



經濟部能源局

BUREAU OF ENERGY, MINISTRY OF ECONOMIC AFFAIRS



Renewable Energy Update Chinese Taipei

Jo-Lan Lin

Deputy Counselor

Energy Technology Division

Bureau of Energy, MOEA

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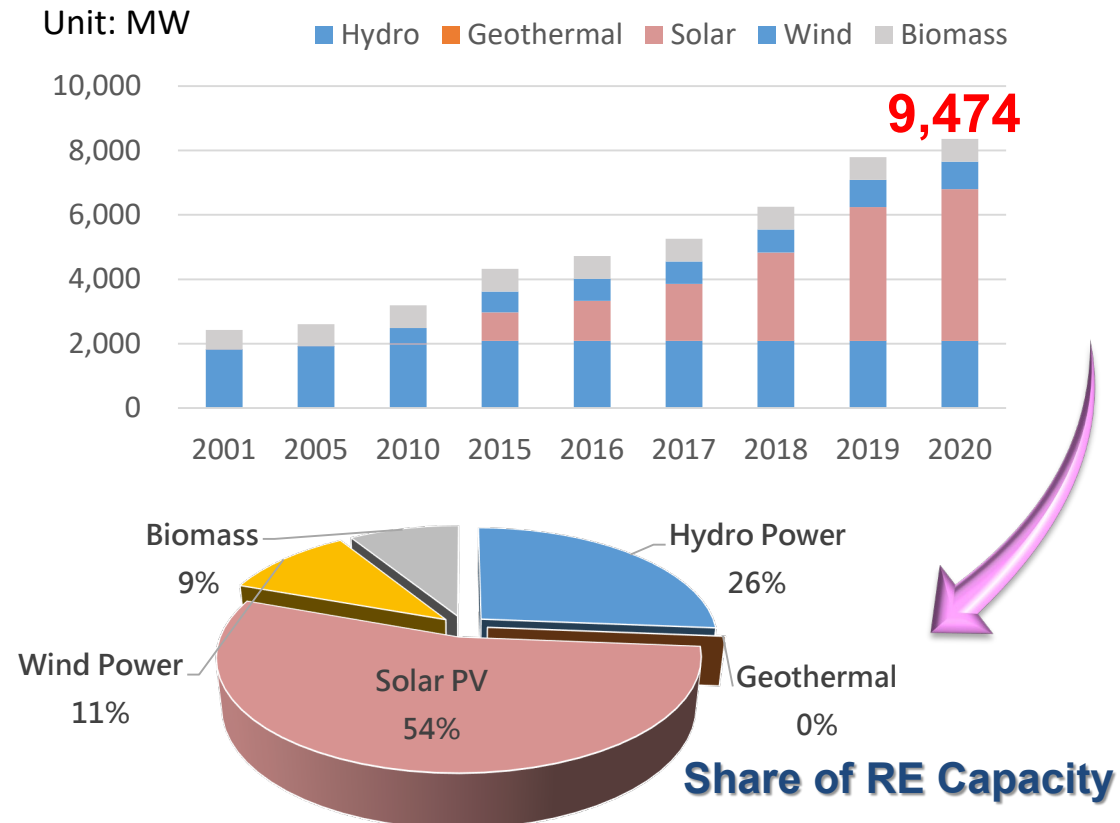


1. Renewable Energy Situation

- The government has set a target of **20%** renewable energy generation by 2025.
- The total installed capacity of renewable energy was **9,474 MW** by the end of **2020**.
- **Solar PV** and **offshore wind energy** have become our main focuses of planning.

		Power Capacity (MW)
		2025(f)
Solar PV		20,000
Wind	onshore	1,200
	offshore	5,738
Geothermal		200
Biomass		813
Hydro Power		2,150
Fuel Cell		60
Total		30,161

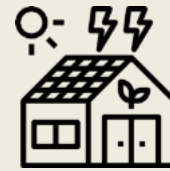
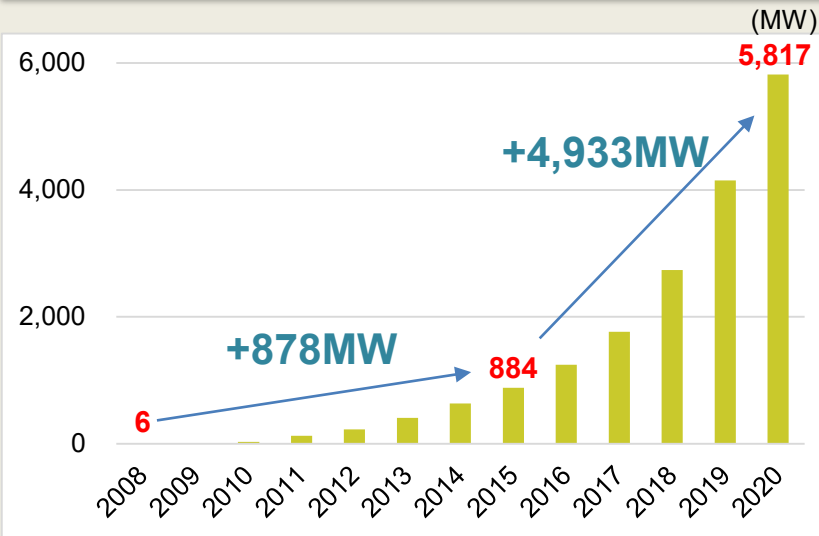
Source: Bureau of Energy (2020)





