



COP24 · KATOWICE 2018
UNITED NATIONS CLIMATE CHANGE CONFERENCE

Taipei Green Action



Reference: <https://bit.ly/2PTYZwl>

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DEPUTY COMMISSIONER

DEPARTMENT OF ENVIRONMENTAL PROTECTION

TAIPEI CITY GOVERNMENT

2018/12/05

Taipei City Profile



Small Area with Massive Population

High Vehicle Density

Recycling

- Recycling rate : 62%
- Waste Quantity Reduces 67%
- Recycling Rate Grows 20 times

Greenhouse Gas Emission

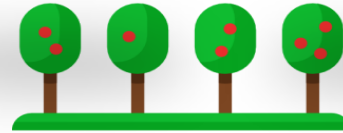
- The residential sector & commercial and institutional sector : 72%
- The transportation sector : 20.2%

Reduction Target

- Reduce 25% of 2005 GHG emissions levels by 2030.
- Reduce 50% of 2005 GHG emissions levels by 2050.

Renewable Energy

- 3% → 10% by 2025



Area
271.8 km²
(55% Mountain & 45% Plain)



Annual Precipitation
2,519.2 mm



Population Density
9,872 persons/km²

Population
2.7 million

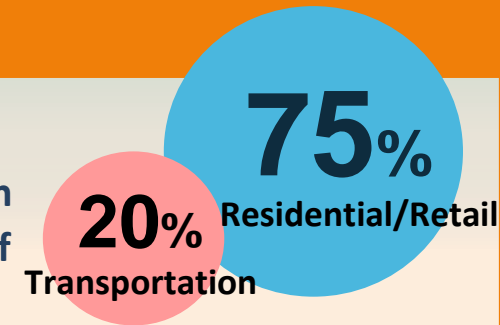
Taipei City's current CO₂ emission trends



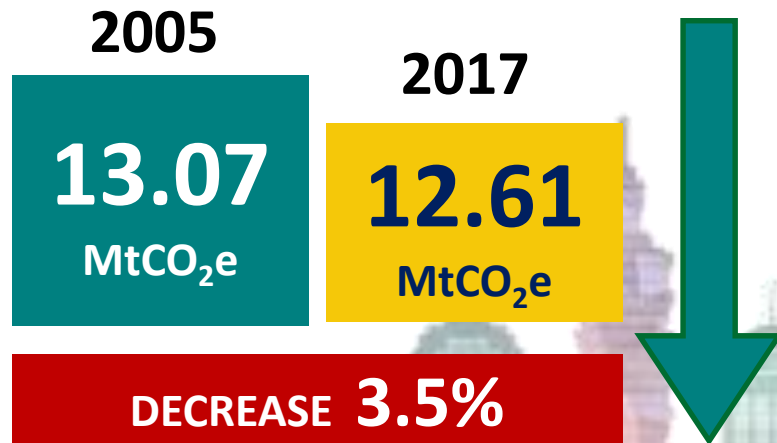
The GHG Emission Source

Industrial structure : Service industry/Business/Residence and Retail

GHG Emission characteristics : The primary and secondary emission source are sector of residence/retail and transport, because of intensive transportation network (bus /MRT /railway)



Performance of Carbon Reduction



Carbon Disclosure Platform



Carbon Disclosure Project



cCR (carbonn® Climate Registry)

Inventory data conform to MRV principles

- M : Measurable
- R : Reportable
- V : Verifiable

✓ Conducting GHG inventory information verification for 10 years, and aggressively registering international platform

Adopting SDGs into Taipei's SD Agenda



Since 2017, Taipei City has adopted the 17 Sustainable Development Goals (SDGs) and 230 indexes, published by The United Nations in 2016, into the city's sustainable development agenda.



