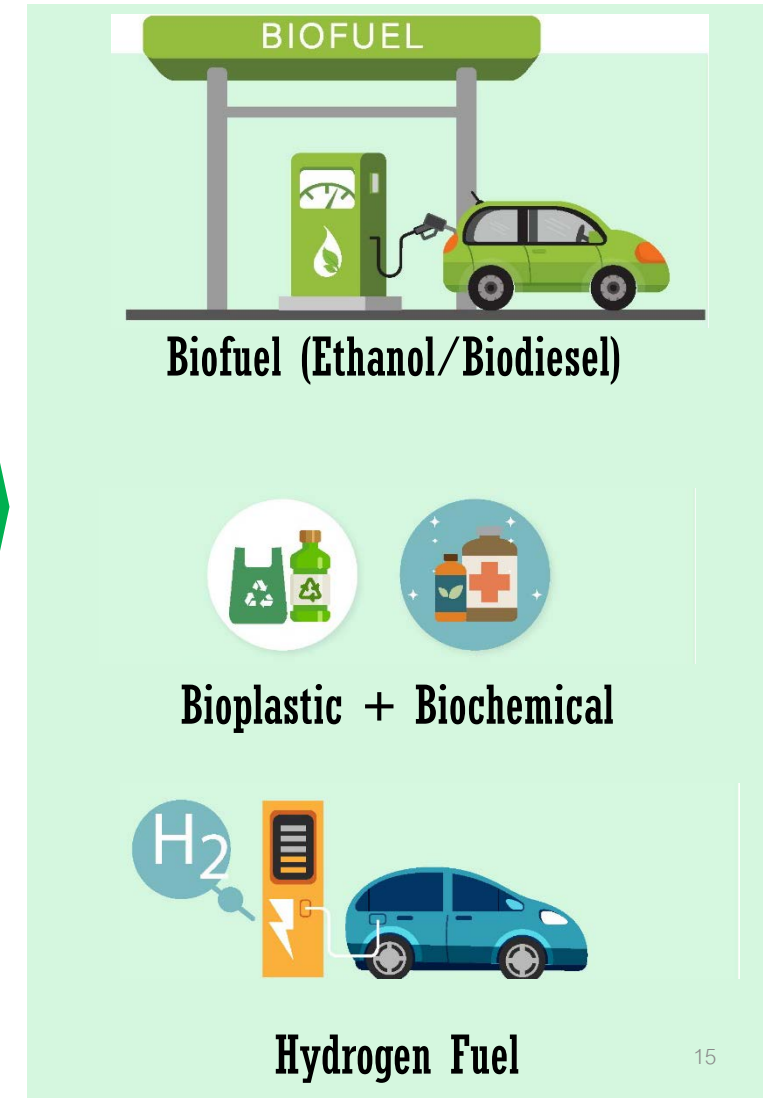
## Waste from Agri. Sector



## Investment Promotion



## Industrial Promotion





## BCG : Energy, Material and Biochemical Industries

Increase value of  
agri. products



Strengthen energy  
security



Bio-based industries  
development



Value increasing research  
for new industries





Thank you for  
your attention



Department of Alternative  
Energy Development and Efficiency  
**MINISTRY OF ENERGY**