



The Joint Meeting of Four  
Expert Groups of APEC EWG

# Utilizing Carbon-Free Energy Technologies to Expand Clean Electricity in APEC

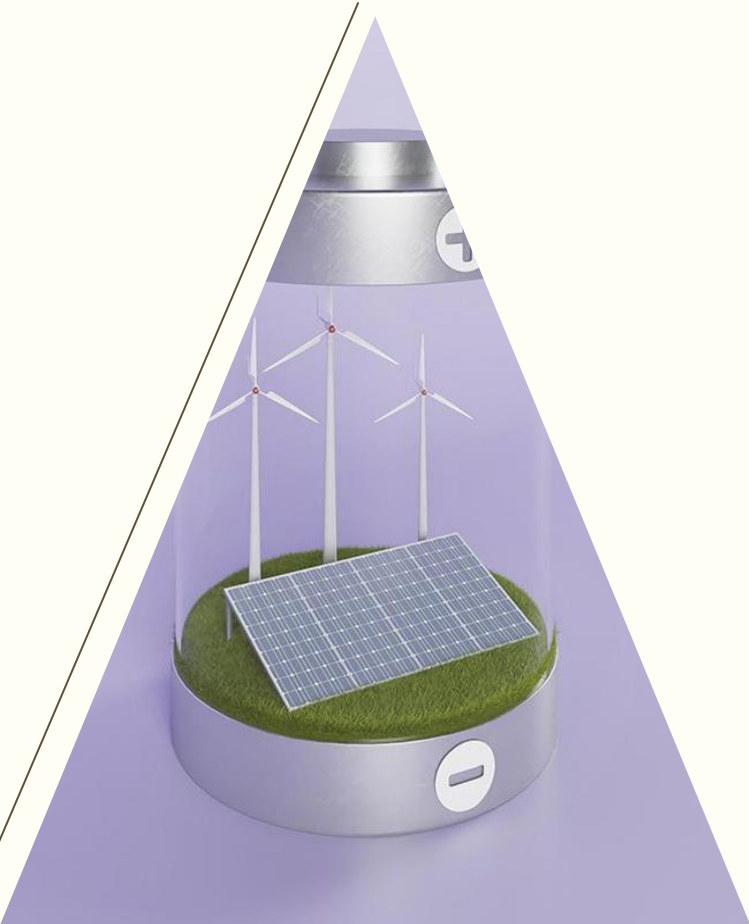
Energy Administration, MOEA  
CHINESE TAIPEI

9 April 2025



經濟部能源署

Energy Administration,  
Ministry of Economic Affairs



**01 Energy Situation**

**02 Key Strategies and Target**

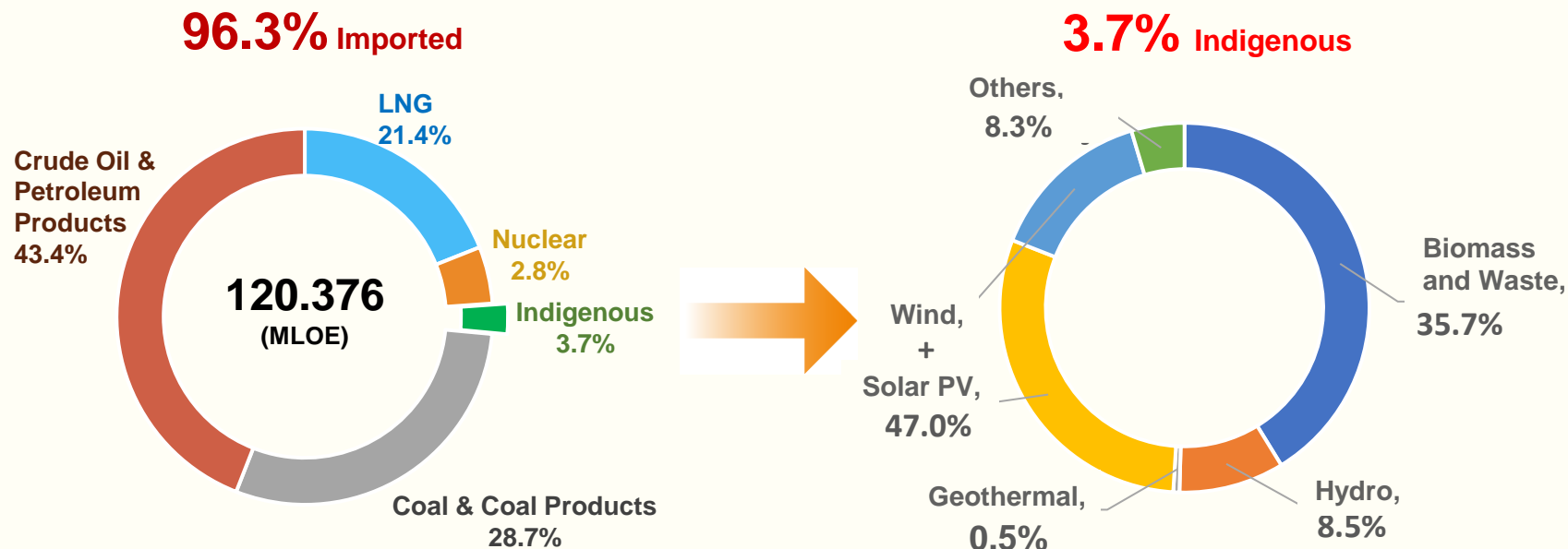
**03 Conclusions**

# Energy Mix in Chinese Taipei



- As for the energy mix in 2024, **imported** energy accounted for **96.3%**, and **indigenous** energy only provide **3.7%**, in which half contributed from **Wind, Solar PV and Hydro**.

