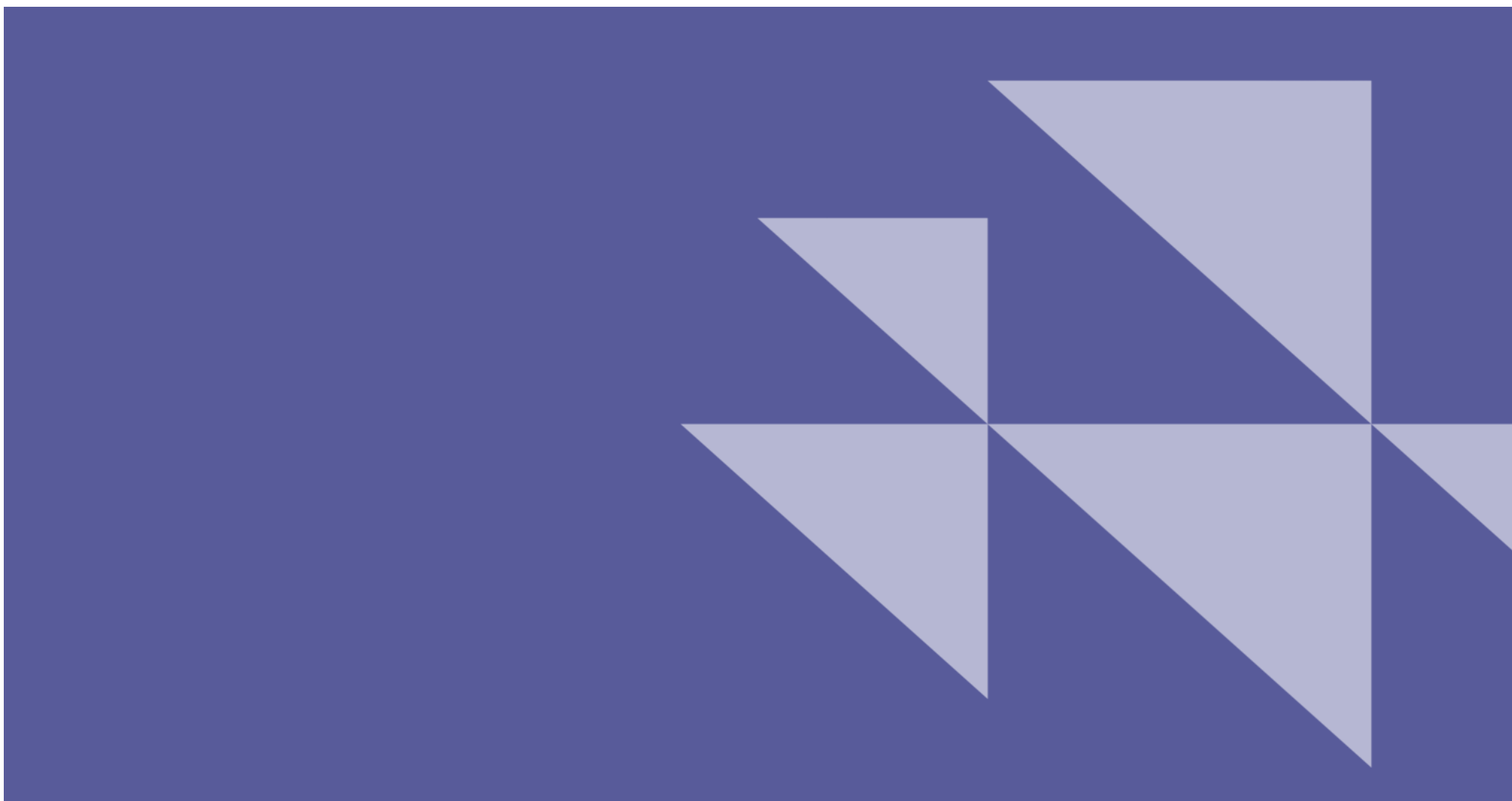


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## CDP Cities 2018 Questionnaire

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# CDP Cities Guidance 2018

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## CDP Disclosure Cycle 2018

We invite a reply to the following questions.

Please respond to the information request using CDP's Online Response System (ORS), accessed via CDP's website. This document shows all the possible questions that cities may encounter in the ORS. However, it should not be used in lieu of the ORS. If you are unable to respond online via the ORS please e-mail [cities@cdp.net](mailto:cities@cdp.net).

The following sources of support are also available to guide you in responding to the information request:

- **[2018 Guidance Document](#)**: This document provides a high-level overview of each section and question-level guidance on every question. The guidance provides information on the intent of each question as well as examples of good responses for selected questions.
- **In-ORS Guidance**: Within the ORS, there will be three levels of help and guidance in order to explain the purpose of each question:
  - Brief help text is provided below every question. This text will give you guidance on the intent of the question.
  - Clicking on the help icon above each question will show a pop-up window with information on how to respond.
  - More detailed guidance can be found by clicking the expandable link below the question. This link will display the full guidance and detailed information on how to respond, examples, links to documentation and scoring associated with the question.
- **Contact us**: All cities can write to [cities@cdp.net](mailto:cities@cdp.net) for questions which are not answered in the guidance, for help accessing the ORS, or for general inquiries.

Please answer the questions comprehensively while also assessing the relevance of the information you provide. Further explanation will also be provided in the CDP Cities 2018 guidance document to be released in March. Where you do not have all of the information requested, please respond with what you have as this is more valuable than no response.

**The deadline for response is 11th July 2018**

# Introduction

## Introduction

0.1 Please give a general description and introduction to your city including your city’s reporting boundary in the table below.

### Response Options

Please complete the following table:

Administrative boundary	Description of city
Select from: <ul style="list-style-type: none"><li>City / Municipality</li><li>Local government area within a city / metropolitan area</li><li>Independent city</li><li>Special city</li><li>Federal district</li><li>Sovereign city-state</li><li>Metropolitan area</li><li>County</li><li>Other: please specify</li></ul>	Text field

## City Details

0.3 Please provide information about your city’s Mayor or equivalent legal representative authority in the table below.

### Response Options

Please complete the following table:

Leader title	Leader name	Current term start year	Current term end year	Total time in office (years)
Text field	Text field	Numerical field	Numerical field	Numerical field

0.4 Please select the currency used for all financial information disclosed throughout your response.

### Response Options

Select from Appendix A.

