



July 30, 2025



# Outline

- 1. Background
- 2. Taiwan's Geothermal Energy Pathway
- 3. Geothermal Energy Strategies
- 4. What's Next
- 5. Conclusion



# **Background-2050 Net-Zero Emissions Policy**



12 Key Strategies

**Transition** 

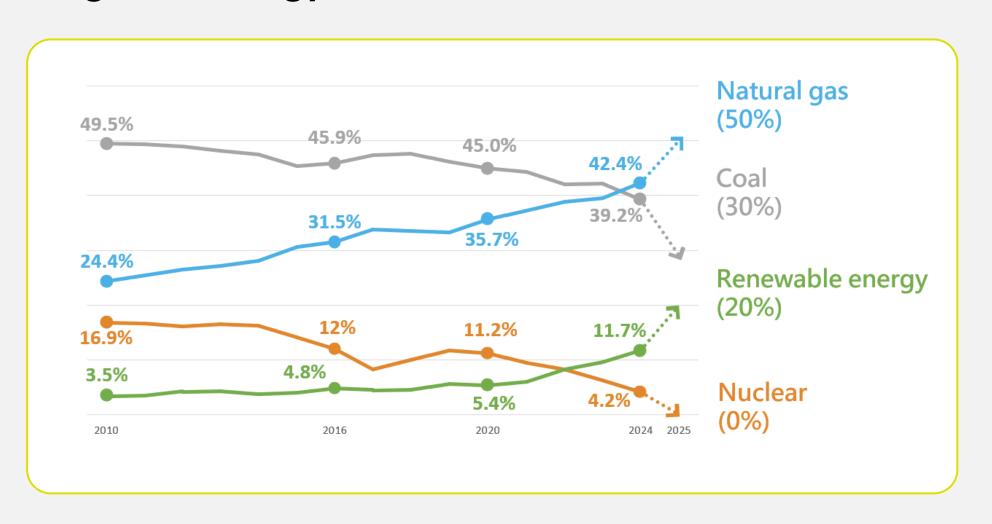


As a local, stable, and sustainable green energy source, geothermal energy plays an important role in our strategy.