## Total Energy Supply (2024)

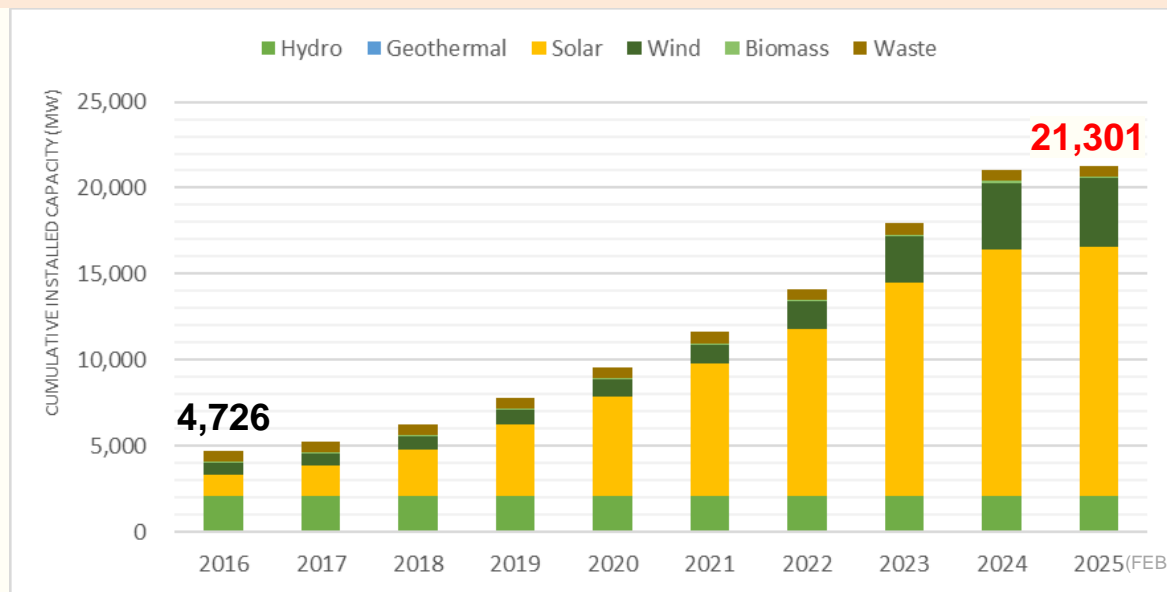


# Renewable Energy Current Situation



- As of February 2025, the cumulative installed capacity of RE has **increased 16.57 GW** compared to 2016.

## RE Installed Capacity



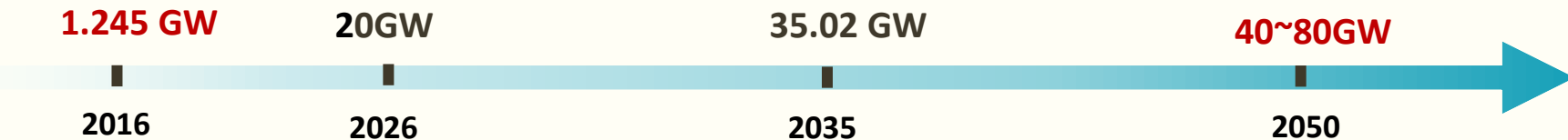
# Renewable Energy Targets



- We are driving the **Second Energy Transition** by **diversifying green energy sources**.
- Continue **deploying mature green energy systems, such as wind and solar power**. The Ministry of Economic Affairs (MOEA) has set a target to achieve a specific renewable energy capacity by 2026.
  - **Solar PV: 20 GW**
  - **Offshore Wind: 5.6 GW**
- Additionally, we focus on expanding green energy sources, including geothermal and ocean energy



# Targets and Strategies of Solar PV

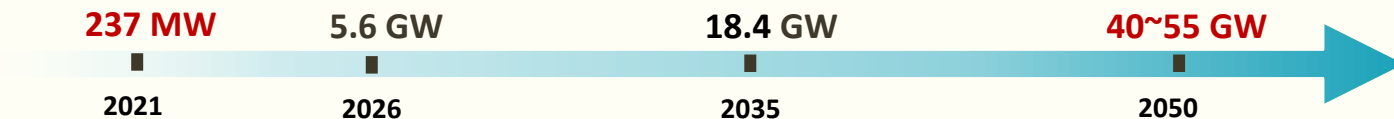


- Current PV Installed Capacity: **14.44 GW** by February 2025.
- Establishing an economic model that integrates **green energy** with **multiple purposes**, such as **aquavoltaics** or **agrivoltaics**.