0.5 Please provide details of your city's annual operating budget, in the currency reported in question 0.4.

### Response Options

Please complete the following table:

Annual operating budget	Budget year start	Budget year end
Numerical field	Drop-down calendar: From	Drop-down calendar: To

#### 0.6 Please provide details of your city's current and projected population.

##### Response Options

Please complete the following table:

Current population	Current population year	Projected population	Projected population year
Numerical field	Numerical field	Numerical field	Numerical field

#### 0.7 Please provide details of your city's GDP in the currency reported in question 0.4.

##### Response Options

Please complete the following table:

GDP	Year of GDP	Source
Numerical field	Numerical field	Text field

#### 0.8 Please provide further details about the geography of your city.

##### Response Options

Please complete the following table:

Average annual temperature (in Celsius)	Land area (in square km)	Average altitude (m)	Longitude (e.g. -120.9762)	Latitude (e.g. 41.25)
Numerical field	Numerical field	Numerical field	Numerical field	Numerical field

# Governance & Data Management

## Governance

1.0 Please describe the impact of national and/or regional climate change activities on your city’s own climate change activities.

Response Options

This is an open text question.

Please note that when copying from another document into the disclosure platform, formatting is not retained.

1.1 Please describe how your city manages overall responsibility for climate change mitigation (emissions reduction) and adaptation (climate risk reduction).

Response Options

This is an open text question.

Please note that when copying from another document into the disclosure platform, formatting is not retained.

1.2 Please describe the administrative structure of your government.

Response Options

Please complete the following table:

Administrative structure	Description of administrative structure
Select from: <ul style="list-style-type: none"><li>● One tiered – city government responsible for all city functions</li><li>● Multi-tiered – governance divided</li><li>● Pluralized – non-hierarchical governance shared between state and non-state entities</li></ul>	Text field

1.4 Does your city incorporate sustainability goals and targets (e.g. GHG reductions) into the master planning for the city?

Response Options

Select one of the following options:

- Yes
- No
- In progress
- Intending to undertake in future
- Not intending to undertake
- Do not know

If Yes is selected in response to 1.4:

1.4a Please detail which goals and targets are incorporated in your city’s master plan and describe how these goals are addressed in the table below.

Response Options

Please complete the following table. You are able to add rows by using the "Add Row" button at the bottom of the table.

Goal type	How are these goals/targets addressed in the city master plan?
Select from: <ul style="list-style-type: none"><li>● Emissions reduction targets</li><li>● Adaptation targets</li><li>● Renewable energy targets</li><li>● Energy efficiency targets</li><li>● Other: please specify</li></ul>	<div>Text field</div>

[Add Row]

# Hazards and Adaptation

## Climate Hazards

### 2.0 Has a climate change risk or vulnerability assessment been undertaken for your local government area?

#### Response Options

Select one of the following options:

- Yes
- No
- In progress
- Intending to undertake in future
- Not intending to undertake
- Do not know

If Yes or In progress is selected in response to 2.0:

### 2.0a Please select the primary process or methodology used to undertake the risk or vulnerability assessment of your city.

#### Response Options

Please complete the following table:

Primary methodology	Description
<div>Select from:<ul style="list-style-type: none"><li>• IPCC climate change impact assessment guidance</li><li>• OECD Strategic Environmental Assessment and Adaptation to Climate Change</li><li>• UNDP climate risk management methodologies</li><li>• ICLEI climate adaptation methodology (ADAPT)</li><li>• UK Climate Impacts Partnership Framework (UKCIP)</li><li>• World Bank Urban Risk Assessment (URA)</li><li>• Shaping climate resilient development: A framework for decision making (ECA)</li><li>• Sendai Framework for Disaster Risk Reduction</li><li>• US Federal Emergency Management Agency (FEMA) Hazard Identification and Risk Assessment</li><li>• Australian/New Zealand Standard for Risk Management</li><li>• State or region vulnerability and risk assessment methodology</li><li>• Agency specific vulnerability and risk assessment methodology</li><li>• Proprietary methodology</li><li>• Unknown</li><li>• Other: please specify</li></ul></div>	<div>Text field</div>

If Yes is selected in response to 2.0:

### 2.0b Please attach and provide details on your climate change risk or vulnerability assessment. Please provide details on the boundary of your assessment, and where this differs from

your city's boundary, please provide an explanation.

### Response Options

Please complete the following table. You are able to add rows by using the "Add Row" button at the bottom of the table.

Publication title	Year of publication	Attach the document	Web link	Boundary of assessment relative to city boundary (reported in 0.1)	Explanation of boundary choice	Primary author of assessment	Does the assessment identify vulnerable populations?
Text field	Numerical field	Attach your document here.	Text field	Select from: <ul style="list-style-type: none"><li>• Same – covers entire city and nothing else</li><li>• Smaller – covers only part of the city</li><li>• Larger – covers the whole city and adjoining areas</li><li>• Partial – Covers part of the city and adjoining areas</li></ul>	Text field	Select from: <ul style="list-style-type: none"><li>• Dedicated city team</li><li>• Relevant city department</li><li>• Consultant</li><li>• International organization</li><li>• Community group</li><li>• Regional / state / provincial government</li><li>• National / central government</li><li>• Other: please specify</li></ul>	Select from: <ul style="list-style-type: none"><li>• Yes</li><li>• No</li></ul>

[Add Row]

If Yes is selected in response to 2.0:

### 2.1 Does your city have an update / revision process for the climate risk or vulnerability assessment?

#### Response Options

Select one of the following options:

- Yes
- No
- Do not know

If Yes is selected in response to 2.1:

### 2.1a Please provide more details on the update / revision process for your city's climate risk or vulnerability assessment.