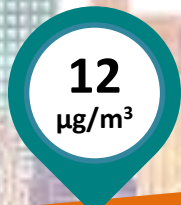
Goal of
2030

- Reduce PM_{2.5} to 10 µg/m³
- All single-use plastics ban
- Zero waste



US EPA

WHO



2017

2025

2030



Development of Sustainable Transportation



Taipei city expects to fulfill the seamless integration of low carbon transportation



MRT System

- 5 operational lines
- 117 operational stations
- 96.6% of satisfaction rate
- Average daily ridership: 20.44 million trips



Green transportation up to 70% by 2022
 Electrically motorized all public buses and official vehicles by 2030



Bus Transit System

- 288 operational routes
- 53 metro shuttle bus routes
- Daily average of 1.3 million persons



Public Bike Sharing

- 94% of satisfaction rate
- Over 8 trips/day per bike
- 400 rental stations and 13,000 bikes
- From anywhere in the city: a station within 350 m/ 5min walk



Electric Scooter Sharing

- 2,000 electric scooter
- 24 hr can use app to rent scooter
- 1 sharing electric scooter can eliminate 10-15 older scooter



Development of Energy ⚡ Transition

Promotion of Renewable Energy



Taipei Energy Hill

" Taipei Energy Hill " is the first ground-mounted photovoltaic (PV) system in Northern Taiwan through public-private partnership. Combined with the nearby existing biogas plant, " Taipei Energy Hill " is also the first set of environmental education, ecological protection and renewable energy demonstration park in Taiwan.



Basic Information (1.0)

Date for completion : January 2017

Area : About 3 hectares

Installed capacity : 1,998 kWp

Annual power generation : 2million kWh

Basic Information (2.0)

Date for completion : December 2018

Area : About 1.3 hectares

Installed capacity : 1,000 kWp

Annual power generation : 1 million kWh



Development of Environmental Education



" Taipei Energy Hill " is the best field to promote environmental education, and it becomes the best place for people to enjoy outdoor recreation.



Go Picnicking



Solar Kitchen



School Field Trip



Grass Skiing

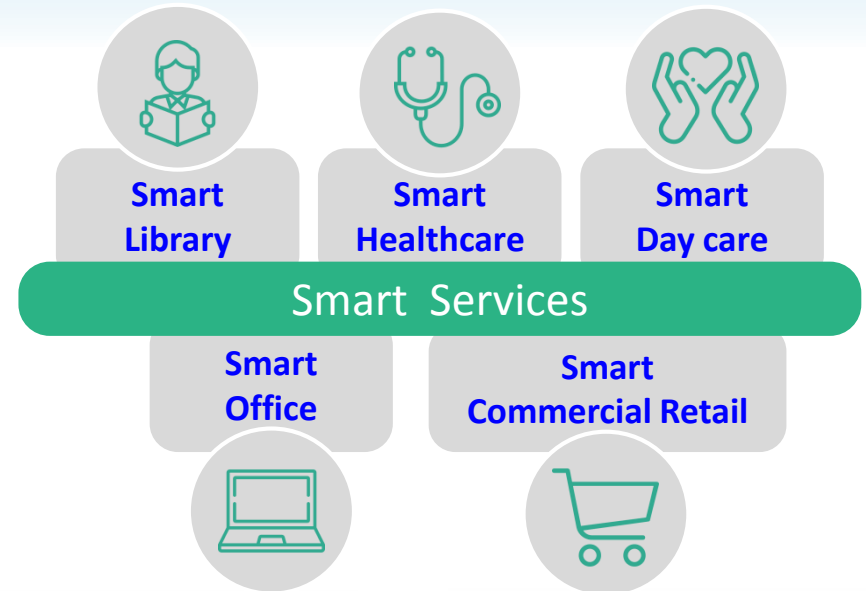


Fair Day

Development of Smart Public House

Taipei City plans to build 12,000 units of public housing.

The public housing units set up 3 smart meters (water meter, electricity meter and gas meter), with additional 3%- 5% of construction funding allocated to the installation of smart facilities.