# Targets and Strategies of Offshore Wind



**2017: 2 Demo Turbines (8 MW) @Miaoli**

**2021: 2 DIP Wind Farms (237.2 MW), included 2 Demo WT)**

- Formosa 1 @Miaoli (128 MW)
- Taipower 1 @Changhua (109.2 MW)

**2018: Completed capacity allocation**

**5.5 GW will be in commercial operation**

- By Selection: 3.836 GW
- By Auction: 1.664 GW

**2026 - 2035 :**

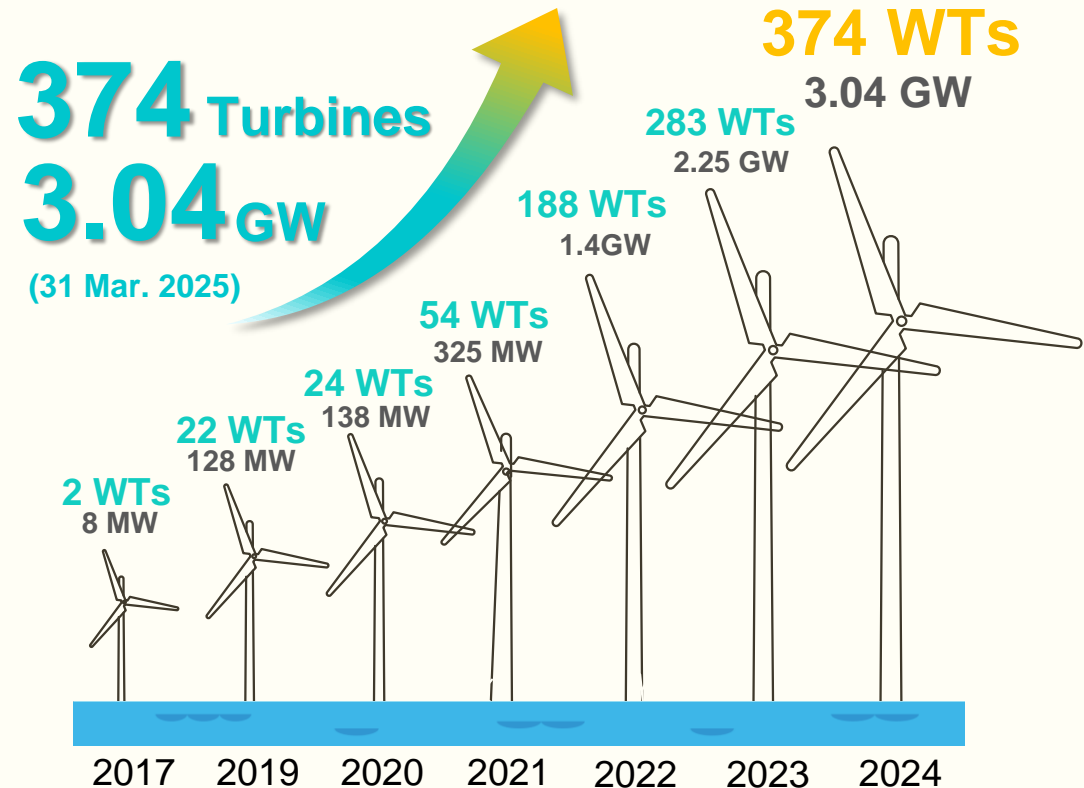
**(15 GW to be developed within 10 years)**

- 2022 & 2023:  
    **【Round 1】** 5 wind farms were allocated 2.3 GW in the selection for 2026-2027.
- 2024:  
    **【Round 2】** 5 wind farms were allocated 2.7 GW in the selection for 2028-2029.

# Achievements of Offshore Wind



CT's total offshore wind power installation capacity ranked **7<sup>th</sup>** globally in 2023 (GWEC, 2024) and surpassed **3 GW** in 2024.





# Operated Offshore Wind Farms in Chinese Taipei



Miaoli

**Formosa 1**

2019

**22 Turbines/  
128 MW**

Orsted  
Jera



Changhua

**Taipower 1**

2021

**21 Turbines/  
109 MW**



Miaoli

**Formosa 2**

2023

**47 Turbines/  
376 MW**



Changhua

**Greater Changhua**

2024

**111 Turbines/  
900 MW**



Changhua

**Changfang & Xidao**

2024

**62 Turbines/  
595 MW**



Changhua

**Zhongneng**

2024

**31 Turbines/  
300 MW**



Yunlin

**Yunlin**

2025

**80 Turbines/  
640 MW**



# Expand Clean Electricity for Net-Zero



- CT aims to **diversify its green energy sources** by continuing the deployment of **mature technologies** such as wind and solar power, while also **advancing carbon-free energy technologies** including geothermal and ocean energy.
- We welcome international cooperation on renewable energy development to ensure a stable and sustainable supply of clean electricity.





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# Thank you very much for your attention.

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