## **Background-2050 Net-Zero Emissions Policy**

# Clear targets and pathways for the energy transition to increase green energy and reduce coal.

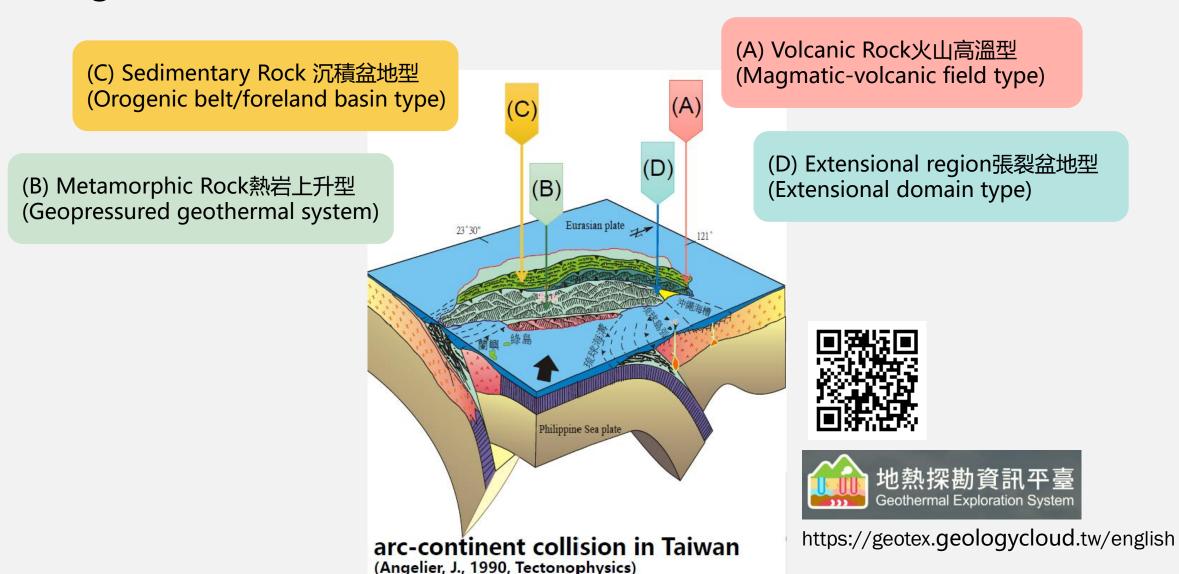




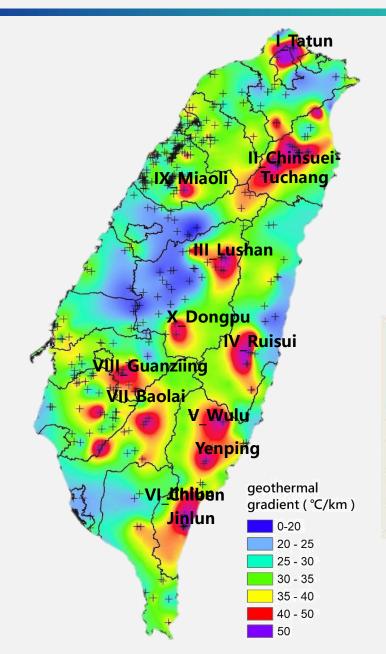
# Pathway of Geothermal Energy in Taiwan

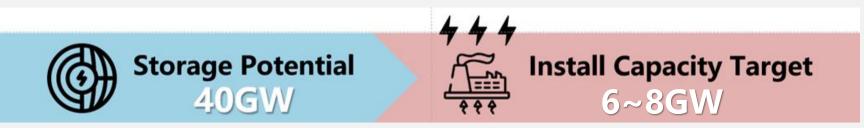


#### Geological & Geothermal Framework in Taiwan









#### **Best-10 areas for AGS in Taiwan: Geothermal Everywhere**

	unit	Potential Regions									
		l ITatun	II Chinsui- Tuchang	III Lusan	IV Reisuei	V Wulu- Yenping	VI Chiben- Jinlun	VII Baolai	VIII	IX Miaoli	X Dongpu
Volume	m³	809	2,774	1,096	1,237	1,900	2,011	1,412	1,254	431	780
Average Temp.	°C	235	227	236	219	225	215	212	215	217	219
<b>Heat Content</b>	10 <sup>18</sup> J	245.2	795.0	322.0	334.7	530.8	531.1	360.2	324.3	133.6	209.2
Power available	GWe	2.7	8.5	3.7	3.5	5.6	5.4	3.6	3.3	1.2	2.2



2030



**20MW** 

2025

Accelerate
development of deep
geothermal wells &
Increase installed
geothermal capacity
to GW level

Successfully replicate/expand development into next-generation geothermal wells Enhanced Geothermal Systems (EGS) & Advanced Geothermal Systems (AGS)

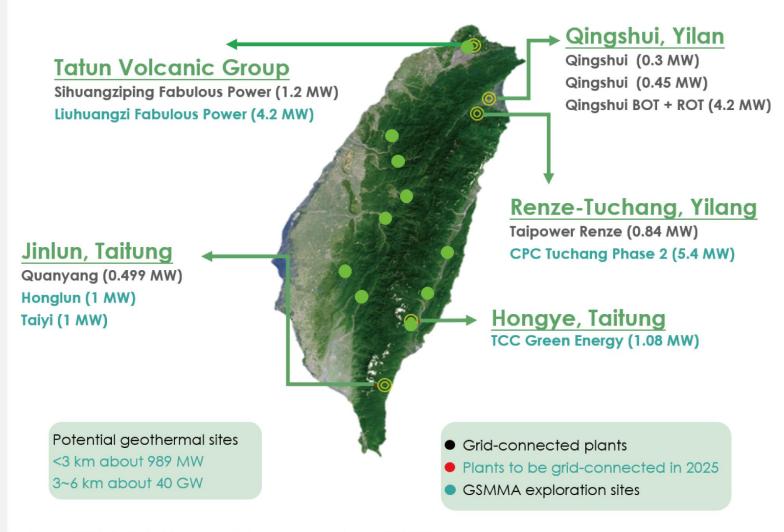
Policy support & Resource investments

Accelerate developments of shallow geothermal wells with mature technology

State-owned enterprises (CPC & Taipower) bring in drilling technologies & replicate success with multi-team/multi-location developments and establishment of a demonstration site



