

# Taoyuan City

CDP Cities: InFocus Report | 2016



## About the report

CDP is a not-for-profit that provides the global platform for cities to measure, manage and disclose their environmental data. We work with more than 500 cities who are now measuring and disclosing environmental data on an annual basis in order to manage emissions, build resilience, and protect themselves from the growing impacts of climate change.

Thanks to CDP's cities program funder, Bloomberg Philanthropies, CDP has seen 533 cities disclose their climate change related data, a 70% increase from 2015. We congratulate the hard work and dedication of city governments in measuring and disclosing this data and for the actions they take to tackle climate change. To see the results for all participating cities, visit <https://www.cdp.net/cities>.

For the last 6 years, CDP has partnered with the C40 Cities Climate Leadership Group (C40) in connecting more than 90 of the world's greatest cities, representing over 650 million people and one quarter of the global economy. Created and led by cities, C40 is focused on tackling climate change and driving urban action that reduces greenhouse gas emissions and climate risks, while increasing the health, wellbeing and economic opportunities of urban citizens.

InFocus Reports are given to the city in each region that produced the highest quality response for their submission to CDP Cities.

In 2016, five C40 cities are awarded with InFocus Reports for demonstrating leadership in their region by taking bold climate action. We congratulate: Cape Town, South Africa; Mexico City, Mexico; Paris, France; Sydney, Australia and Vancouver, Canada.

This year we also recognize cities that are disclosing for the first time in 2016 and received the highest score in each of their regions: Gladsaxe, Denmark; Municipalidad de Providencia, Chile; City of North Vancouver, Canada; Taoyuan City, Taiwan; and Yaoundé 6, Cameroon. This group of cities are excelling at disclosure in their first year of reporting, which is critical for taking meaningful action to address environmental risks.

With this report CDP, C40 and AECOM are proud to highlight Taoyuan City as a climate leader. This document contains the questionnaire data provided to CDP from Taoyuan City as part of its 2016 CDP submission.

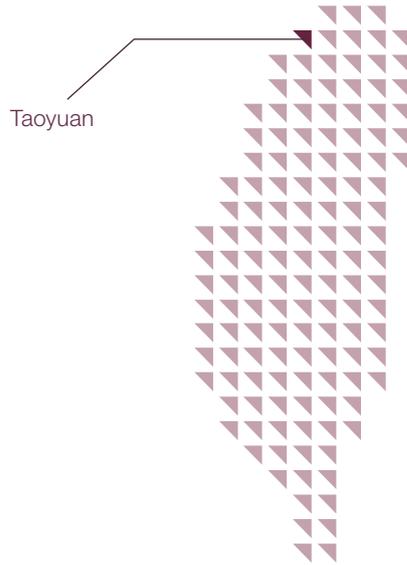
# Taoyuan City, Taiwan

1

Year disclosing to CDP

## Population

2,114,172



**CDP is one of the official reporting platforms supporting the Compact of Mayors, which has now merged with the EU's Covenant of Mayors to create the Global Covenant of Mayors for Climate & Energy**

## Compact of Mayors

Phases completed



Taoyuan City is an aerotropolis city situated at the center of the Asia-Pacific region. The industrial output of the city has always been the pioneer of the country. Recently, Taoyuan city has been actively involved in the development of renewable energy, sustainable transport and integrated environmental education into citizens' daily lives. These actions have helped to make Taoyuan City a well-balanced green city, both economically and environmentally.