#### Response Options

Please complete the following table:

Time period for update (years)	Status of current update	Number of times previously updated	Comment
Numerical field	Select from: <ul style="list-style-type: none"><li>• Update completed</li><li>• In progress</li><li>• Intending to undertake in future</li><li>• Not intending to undertake</li><li>• Do not know</li></ul>	Numerical field	Text field



2.2 Do the current and/or anticipated effects of climate change present risks to your city at present or in the future?

Response Options

Select one of the following options:

- Yes
- No
- Do not know

If Yes or Do not know is selected in response to 2.2:

2.2a Please list the most significant climate hazards faced by your city and indicate the probability and consequence of these hazards, as well as the expected future change in frequency and intensity. Please also select the top 3 assets or services that are affected by the climate hazard, and provide a description of the impact.

Response Options

Please complete the following table. The table is displayed over several rows for readability. You are able to add rows by using the "Add Row" button at the bottom of the table.

Climate Hazards	Hazard status	Magnitude of impact	Anticipated timescale	Probability of hazard	Consequence of hazard
See drop-down options below	Select from: <ul style="list-style-type: none"><li>• Currently affecting the city</li><li>• Expected to affect the city in future</li></ul>	Select from: <ul style="list-style-type: none"><li>• Extremely serious</li><li>• Serious</li><li>• Less serious</li></ul>	Select from: <ul style="list-style-type: none"><li>• Short-term</li><li>• Medium-term</li><li>• Long-term</li></ul>	Select from: <ul style="list-style-type: none"><li>• High</li><li>• Medium High</li><li>• Medium</li><li>• Medium Low</li><li>• Low</li><li>• Do not know</li></ul>	Select from: <ul style="list-style-type: none"><li>• High</li><li>• Medium High</li><li>• Medium</li><li>• Medium Low</li><li>• Low</li><li>• Do not know</li></ul>

Future change in frequency	Future change in intensity	Top three assets/ services affected	Impact description
Select from: <ul style="list-style-type: none"><li>• Increasing</li><li>• Decreasing</li><li>• None</li><li>• Do not know</li></ul>	Select from: <ul style="list-style-type: none"><li>• Increasing</li><li>• Decreasing</li><li>• None</li><li>• Do not know</li></ul>	Select top 3 from: <ul style="list-style-type: none"><li>• Energy</li><li>• Water Supply &amp; Sanitation</li><li>• Transport</li><li>• Food and agriculture</li><li>• Waste Management</li><li>• Information &amp; Communications Technology</li><li>• Environment</li><li>• Industrial</li><li>• Commercial</li><li>• Residential</li><li>• Education</li><li>• Public health</li><li>• Community &amp; Culture</li><li>• Law &amp; Order</li><li>• Emergency Management</li><li>• Other: please specify</li></ul>	Text field

[Add Row]

**Climate Hazards drop-down options:**

Select all that apply:

- Rain storm
- Monsoon
- Heavy snow
- Hail
- Severe wind
- Tornado
- Cyclone (Hurricane/Typhoon)
- Extratropical storm
- Tropical storm
- Lightning / thunderstorm
- Fog
- Extreme winter conditions
- Cold wave
- Extreme cold days
- Heat wave
- Extreme hot days
- Drought
- Forest fire
- Land fire
- Flash/surface flood
- River flood
- Coastal flood
- Groundwater flood
- Storm surge
- Permanent inundation
- Salt water intrusion
- Ocean acidification
- Atmospheric CO2 concentrations
- Landslide
- Avalanche
- Rockfall
- Subsidence
- Water-borne disease
- Vector-borne disease
- Air-borne disease
- Insect infestation

*If No is selected in response to 2.2:*

**2.2b Please explain why the anticipated effects of climate change present no risk to your city at present or in the future.**

### Response Options

Please complete the following table:

Reason	Explanation
Select from: <ul style="list-style-type: none"><li>● Risk assessment not undertaken</li><li>● Risk assessment not completed</li><li>● Actions are in place to reduce vulnerability</li><li>● The city is not presently affected by climate change risks and is yet to understand their future impact</li><li>● Climate change risks pose no present or future risks to the city</li><li>● Primary current risks have been addressed and future impacts are not considered risks</li><li>● Other: please specify</li></ul>	Text field

### 2.3 Do you consider that the effects of climate change could negatively impact the ability of businesses to operate successfully in your city?

#### Response Options

Please complete the following table:

Response	Explanation
Select from: <ul style="list-style-type: none"><li>● Yes – business in my city will be negatively impacted by climate change</li><li>● No – businesses in my city will not be negatively impacted by climate change</li><li>● Do not know</li></ul>	Text field

### 2.4 Please identify the factors that most greatly affect your city's ability to adapt to climate change, and indicate how those factors either enhance or challenge this ability.

#### Response Options

Please complete the following table. You are able to add rows by using the "Add Row" button at the bottom of the table.

Factors that affect ability to adapt	Enhance/ Challenge	Description
Select from: <ul style="list-style-type: none"> <li>● Access to basic services</li> <li>● Access to healthcare</li> <li>● Access to education</li> <li>● Cost of living</li> <li>● Housing</li> <li>● Poverty</li> <li>● Inequality</li> <li>● Unemployment</li> <li>● Public health</li> <li>● Political stability</li> <li>● Political engagement / transparency</li> <li>● Government capacity</li> <li>● Budgetary capacity</li> <li>● Migration</li> <li>● Safety and security</li> <li>● Economic health</li> <li>● Economic diversity</li> <li>● Rapid urbanization</li> <li>● Resource availability</li> <li>● Environmental conditions</li> <li>● Infrastructure conditions / maintenance</li> <li>● Infrastructure capacity</li> <li>● Land use planning</li> <li>● Community engagement</li> <li>● Access to quality / relevant data</li> <li>● Other: please specify</li> </ul>	Select from: <ul style="list-style-type: none"> <li>● Enhance</li> <li>● Challenge</li> </ul>	Text field

[Add Row]

## Adaptation

### 3.0 Has the Mayor or city council committed to adapting to climate change across the geographical area of the city, town or settlement?