2. Renewable Energy Development : Solar PV

Annual cumulative installed solar PV capacity



4.12 GW



1.78 GW

- The installed solar PV capacity **grew rapidly**, reaching **5.9 GW** by the **end of Feb. 2021**.
- A **taskforce** in September 2020 was set to accelerate solar photovoltaic deployment.
- **The PV-ESCO** business model is established to reduce financing burdens and to take care of the application process for site providers.



Tainan County Salt Industry Land



Zhangbin Industrial Park



Chiayi County Salt Industry Land

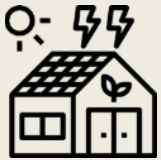
2. Renewable Energy Development: Solar PV



Solar PV: Target and Strategies

2021 8.75 GW

2025 20 GW



8 GW by 2025

Promote four-type rooftops by relaxation of building regulations :

Including industrial plants, public buildings, agricultural facilities and others to increase another 3 GW capacity.

Public Buildings



Factories



Agricultural Facilities



Others



National Museum of Marine Biology & Aquarium



Meikuei Farm



12 GW by 2025

- **Optimize land use:** promote multi-purpose utilization, e.g., PV-integrated fish ponds.
- **Environmental and Social Assessment:** mitigate environmental and social conflicts to speed up the application of specific districts



Closed Landfills

Water Reservoirs

Aquaculture Production Areas

Severe Land-Subsidence Areas



Agongdian Reservoir



Photovoltaics-coexisted fishing pond

2. Renewable Energy Development : Offshore Wind



Target: 5.7 GW by 2025

Phase 1

Demonstration Incentive Program

- **Incentives for Pioneers**
- Subsidy for 2 Wind Farms by 2020 (238 MW)

Phase 2

Zone Application for Planning

- **Transition Period**
- 36 Zones of Potential (totally 5.5 GW allocated)

Phase 3

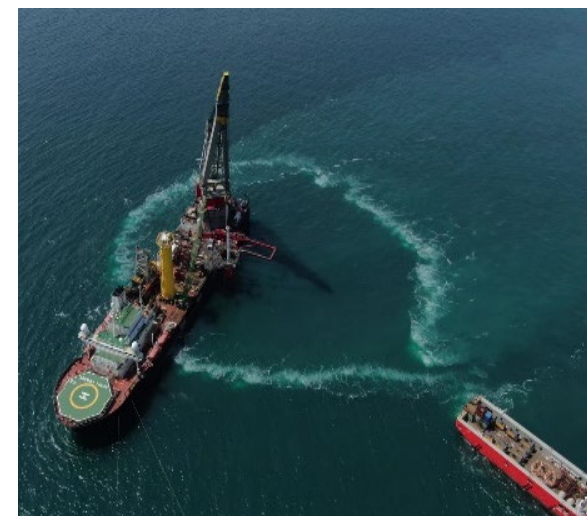
Zonal Development

- **Self-sustaining Industry**
- Optimal Resource Utilization



First commercial-scale offshore wind project

Wind farm noise reduced by air bubble curtain



2. Renewable Energy Development : Offshore Wind

Phase 3

DRAFT VERSION

2026 - 2035 Total capacity 15 GW

Capability Review & Bidding Process

2026 - 2031
Release capacity: 9 GW

2032 - 2035
Release capacity: 6 GW



Stage 1 : Year-based capacity installation

Period 1

- Grid-connection year: **2026 -2027**
- Alloc.: **3 GW**
- Selection:
Q2-Q3 2022

Period 2

- Grid-connection year: **2028-2029**
- Alloc.: **3 GW**
- Selection :
Q2 2023

Period 3

- Grid-connection year: **2030-2031**
- Alloc.: **3 GW**
- Selection:
Q2 2024



Stage 2

Further planning would be based on the results of stage1 and the international technology development.

Qualifications of Application: EIA consent and financial criteria passed

3. Conclusion

- Green energy is **the core of energy transition** in Chinese Taipei.
- Main Target : Share of Renewable Energy increase to **20% by 2025.**
- We are looking forward to **further collaborating** with experts and member economies in APEC region in the development of renewable energy and innovative energy technologies.





Thank you



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