Development of smarttaipei



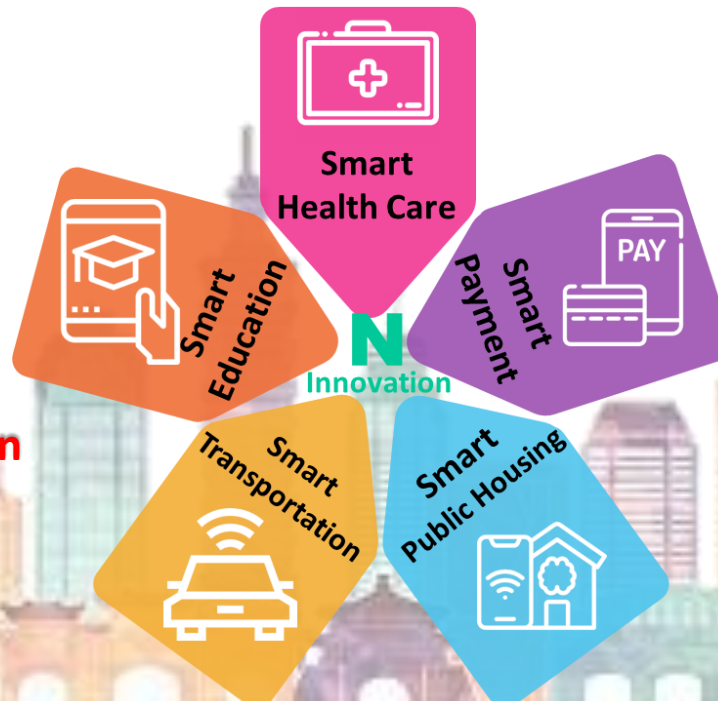
Taipei City adopts "5+N" as the scheme for smart city development.

The "5" indicates five key areas that are closely related to citizens' life.

And "N" is an important DNA to city development and hence Taipei City Government initiates to open the entire city as the demonstration site for innovations.

BUILD • TAIPEI

5 + **N**
Smart Innovation



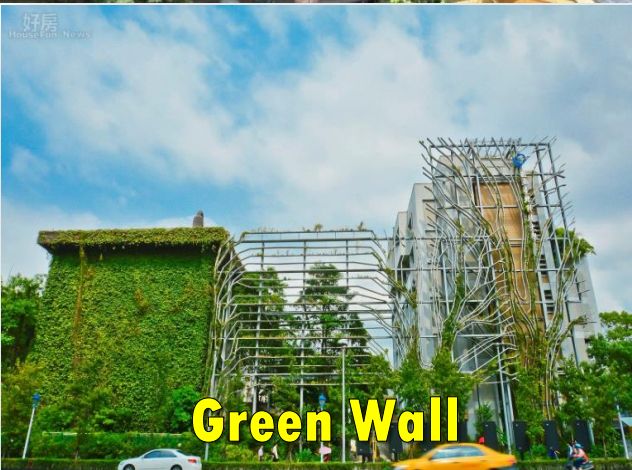
N, the Innovative Energy of a City

- Energy Saving Light Control Demonstration
- Air Quality Monitoring
- Taipei IoT Innovation Lab
- Instant Positioning Rescue System
- Smart City Waste Recycling Integration System
- Unmanned Aerial Vehicle Disaster Communication Backup

Conclusion

Establishing a low carbon and sustainable Taipei

In Taipei City, you can find implementation of all kinds of energy saving and low carbon emission programs





Welcome to Taipei City

2019 SMART CITY SUMMIT & EXPO

SCSE, an IoT Solution Fair

GET YOUR PASS



WHEN

March 26 - 29, 2019

WHERE

Taipei, Taiwan

VENUE

Nangang Exhibition Center, Hall 1



Thank you

GREEN TAIPEI **S**MART TAIPEI **L**IVEABLE TAIPEI