#### Response Options

Select one of the following options:

- Yes
- No
- In progress
- Intending to undertake in future
- Not intending to undertake
- Do not know

*If Yes is selected in response to 3.0:*

3.0a Please select the type of commitment and attach evidence.

Response Options

Please complete the following table. You are able to add rows by using the "Add Row" button at the bottom of the table.

Type of commitment	Attach	Comments
Select from: <ul style="list-style-type: none"><li>● Global Covenant of Mayors for Climate &amp; Energy</li><li>● Compact of Mayors</li><li>● Durban Adaptation Charter</li><li>● Mayors Adapt (EU)</li><li>● Mexico City Pact</li><li>● UNISDR, Making Cities Resilient Campaign</li><li>● Individual City Commitment</li><li>● 100 Resilient Cities</li><li>● Resilient Communities for America</li><li>● STAR Communities</li><li>● LEED for Cities</li><li>● Other: please specify</li></ul>	Attach your document here.	Text field

[Add Row]

3.1 Has your city council published a plan that addresses climate change adaptation?

Response Options

Select one of the following options:

- Yes
- No
- In progress
- Intending to undertake in future
- Not intending to undertake
- Do not know

If Yes or In progress is selected in response to 3.1:

3.1a Please provide more information on your plan that addresses climate change adaptation and attach the document. Please provide details on the boundary of your plan, and where this differs from your city’s boundary, please provide an explanation.

Response Options

Please complete the following table. You are able to add rows by using the "Add Row" button at the bottom of the table.

Publication title	Year of publication	Attach the document	Web link	Boundary of plan relative to city boundary (reported in 0.1)	Explanation of boundary choice	Primary author of plan	Stage of implementation
Text field	Numerical field	Attach your document here.	Text field	Select from: <ul style="list-style-type: none"> <li>• Same – covers entire city and nothing else</li> <li>• Smaller – covers only part of the city</li> <li>• Larger – covers the whole city and adjoining areas</li> <li>• Partial – Covers part of the city and adjoining areas</li> </ul>	Text field	Select from: <ul style="list-style-type: none"> <li>• Dedicated city team</li> <li>• Relevant city department;</li> <li>• Consultant</li> <li>• International organization</li> <li>• Community group</li> <li>• Regional / state / provincial government</li> <li>• National / central government</li> <li>• Other: please specify</li> </ul>	Select from: <ul style="list-style-type: none"> <li>• Plan in development</li> <li>• Plan developed but not implemented</li> <li>• Plan in implementation</li> <li>• Implementation complete</li> <li>• Measurement in progress</li> <li>• Plan update in progress</li> <li>• Other: please specify</li> </ul>

[Add Row]

If No or Not intending to undertake is selected in response to 3.1:

### 3.1b Please explain why not and any future arrangements you have to create a plan.

#### Response Options

Please complete the following table:

Reason	Comment
Select from: <ul style="list-style-type: none"> <li>• Adaptation is not within city control</li> <li>• Adaptation is covered under main city strategy</li> <li>• Lack of resources/funding</li> <li>• Lack of expertise</li> <li>• Lack of political will</li> <li>• Adaptation is covered in the city plans</li> <li>• Adaptation is not currently a priority for my city</li> <li>• Other: please specify</li> </ul>	Text field

If Yes is selected in response to 3.1:

### 3.2 Does your city have an update / revision process for the climate adaptation plan(s)?

#### Response Options

Select one of the following options:

- Yes
- No
- Do not know

If Yes is selected in response to 3.2:

### 3.2a Please provide more details on the update / revision process for your city's climate adaptation plan(s)?

#### Response Options

Please complete the following table:

Time period for update (years)	Status of current update	Number of times previously updated	Comment
Numerical field	Select from: <ul style="list-style-type: none"><li>● Update completed</li><li>● In progress</li><li>● Intending to undertake in future</li><li>● Not intending to undertake</li><li>● Do not know</li></ul>	Numerical field	Text field

If Yes is selected in response to 2.2:

### 3.3 Please describe the actions you are taking to reduce the risk to, or vulnerability of, your city's infrastructure, services, citizens, and businesses from climate change as identified in the Climate Hazards section.

#### Response Options

Please complete the following table. You are able to add rows by using the "Add Row" button at the bottom of the table.

Climate hazards	Action	Status of action	Action description
Drop-down populated with selections from 2.2a column 1	Select from Appendix B	Select from: <ul style="list-style-type: none"><li>● Scoping</li><li>● Pre-feasibility study</li><li>● Pre-implementation</li><li>● Implementation</li><li>● Operation</li><li>● Complete</li><li>● Monitoring and reporting</li></ul>	Text field

[Add Row]

### 3.7 Please describe your progress in engaging stakeholders for adaptation planning.

#### Response Options

Please complete the following table:

Do you have a plan for stakeholder engagement?	Implementation of stakeholder engagement plan	Describe stakeholder engagement process
Select from: <ul style="list-style-type: none"><li>● Yes</li><li>● No</li><li>● In progress</li><li>● Intending to undertake in future</li><li>● Not intending to undertake</li><li>● Do not know</li></ul>	Select from: <ul style="list-style-type: none"><li>● Yes</li><li>● No</li><li>● In progress</li><li>● Intending to undertake in future</li><li>● Not intending to undertake</li><li>● Do not know</li></ul>	Text field

# Social risks

## 4.0 Does your city face any social risks as a result of climate change?

### Response Options

Select one of the following options:

- Yes
- No
- Do not know

If Yes or Do not know is selected in response to 4.0:

## 4.0a Please complete the table below to indicate which social risks your city faces as a result of climate change and indicate if these risks have been covered by your city's action plan.

### Response Options

Please complete the following table. You are able to add rows by using the "Add Row" button at the bottom of the table.