## As of 2025, installed capacity totaled 7.49MW





Qingshui Geothermal Power Plant

<u>Taipower Renze</u> <u>Geothermal Power Plant</u>



Quanyang Geothermal Power Plant



<u>Sihuangziping Pilot</u> Geothermal Power Plant



Qingshui BOT Geothermal Power Plant



# Strategies of Geothermal Energy in Taiwan



### Regulations to support geothermal development

- June 2023: Amendment of the Renewable Energy
   Development Act
- May 2024: Issuance of the Geothermal Exploration Development Permit and Management Regulation



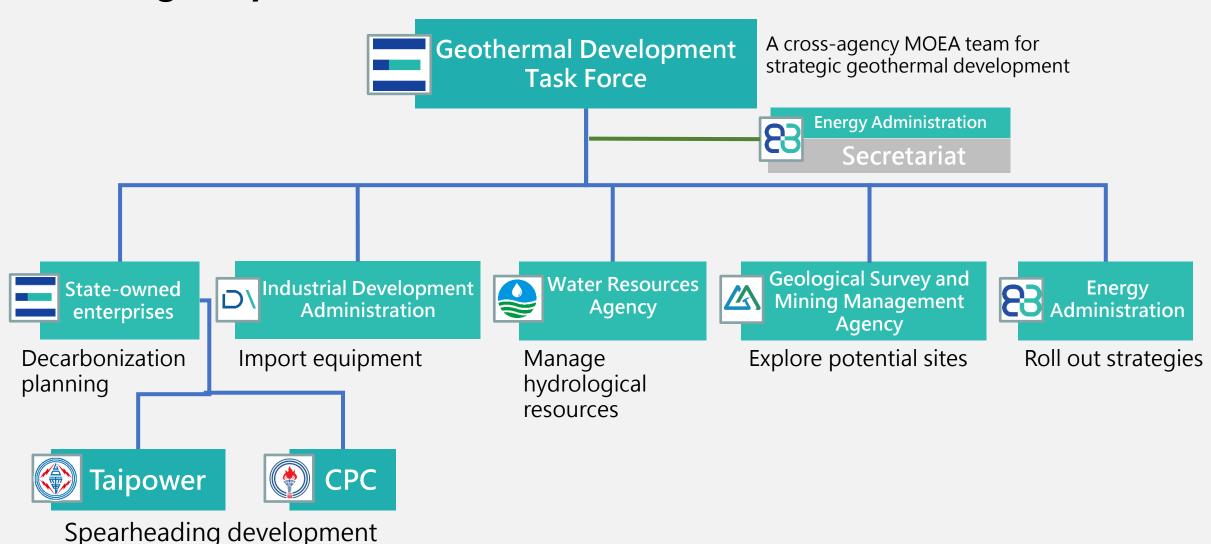








#### **Cross-agency collaboration**









## Taipower's Prospects and Strategies

#### **Four-Arrows Action**

#### **Arrow 1**

Scaling Up and Integrating Demonstration Sites

#### Arrow 2

Bringing Drilling
Expertise to Local
Fields

#### Arrow 3

Global Teamwork for Next-Generation Technologies

#### Arrow 4

Boosting Local Cooperation to Drive Private Projects



#### What's Next

Import technologies thorugh international collaboration & Encourage investment from private sector



Strengthen financial incentives & Develop FiT for next-generation geothermal energy



2050

6GW

Accelerate negotiations with Indigenous communities & Establish guidelines and standards



Taiwan's Global Opportunity

Capitalize on geothermal potential & Coordinate with National Parks



Opport

State-owned enterprises pave the way for replication of successful models





### **Conclusion**

- Accelerating the promotion of geothermal development from three aspects: incentive measures, information disclosure, and regulatory streamlining.
- Creating an investment-friendly environment by simplifying administration and improving public convenience.
- Accelerating energy transition and achieving net-zero emissions by cooperating with all partners.

