



The Joint Meeting of Four
Expert Groups of APEC EWG

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

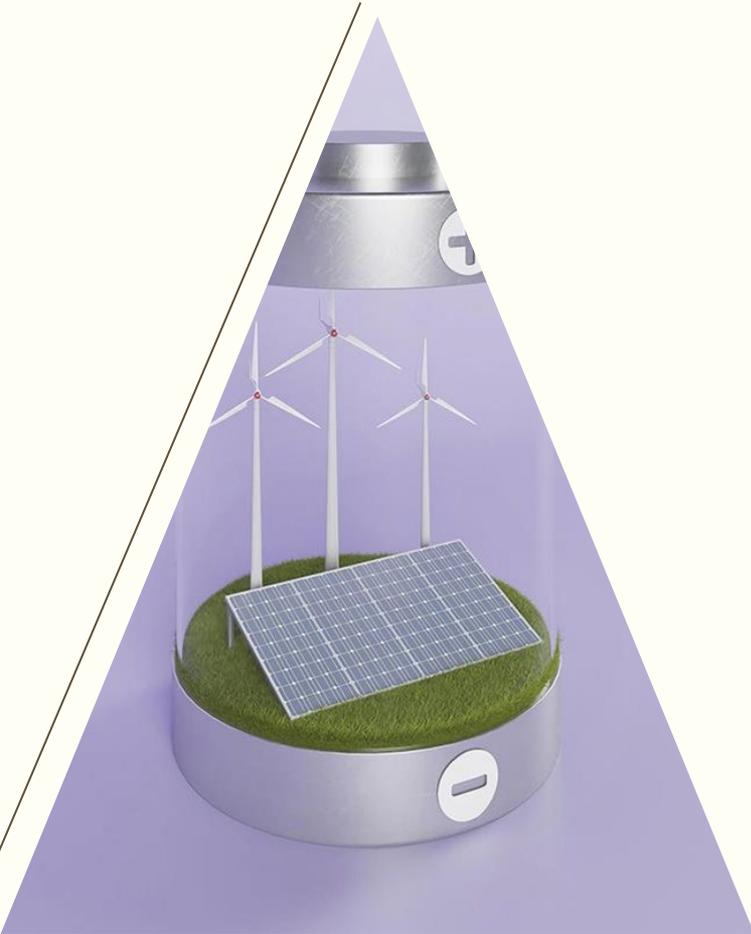
Energy Administration, MOEA
CHINESE TAIPEI