Social risks	Anticipated timescale in years	Impact description
Select from: <ul style="list-style-type: none"><li>● Fluctuating socio-economic conditions</li><li>● Increased incidence and prevalence of disease and illness</li><li>● Increased demand for public services (including health)</li><li>● Increased risk to already vulnerable populations</li><li>● Increased conflict and/or crime</li><li>● Increased resource demand</li><li>● Loss of traditional jobs</li><li>● Migration from rural areas to cities</li><li>● Population displacement</li><li>● Other: please specify</li></ul>	Select from: <ul style="list-style-type: none"><li>● Current</li><li>● Short-term</li><li>● Medium-term</li><li>● Long-term</li></ul>	Text field

[Add Row]

If No is selected in response to 4.0:

## 4.0b Please explain why not.

### Response Options

Please complete the following table:



Reasoning	Explanation
<p>Select from:</p> <ul style="list-style-type: none"> <li>● Adaptation / resilience measures are expected to mitigate social risks</li> <li>● Social risks have not been assessed</li> <li>● No social risks have been identified through assessment</li> <li>● Social risks identified are not significant</li> <li>● Other: please specify</li> </ul>	Text field

# Opportunities

## Opportunities

### 5.0 Does addressing climate change provide any opportunities for your city?

#### Response Options

Select one of the following options:

- Yes
- No
- Do not know

If Yes or Do not know is selected in response to 5.0:

### 5.0a Please indicate the opportunities and describe how the city is positioning itself to take advantage of them.

#### Response Options

Please complete the following table. You are able to add rows by using the "Add Row" button at the bottom of the table.

Opportunity	Describe how the city is maximizing this opportunity
<div>Select from:</div> <ul style="list-style-type: none"><li>● Development of local/sustainable food businesses</li><li>● Development of energy efficiency measures and technologies</li><li>● Increase in clean technology businesses</li><li>● Development of waste management / recycling businesses</li><li>● Development of tourism industry</li><li>● Development of sustainable transport sector</li><li>● Development of sustainable construction sector</li><li>● Increase opportunities for trading and investment</li><li>● Increase opportunities for partnerships</li><li>● Development of climate change resiliency projects</li><li>● Development of carbon markets</li><li>● Development of resource conservation and management</li><li>● Development of sustainable water management</li><li>● Extended agricultural seasons</li><li>● Additional funding opportunities</li><li>● Improved efficiency of operations</li><li>● Increased energy security</li><li>● Increased attention to other environmental concerns</li><li>● Increased infrastructure investment</li><li>● Other: please specify</li></ul>	<div>Text field</div>

[Add Row]

If No is selected in response to 5.0:

### 5.0b Why do you not foresee any opportunities for your city?

#### Response Options

Please complete the following table:

Reason	Comment
Select from: <ul style="list-style-type: none"><li>● Negative impacts on the economy and environment</li><li>● Opportunities have not been assessed</li><li>● Increase in costs for public administration and investment</li><li>● Negative impacts on tourism, agriculture or industries</li><li>● Negative impacts for citizens</li><li>● Opportunities are not significant</li><li>● Other: please specify</li></ul>	Text field

### 5.1 Does your city collaborate in voluntary partnership with businesses in your city on sustainability projects?

#### Response Options

Select one of the following options:

- Yes
- No
- In progress
- Intending to undertake in future
- Not intending to undertake
- Do not know

If Yes is selected in response to 5.1:

### 5.1a Please provide some key examples of how your city collaborates with business in the table below.

#### Response Options

Please complete the following table. You are able to add rows by using the "Add Row" button at the bottom of the table.

Collaboration area	Description of collaboration
Select from: <ul style="list-style-type: none"><li>● Energy</li><li>● Buildings</li><li>● Transport</li><li>● Waste</li><li>● Water</li><li>● Other: please specify</li></ul>	Text field

[Add Row]

### 5.2 List any emission reduction, adaptation, water related or resilience projects you have planned within your city for which you hope to attract financing, and provide details on the

estimated costs and status of the project. If your city does not have any relevant projects, please select No relevant projects under Project Area.

Response Options

Please complete the following table. You are able to add rows by using the "Add Row" button at the bottom of the table.

Project area	Status of project	Status of financing	Project description	Total cost of project	Total investment cost needed (if relevant)
Select from: <ul style="list-style-type: none"><li>● Buildings</li><li>● Energy efficiency / retrofit</li><li>● Outdoor lighting</li><li>● Renewable energy</li><li>● Transport</li><li>● Waste management</li><li>● Waste recycling</li><li>● Water management</li><li>● No relevant projects</li><li>● Other: please specify</li></ul>	Select from: <ul style="list-style-type: none"><li>● Scoping</li><li>● Pre-feasibility study</li><li>● Pre-implementation</li><li>● Implementation</li><li>● Operation</li><li>● Implementation complete</li><li>● Monitoring and reporting</li></ul>	Select from: <ul style="list-style-type: none"><li>● Project not funded and seeking partial funding</li><li>● Project not funded and seeking full funding</li><li>● Project partially funded and seeking additional funding</li><li>● Project fully funded</li><li>● Other: please specify</li></ul>	Text field	Numerical field	Numerical field

[Add Row]

# Local Government Emissions

The questions in this section refer to emissions associated with your local government operations (sometimes referred to as “corporate” or “municipal”) emissions.

## Boundary and scope

### 6.0 Do you have an emissions inventory for your local government operations to report?

By selecting Yes below, you are indicating that you have fuel and/or greenhouse gas (GHG) emissions data from your local government operations (sometimes referred to as ‘corporate’ or ‘municipal’ emissions) to report at this time.

#### Response Options

Select one of the following options:

- Yes
- No
- In progress
- Not intending to undertake

If Yes is selected in response to 6.0:

### 6.1 Please state the dates of the accounting year or 12-month period for which you are reporting an emissions inventory for your local government operations.

#### Response Options

Please complete the following table:

From	To
Drop-down calendar	Drop-down calendar

If Yes is selected in response to 6.0:

### 6.2 Please indicate the category that best describes the boundary of your local government operations emissions inventory.

#### Response Options

Select one of the following options:

- Departments, entities or companies over which operational control is exercised
- Departments, entities or companies over which financial control is exercised
- Other: please specify

If Yes is selected in response to 6.0:

### 6.3 Please give the name of the primary protocol, standard, or methodology used to calculate your local government operations emissions inventory.

