2019 UN Climate Change Conference (COP25)

Tainan - Low-carbon and sustainable city

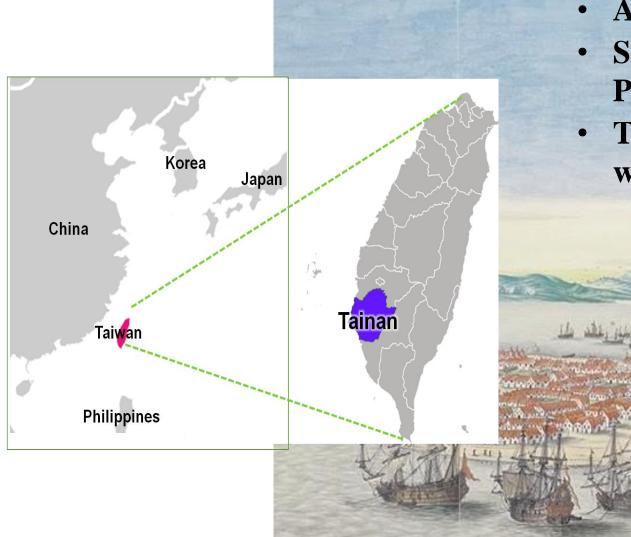
Dr. Yuan-Chung Lin

Director-general, Environmental Protection Bureau of Tainan City Government, Taiwan

December 10, 2019

TAINAN



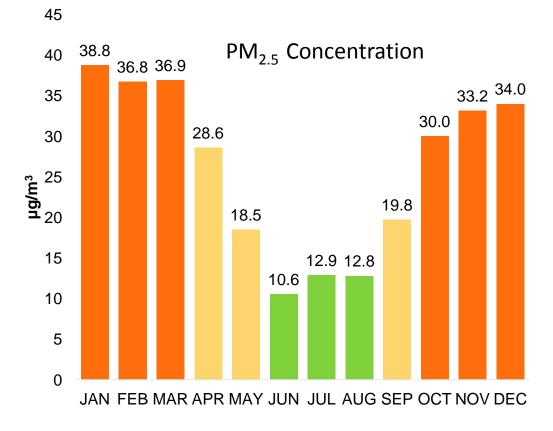


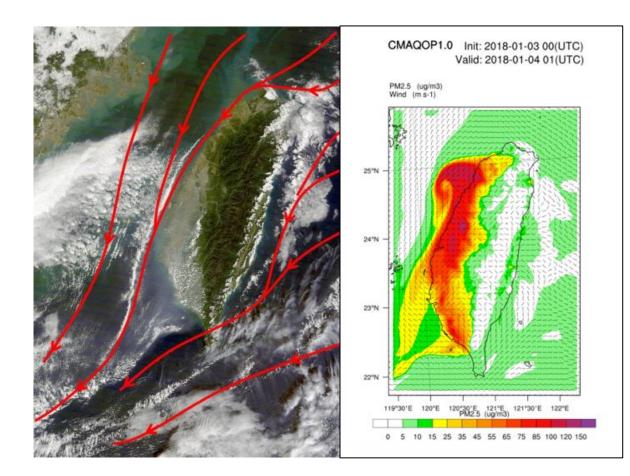
- Area 2,100 km² · Population 1.88 million.
- Southwest part of Taiwan, center of Chianan Plains, the largest plain.
- The former capital of Taiwan, founded in 1624 with historic Cultural heart of Taiwan.