9 April 2025



經濟部能源署

Energy Administration,
Ministry of Economic Affairs



01 Energy Situation

02 Key Strategies and Target

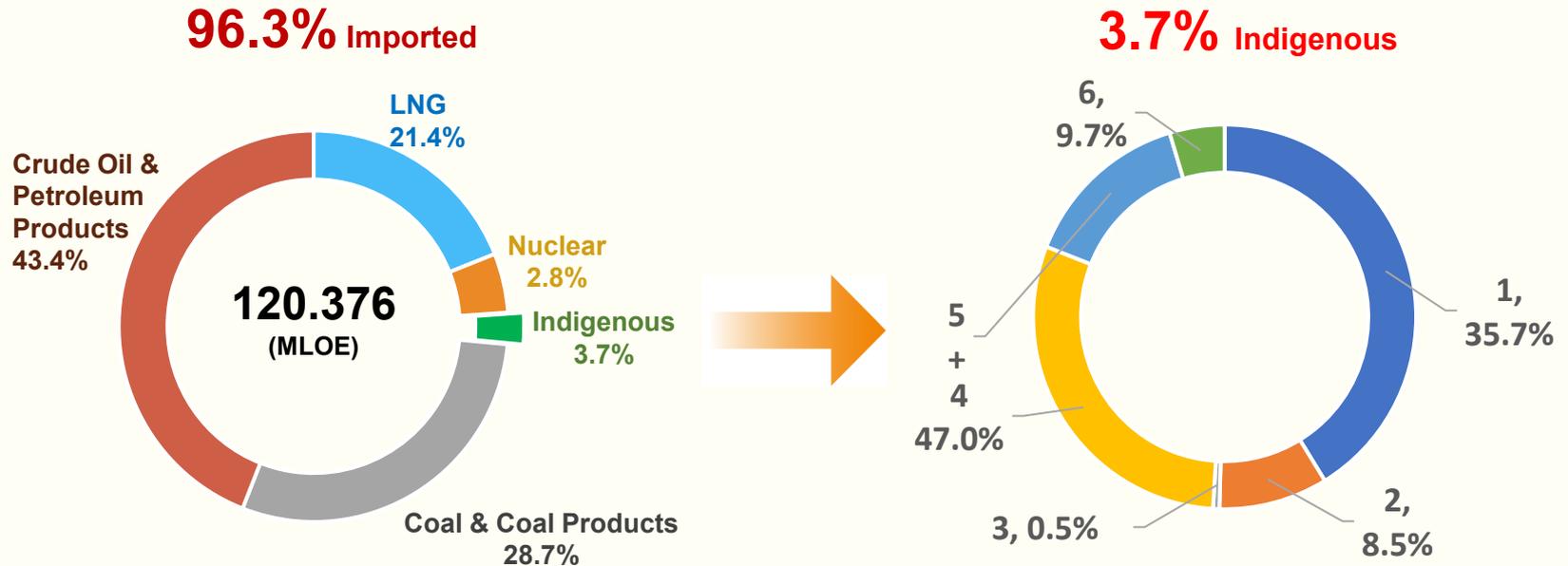
03 Conclusions

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)

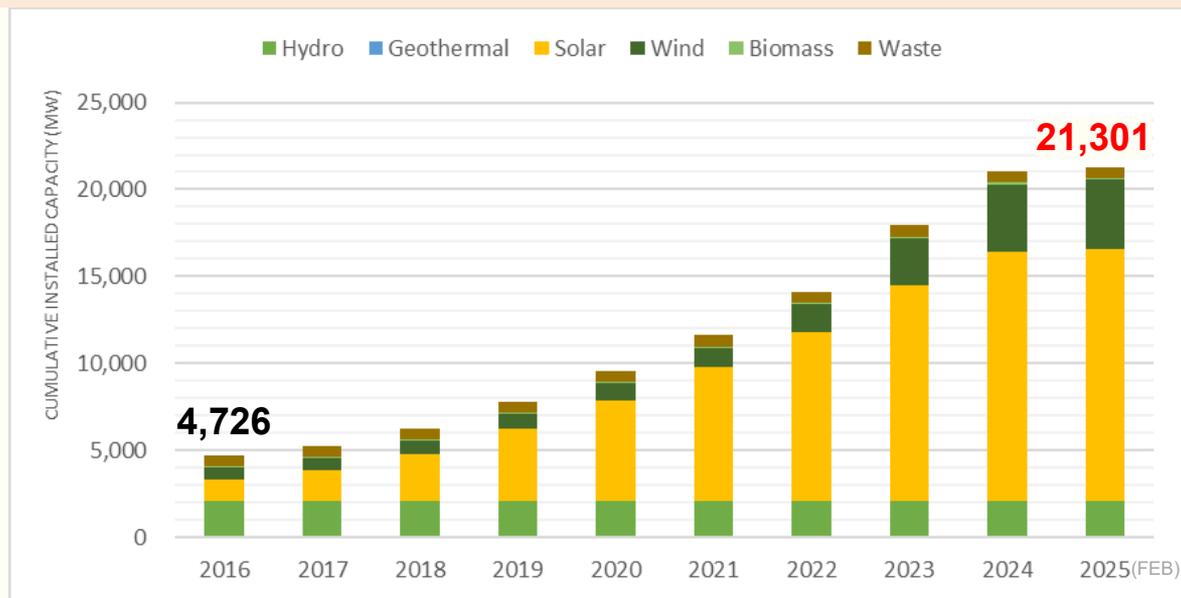


Renewable Energy Current Situation



- 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



1.245 GW

20GW

35.02 GW

40~80GW

2016

2026

2035

2050

8 GW
Rooftop

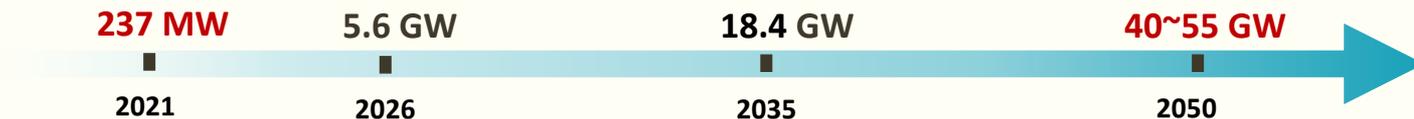


15 GW
Ground-mounted

- 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 :