#### Response Options

Please complete the following table:

Primary protocol	Comment
Select from: <ul style="list-style-type: none"><li>● Greenhouse Gas Protocol: Public Sector Standard</li><li>● International Emissions Analysis Protocol (ICLEI)</li><li>● ISO 14064</li><li>● Local Government Operations Protocol (ICLEI/The Climate Registry/California Climate Action Registry/ California Air Resources Board)</li><li>● Australian National Greenhouse and Energy Reporting (Measurement) Determination</li><li>● Global Protocol for Community-Scale Greenhouse Gas Emissions Inventories (GPC), (WRI, C40 and ICLEI)</li><li>● 2006 IPCC Guidelines for National Greenhouse Gas Inventories</li><li>● Other: please specify</li></ul>	Text field

If Yes is selected in response to 6.0:

6.4 Which gases are included in your emissions inventory?

Response Options

Select all that apply:

- CO2
- CH4
- N2O
- HFCs
- PFCs
- SF6
- NF3

Energy Data

If Yes is selected in response to 6.0:

6.5 Please give the total amount of fuel (refers to Scope 1 emissions) that your local government has consumed this year.

Response Options

Please complete the following table. You are able to add rows by using the “Add Row” button at the bottom of the table.

Source	Fuel	Amount	Units
Select from: <ul style="list-style-type: none"><li>● Airport (s)</li><li>● Buildings</li><li>● Buses</li><li>● Electricity generation</li><li>● Electricity transmission and distribution</li><li>● Employee commuting</li><li>● Incineration of waste</li><li>● Landfills</li><li>● Local trains</li><li>● Maritime port</li><li>● Municipal vehicle fleet</li><li>● Regional trains</li><li>● Roads / highways</li><li>● Street lighting and traffic signals</li><li>● Subway / underground</li><li>● Thermal energy</li><li>● Waste collection</li><li>● Wastewater treatment</li><li>● Water supply</li><li>● Unknown source</li><li>● Total</li><li>● Other: please specify</li></ul>	Select from Appendix C	Numerical field	Select from: <ul style="list-style-type: none"><li>● GWh</li><li>● MWh</li><li>● kWh</li><li>● TJ</li><li>● GJ</li><li>● MJ</li><li>● Therms</li><li>● Btu m3</li><li>● L</li><li>● Metric tonnes</li><li>● Short tons</li></ul>

[Add row]

If Yes is selected in response to 6.0:

6.6 How much electricity, heat, steam, and cooling (refers to Scope 2 emissions) has your local government purchased for its own consumption during the reporting year?

Response Options

Please complete the following table. You are able to add rows by using the "Add Row" button at the bottom of the table.

Source	Type	Amount	Units
Select from: <ul style="list-style-type: none"> <li>• Airport (s)</li> <li>• Buildings</li> <li>• Buses</li> <li>• Electricity generation</li> <li>• Electricity transmission and distribution</li> <li>• Employee commuting</li> <li>• Incineration of waste</li> <li>• Landfills</li> <li>• Local trains</li> <li>• Maritime port</li> <li>• Municipal vehicle fleet</li> <li>• Regional trains</li> <li>• Roads / highways</li> <li>• Street lighting and traffic signals</li> <li>• Subway / underground</li> <li>• Thermal energy</li> <li>• Waste collection</li> <li>• Wastewater treatment</li> <li>• Water supply</li> <li>• Unknown source</li> <li>• Other: please specify</li> </ul>	Select from: <ul style="list-style-type: none"> <li>• Electricity</li> <li>• Heat</li> <li>• Steam</li> <li>• Cooling</li> <li>• Other: please specify</li> </ul>	Numerical field	Select from: <ul style="list-style-type: none"> <li>• GWh</li> <li>• MWh</li> <li>• kWh</li> <li>• TJ</li> <li>• GJ</li> <li>• MJ</li> <li>• Therms</li> <li>• Btu</li> <li>• m3</li> <li>• L</li> <li>• Metric tonnes</li> <li>• Short tons</li> </ul>

[Add Row]

## GHG Emissions Data

If Yes is selected in response to 6.0:

**6.7 Please provide total (Scope 1 + Scope 2) GHG emissions for your local government operations, in metric tonnes CO2e. Scopes are a common categorization method.**

Scope 1: All direct GHG emissions

Scope 2: Indirect GHG emissions associated with the consumption of purchased or acquired electricity, steam, heating, or cooling.

### Response Options

Please complete the following table:

Total Scope 1 + Scope 2 emissions (metric tonnes CO2e)	Total Scope 1 emissions (metric tonnes CO2e)	Total Scope 2 emissions (metric tonnes CO2e)	Comment
Numerical field	Numerical field	Numerical field	Text field

If Yes is selected in response to 6.0:



6.8 Do you measure local government Scope 3 emissions?

Response Options

Select one of the following options:

- Yes
- No
- In progress
- Intending to undertake in future
- Not intending to undertake

If Yes is selected in response to 6.8:

6.8a Please complete the table.

Response Options

Please complete the following table. You are able to add rows by using the "Add Row" button at the bottom of the table.

Source of Scope 3 emissions	Emissions (metric tonnes CO2e)	Comment
Select from: <ul style="list-style-type: none"><li>● Employee commuting</li><li>● Employee business travel</li><li>● Emissions from contracted services</li><li>● Upstream production of materials and fuels</li><li>● Upstream and downstream transportation of materials and fuels</li><li>● Waste related Scope 3 emission sources</li><li>● Other: please specify</li></ul>	Numerical field	Text field

[Add Row]

If No or Not intending to undertake is selected in response to 6.8:

6.8b Please explain why not and detail your plans to do so in the future, if any.