Challenge of Air pollution PM_{2.5} - **Transboundary**



Seasonal factor + Geography factor





Challenge of Air pollution PM_{2.5} - Domestic



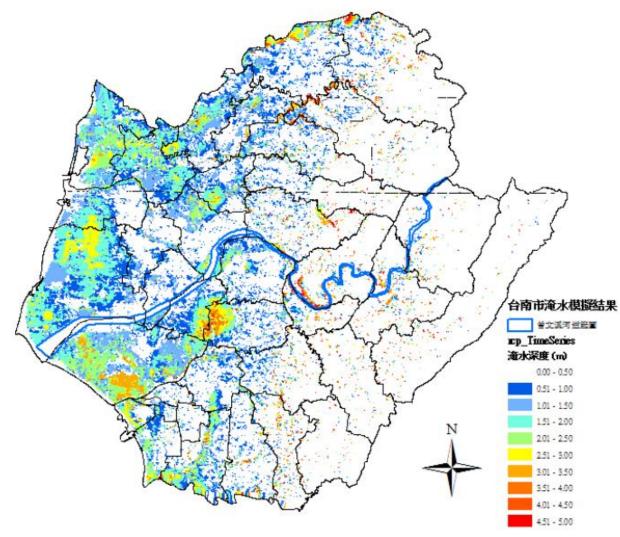
581,809

1,302,538

PM_{2.5} | **1,622 tons NOx** | **17,338 tons**

Derso

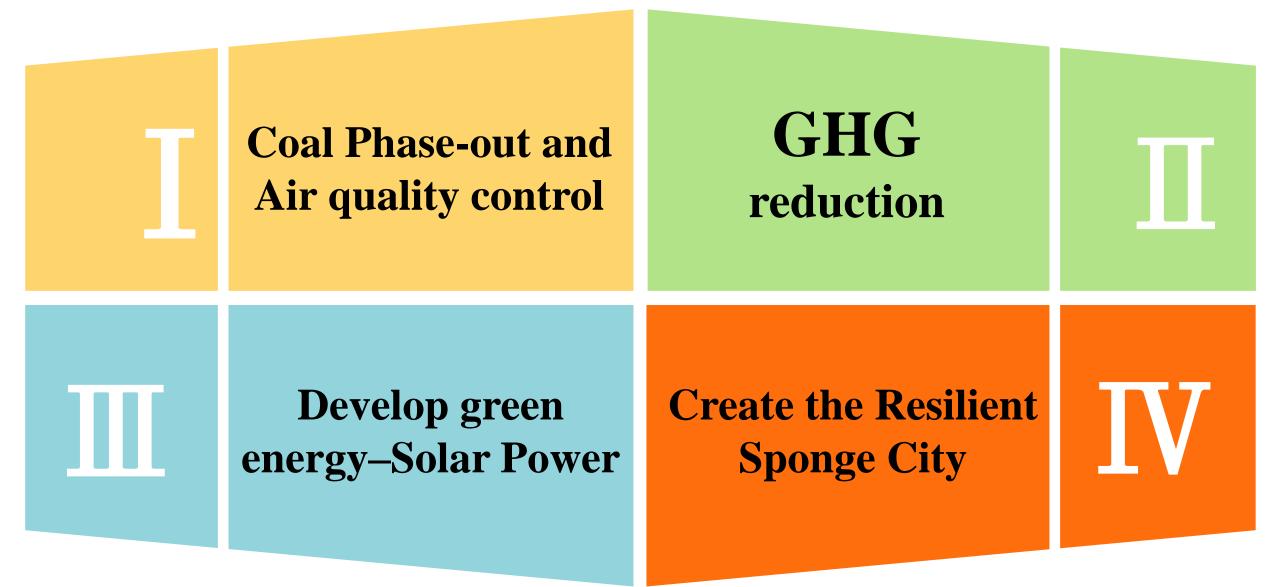
Challenge of extreme climate and flooding TAINAN



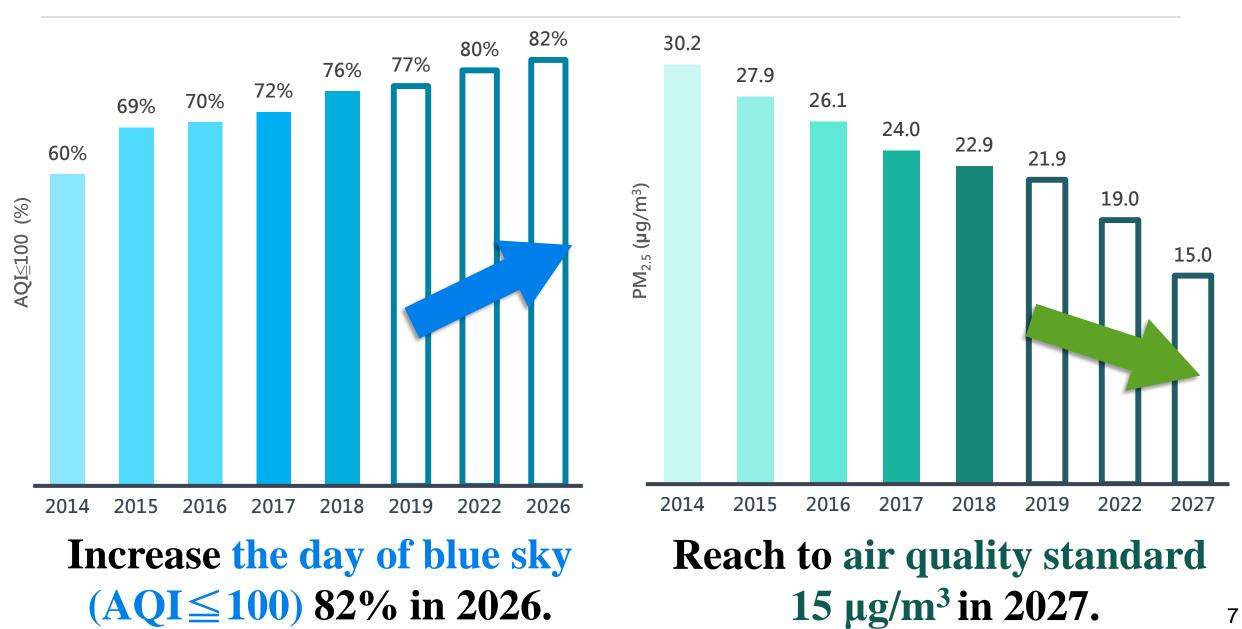
• Tainan's potential flooding area is about 450 square kilometers, accounts for one third among the nation.