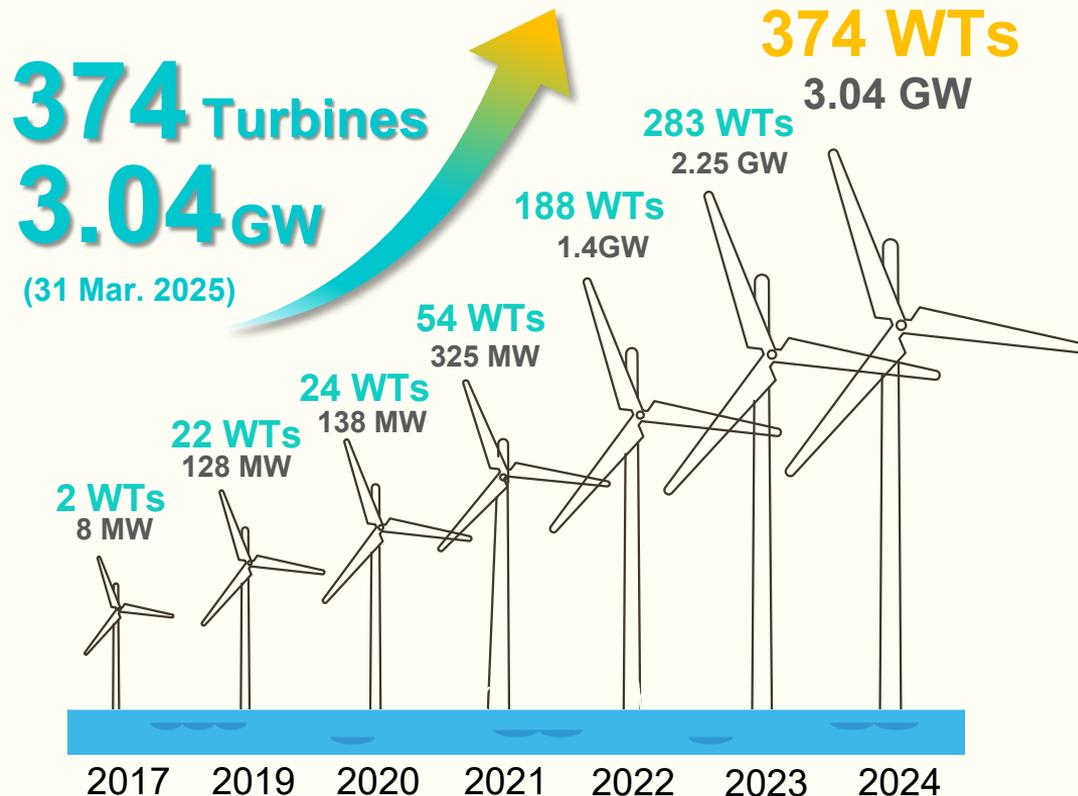
(15 GW to be developed within 10 years)

- 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 **7th** globally in 2023 (GWEC, 2024) and surpassed **3 GW** in 2024.



Source: Energy Administration (2025)

Operated Offshore Wind Farms in Chinese Taipei



Miaoli



Changhua



Miaoli



Changhua



Changhua



Changhua



Yunlin

Formosa 1

2019

**22 Turbines/
128 MW**

Taipower 1

2021

**21 Turbines/
109 MW**

Formosa 2

2023

**47 Turbines/
376 MW**

Greater Changhua

2024

**111 Turbines/
900 MW**

Changfang & Xidao

2024

**62 Turbines/
595 MW**

Zhongneng

2024

**31 Turbines/
300 MW**

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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