Response Options

Please complete the following table:

Reasoning	Explanation
Select from: <ul style="list-style-type: none"><li>● Lack of data</li><li>● Low data quality</li><li>● Lack of knowledge/capacity</li><li>● Lack of funding/resources</li><li>● Scope categorization not used</li><li>● Not required by national authorities</li><li>● Not required by international agreements</li><li>● Local government Scope 3 emissions have been assessed as insignificant</li><li>● Other: please specify</li></ul>	Text field

If Yes is selected in response to 6.0:

**6.9 Please indicate if your local government operations emissions have increased, decreased, or stayed the same since your last emissions inventory, and please describe why.**

**Response Options**

Please complete the following table:

Change in emissions	Reason for change	Please explain
Select from: <input type="radio"/> Increased <input type="radio"/> Decreased <input type="radio"/> Stayed the same <input type="radio"/> This is our first year of calculation <input type="radio"/> Do not know	If "Increased" is selected: <input type="radio"/> Increased energy/electricity consumption <input type="radio"/> Population increase <input type="radio"/> Improved data accuracy <input type="radio"/> Emissions reduction actions not implemented <input type="radio"/> Change in weather conditions <input type="radio"/> Change in accounting methodology <input type="radio"/> Change in calculation following verification <input type="radio"/> Financial conditions  If "Decreased" is selected: <input type="radio"/> Behavioural change <input type="radio"/> Technological change <input type="radio"/> Legislative change <input type="radio"/> Financial conditions <input type="radio"/> Change in available data <input type="radio"/> Change in data collection methods <input type="radio"/> Policy change <input type="radio"/> Change in weather conditions  If "This is our first year of calculation" is selected: <input type="radio"/> Previous data was not reliable <input type="radio"/> Lack of resource / funding overcome <input type="radio"/> Lack of knowledge overcome  If "Stayed the same" is selected: <input type="radio"/> No new inventory to report <input type="radio"/> Emissions have not changed  If "Do not know" is selected: <input type="radio"/> Change in staff <input type="radio"/> Lack of documentation <input type="radio"/> Change in methodology <input type="radio"/> Other: please specify	Text field

## External Verification

If Yes is selected in response to 6.0:

**6.10 Has the GHG emissions data you are currently reporting been externally verified or audited in part or in whole?**

### Response Options

Select one of the following options:

- ☐ Yes

- No
- In progress
- Intending to undertake in future
- Not intending to undertake
- Do not know

If Yes is selected in response to 6.10:

#### 6.10a Please provide the following information about the emissions verification process.

##### Response Options

Please complete the following table:

Name of verifier	Year of verification	Attach verification certificate	Comments
Text field	Numerical field	Attach your document here.	Text field

If No, Not intending to undertake or Intending to undertake in future is selected in response to 6.10:

#### 6.10b Please explain why your local government operations inventory is not verified and describe any future plans for verification.

##### Response Options

Please complete the following table:

Reason	Comments
Select from: <ul style="list-style-type: none"> <li>● Verification under consideration</li> <li>● Lack of funding / resources</li> <li>● Lack of expertise / knowledge</li> <li>● Verification is not prioritised</li> <li>● Data is internally verified</li> <li>● Other: please specify</li> </ul>	Text field

# City-wide Emissions

The questions in this section refer to your city's city-wide (sometimes referred to as “geographic” or “community”) emissions inventory. This inventory encompasses emissions which are within a particular city boundary, over which local governments can exercise a degree of influence through the policies and regulations they implement.

## City-wide GHG Emissions Data

### 7.0 Does your city have a city-wide emissions inventory to report?

By selecting Yes below, you are indicating that you have fuel and/or greenhouse gas (GHG) emissions data from the entire city area over which the city government can exercise a degree of influence through the policies and regulations they implement (sometimes referred to as 'geographic' or 'community' emissions) to report at this time.

#### Response Options

- Yes
- No
- In progress
- Intending to undertake in future
- Not intending to undertake

If Yes is selected in response to 7.0:

### 7.1 Please state the dates of the accounting year or 12-month period for which you are reporting a city-wide GHG emissions inventory.

#### Response Options

Please complete the following table:

From	To
Drop-down calendar	Drop-down calendar

If Yes is selected in response to 7.0:

### 7.2 Please indicate the category that best describes the boundary of your city-wide GHG emissions inventory.

#### Response Options

Select one of the following options:

- Administrative boundary of a local government
- Combination of administrative divisions
- A metropolitan area
- Other: please specify

If Yes is selected in response to 7.0:

7.3 Does your city have a city-wide emissions inventory that aligns with the Global Protocol for Community-Scale Greenhouse Gas Emissions Inventories (GPC)?

Response Options

Select one of the following options:

- Yes
- No
- In progress

If Yes is selected in response to 7.3:

7.3a Please provide a summary of emissions by sector and scope as defined in the Global Protocol for Community Greenhouse Gas Emissions Inventories (GPC) in the table below.

Response Options

Please complete the following table:

Sector and scope (GPC reference number)	Emissions (metric tonnes CO2e)
Stationary Energy: energy use – Scope 1 (I.X.1)	Numerical field
Stationary Energy: energy use – Scope 2 (I.X.2)	Numerical field
Stationary Energy: energy use – Scope 3 (I.X.3)	Numerical field
Stationary Energy: energy generation supplied to the grid – Scope 1 (I.4.4)	Numerical field
Transportation – Scope 1 (II.X.1)	Numerical field
Transportation – Scope 2 (II.X.2)	Numerical field
Transportation – Scope 3 (II.X.3)	Numerical field
Waste: waste generated within the city boundary – Scope 1 (III.X.1)	Numerical field
Waste: waste generated within the city boundary – Scope 3 (III.X.2)	Numerical field
Waste: waste generated outside the city boundary – Scope 1 (III.X.3)	Numerical field
Industrial Processes and Product Use – Scope 1 (IV)	Numerical field
Agriculture, Forestry and Land Use – Scope 1 (V)	Numerical field
TOTAL Scope 1 (Territorial) emissions	Numerical field
TOTAL Scope 2 emissions	Numerical field
TOTAL Scope 3 emissions	Numerical field
TOTAL BASIC emissions	Numerical field
TOTAL BASIC+ emissions	Numerical field

If No or In progress is selected in response to 7.3:

7.4 Please give the name of the primary protocol, standard, or methodology you have used to calculate your city’s city-wide GHG emissions.

