

# Sydney

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 Sydney as a climate leader. This document contains the questionnaire data provided to CDP from Sydney as part of its 2016 CDP submission.



# Sydney, Australia

6

Years disclosing to CDP

Local Government population

205,339



Sydney is a vibrant, cosmopolitan, and accessible city with a diverse population, world famous tourist attractions and an exciting calendar of international and local events. Sydney occupies the position of being Australia's leading global city and is a vital economic hub and tourism gateway for Australia.

**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



# Mitigation

## Climate Action Plans

Energy Efficiency Master Plan | 2015

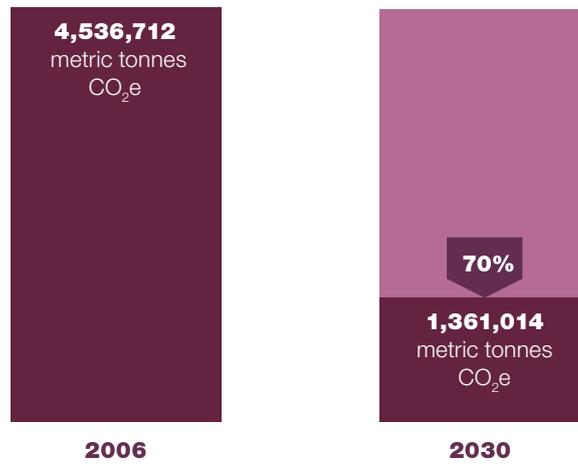
Energy Efficiency Master Plan | 2015

Environmental Strategy & Action Plan | 2016-2021

Renewable Energy Master Plan | 2021

**Emissions protocol: Global Protocol for Community-Scale Greenhouse Gas Emissions Inventories (GPC), (WRI, C40 and ICLEI)**

## Top 3 community emissions reduction activities



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activities being undertaken to reduce emissions

## Top 3 emissions reduction activities



**Private transport**

Infrastructure for non motorized transport



**Waste**

Recycling or composting collections and/or facilities

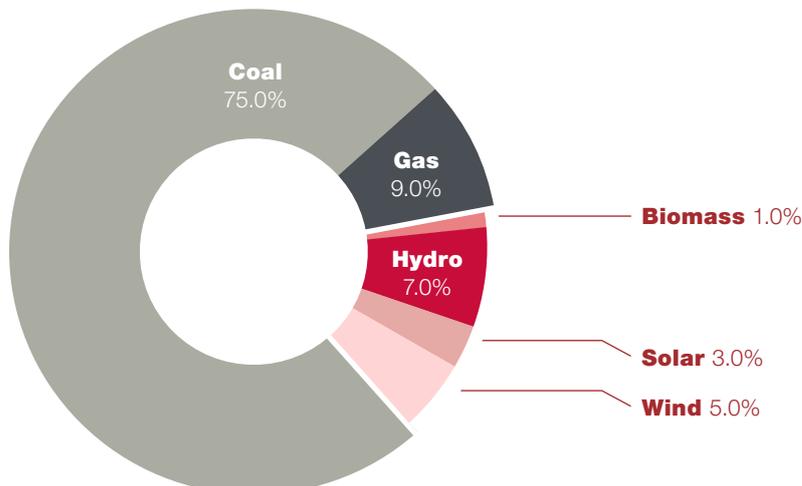


**Water**

Water recycling and reclamation

**By 2030 Sydney aims to source 30% of its total energy from renewable energy means**

## Energy mix



# Climate hazards

## Vulnerability assessment

City of Sydney Climate Risk and Adaptation Project Report | 2015

**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



Extreme hot days



Flash/surface flood



Ozone pollution and air quality

Short-term (by 2025)



Increased urban island

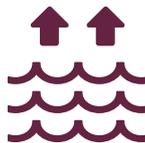


Lightning/thunderstorm



Severe wind & rain storm

Long-term (after 2051)



Sea level rise & coastal inundation



Decrease in annual precipitation



Forest fire & Atmospheric CO<sub>2</sub> concentration

### Top 3 assets / services affected by climate hazards



Health and community



Emergency services



Transport

# Adaptation

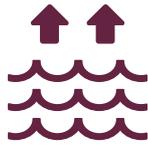
## Adaptation Plan

Adaption for Climate Change: A long term strategy for the City of Sydney | 2015

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actions are being undertaken to reduce risk from climate hazards

### Adaptation actions taken for the top climate hazards



#### Sea level rise

Inundation mapping and floodplain management



#### Increased urban heat island

Heat mapping, cool pavements, urban forest strategy, green walls and roofs



#### Hot summers

Tree planting and/or creation of green space

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

Current



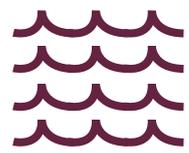
#### Increased water stress or scarcity

Diversifying water supply (water recycling, reclamation and re-use)



#### Inadequate or aging infrastructure

Municipal water efficiency retrofits



#### Flooding

Stormwater management (natural or man-made infrastructure)

# 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

- ▼ Improved efficiency of operations
- ▼ Development of new business industries (e.g. clean tech)
- ▼ Increased energy security
- ▼ Increased infrastructure investment



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