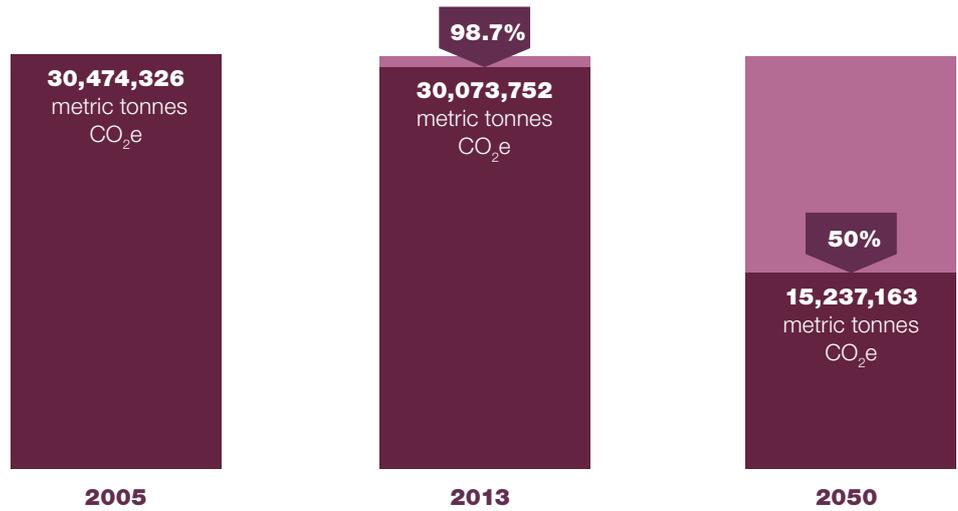
# Mitigation

## Climate Action Plan

Low Carbon Green City Flagship Projects | 2015

2006 IPCC Guidelines for National Greenhouse Gas Inventories

### Total community emissions trend and target



# 7

activities being undertaken to reduce emissions

### Top 3 emissions reduction activities



#### Mass Transit

Improve bus infrastructure, services, and operations



#### Building codes and standards

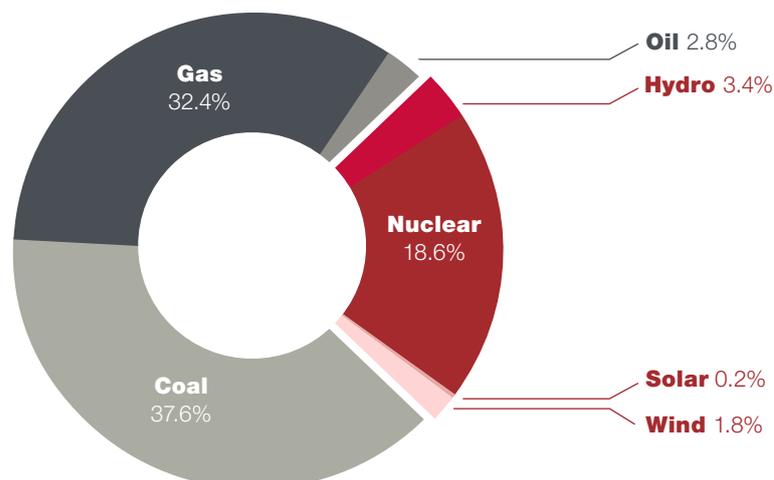
Mandatory green roofs on tall buildings



#### Water

Water recycling and reclamation

### Energy mix



# Climate hazards

**Climate hazards are dangerous climate-related physical events that may cause loss of life, injury, or other health impacts.**

**These hazards can cause damage or loss to infrastructure, livelihoods, and environmental resources.**

## Top 3 climate hazards by timescale

Current



**Rain storm**

Continuous rainfall causes flooding on the main roads and residential area.



**Drought**

There has been a decrease in rainfall between winter and spring.



**Heat wave**

The number of hot days has increased with less cold days and there is an increasing trend in both highest and lowest temperatures in a day.

## Top 3 assets / services affected by climate hazards



**Water**

Water supply is affected by drought and rain storms.



**Health and community**

Health and community are affected by heat waves.

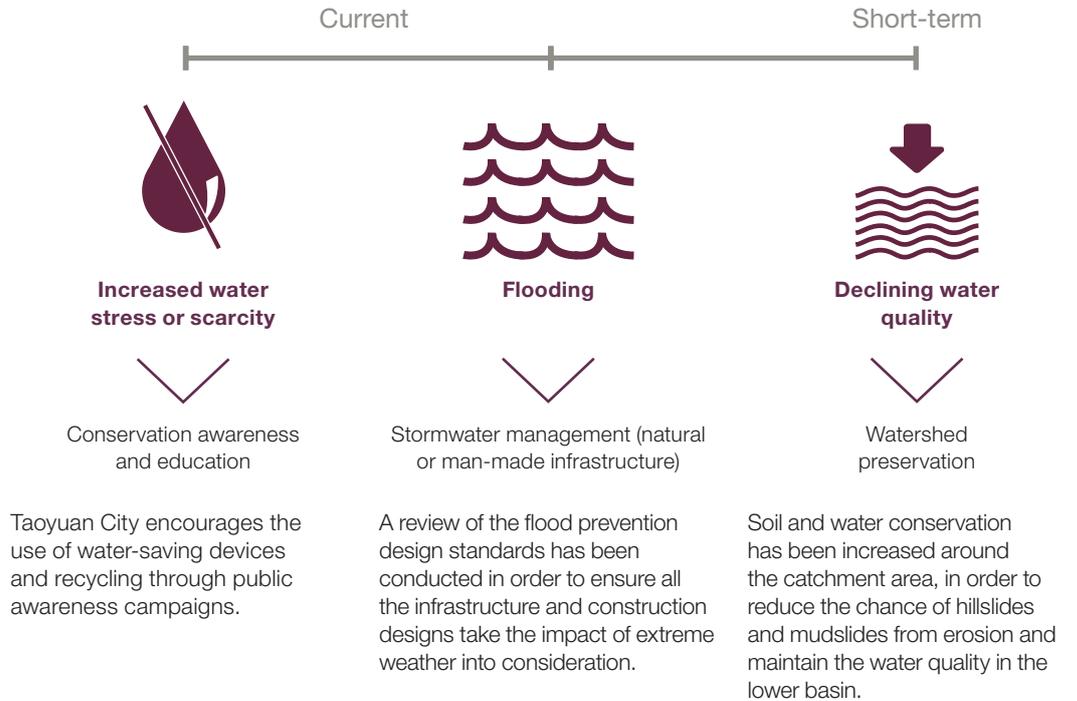


**Food and agriculture**

It is anticipated that Taoyuan City may be impacted by increasing difference in rainfall between the wet and dry season. Both population and industries have increased in the city. Agriculture irrigation in spring time has also increased and reservoirs are therefore used in order to alleviate spring drought.

# Adaptation

## Adaptation actions taken to reduce water supply risks, by timescale



Taoyuan City will face greater and more intense rainfall events in the future, and the city plans to assess the urban drainage system, predicted landslides in the region and climate risk due to extreme weather events in order to design a comprehensive adaptation strategy to climate change.

# Economic opportunities

**Climate change presents opportunities as well as risks. Many cities have identified economic or financial benefits opportunities from mitigating, and adapting to climate change.**

## Top economic opportunities from climate change

- ▼ Development of new business industries (e.g. clean tech)
- ▼ Additional funding options
- ▼ Improved efficiency of operations
- ▼ Increased attention to other environmental concerns
- ▼ Increased infrastructure investment



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