Action Strategies



Air quality control target



GHG reduction strategy



Coal Phase-out and Air quality control

55萬

34萬

103年

54萬

28萬

104年

53萬

24萬

105年

37串

23萬

106年

Approved permission of coal used.

TAINAN

Application of actual usage.

••• Number of coal burning boiler.

34萬

107年

19萬26萬

108年

Analysis and testing the efficiency of control devices. Approve the permit until emission decreased.

Decrease the permission of coal used.

Decrease the valid time period of coal from 5 years to 2 years.

Target : Coal burning boiler phase out in 2020.

GHG reduction action

Energy users management

GHG emisssions accounting and disclosure



Promote low emission fuel. Implement energy saving.

Implement GHG emissions accounting. Promote Carbon footprint label.

TAINAN

Develop green energy –Solar Power

Five Roof Type

Solar Roofs

Solar Dormitories

Solar Communities

Green Factories

Agricultural Tunnels

Five Ground-based Type

Salt Field

Water Space

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Green Energy Land-use

Green Energy Facilities

Landfill

Develop green energy –Solar Power

For Now, Installed capacity 1.051GW

OUR GOAL

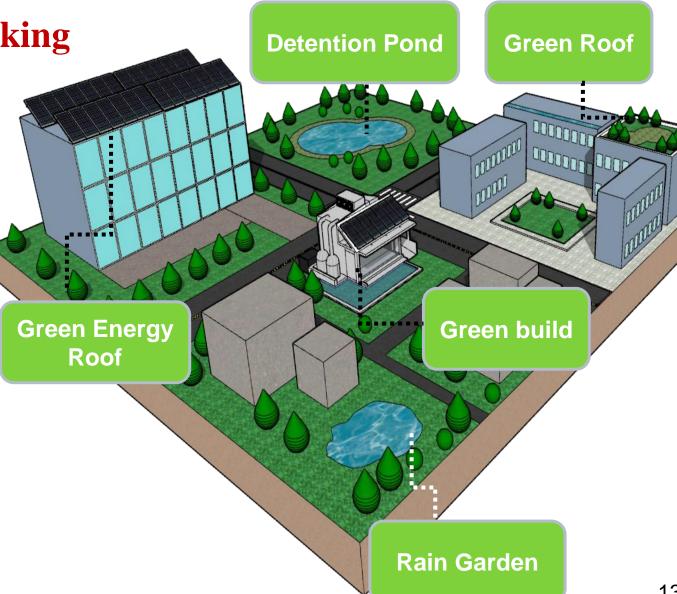
TAINA

Installed capacity 2022 - 2GW Equivalent to 2 nuclear power plants.

Create the Resilient Sponge City TAINAN

Self-Government Rules for Making Tainan a Low Carbon City

- Require to obtain green buildings
 Label
 - Qualified lebel for private.
 - Silver lebel or higher for public.
- Set renewable generating system or Green roof.
- Flood prevention facility for designated land development
- Confirm the soil water content



Build the Resilient Sponge City TALAN

During 2013 to 2018, rainwater retention facility or flood detention pond have increased to 290,000 cubic meters.



Contribute to building a global sustainable environment







We are Breathing the Same Air, Standing on the Same Land. We Only Have One Earth.