Response Options

Please complete the following table:

Primary protocol	Comment
Select from: <ul style="list-style-type: none"><li>● International Emissions Analysis Protocol (ICLEI)</li><li>● International Standard for Determining Greenhouse Gas Emissions for Cities (UNEP and World Bank)</li><li>● 2006 IPCC Guidelines for National Greenhouse Gas Inventories</li><li>● U.S. Community Protocol for Accounting and Reporting of Greenhouse Gas Emissions (ICLEI)</li><li>● Greenhouse gas Inventory &amp; Research Center of Korea (GIR)</li><li>● Regional or country specific methodology</li><li>● City specific methodology</li><li>● Other: please specify</li></ul>	Text field

If No or In progress is selected in response to 7.3:

7.4a Which gases are included in your city-wide emissions inventory?

Response Options

Select all that apply:

- CO2
- CH4
- N2O
- HFCs
- PFCs
- SF6
- NF3

If No or In progress is selected in response to 7.3:

7.4b Please provide a breakdown of your GHG emissions by scope. Where values are not available, please use the comment field to indicate the reason why.

Response Options

Please complete the following table:

Scope	Metric tonnes CO2e	Level of confidence	Comments
Scope 1 emissions excluding emissions from grid-supplied energy generation	Numerical field	Select from: <ul style="list-style-type: none"> <li>High</li> <li>Medium</li> <li>Low</li> </ul>	Text field
Scope 1 emissions from grid-supplied energy generation within the city boundary	Numerical field	Select from: <ul style="list-style-type: none"> <li>High</li> <li>Medium</li> <li>Low</li> </ul>	Text field
Total Scope 1 emissions (Row 1 + Row 2)	Numerical field	Select from: <ul style="list-style-type: none"> <li>High</li> <li>Medium</li> <li>Low</li> </ul>	Text field
Total Scope 2 emissions	Numerical field	Select from: <ul style="list-style-type: none"> <li>High</li> <li>Medium</li> <li>Low</li> </ul>	Text field
Total (Scope 1 + Scope 2) emissions	Numerical field	Select from: <ul style="list-style-type: none"> <li>High</li> <li>Medium</li> <li>Low</li> </ul>	Text field
Total Scope 3 emissions	Numerical field	Select from: <ul style="list-style-type: none"> <li>High</li> <li>Medium</li> <li>Low</li> </ul>	Text field

If Yes is selected in response to 7.0:

### 7.5 Please attach your city-wide inventory in the table below.

If you have an inventory in the format of the GPC, please attach it below. You can download the GPC Reporting Tool (CIRIS) [here](#). If you are using the ClearPath tool, please attach both extracts in the table below. If your inventory is not in the format of a GPC, you can also attach it below.

### Response Options

Please complete the following table. You are able to add rows by using the "Add Row" button at the bottom of the table.

Emissions inventory format	Document title	Attachment	Level of confidence	Comment on level of confidence
Select from: <ul style="list-style-type: none"> <li>GPC format: City Inventory Reporting and Information System (CIRIS) GPC Reporting tool</li> <li>GPC format: ClearPath (ICLEI)</li> <li>Custom or older GPC format</li> <li>This inventory is in a format other than the GPC</li> </ul>	Text Field	Attach your document here.	Select from: <ul style="list-style-type: none"> <li>High</li> <li>Medium</li> <li>Low</li> </ul>	Text field



[Add Row]

If [2006 IPCC Guidelines for National Greenhouse Gas Inventories](#), [Greenhouse gas Inventory & Research Center of Korea \(GIR\)](#) or [International Standard for Determining Greenhouse Gas Emissions for Cities \(UNEP and World Bank\)](#) is selected in response to 7.4:

**7.6a Where it will facilitate a greater understanding of your city-wide emissions, please provide a breakdown of these emissions by IPCC sector in the table below.**

**Response Options**

Please complete the following table. You are able to add rows by using the “Add Row” button at the bottom of the table.

IPCC sector	Sector	Scope	Emissions (metric tonnes CO2e)
Select from: <ul style="list-style-type: none"><li>● Energy</li><li>● Industrial processes and product use (IPPU)</li><li>● Agriculture, Forestry and other land use (AFOLU)</li><li>● Waste</li><li>● Other: please specify</li></ul>	Select from: <ul style="list-style-type: none"><li>● Stationary energy (buildings)</li><li>● Residential buildings</li><li>● Public buildings</li><li>● Commercial buildings</li><li>● Industrial buildings</li><li>● Transportation</li><li>● Road</li><li>● Rail</li><li>● Waste</li><li>● Wastewater</li><li>● Other: please specify</li></ul>	Select from: <ul style="list-style-type: none"><li>● Scope 1</li><li>● Scope 2</li><li>● Total figure</li></ul>	Numerical field

[Add Row]

If [International Emissions Analysis Protocol \(ICLEI\)](#) is selected in response to 7.4:

**7.6b Where it will facilitate a greater understanding of your city-wide emissions, please provide a breakdown of these emissions by UNFCCC Sector.**

**Response Options**

Please complete the following table. You are able to add rows by using the “Add Row” button at the bottom of the table.

UNFCCC Sector	Sector	Scope	Emissions (metric tonnes CO2e)
Select from: <ul style="list-style-type: none"><li>● Stationary energy</li><li>● Transport</li><li>● Fugitive emissions</li><li>● Industrial processes</li><li>● Agriculture</li><li>● Land use</li><li>● Land use change and forestry</li><li>● Solid waste disposal</li><li>● Wastewater</li><li>● Treatment and discharge</li></ul>	Select from: <ul style="list-style-type: none"><li>● Stationary energy (buildings)</li><li>● Residential buildings</li><li>● Public buildings</li><li>● Commercial buildings</li><li>● Industrial buildings</li><li>● Transportation</li><li>● Road</li><li>● Rail</li><li>● Waste</li><li>● Wastewater</li><li>● Other: please specify</li></ul>	Select from: <ul style="list-style-type: none"><li>● Scope 1</li><li>● Scope 2</li><li>● Total figure</li></ul>	Numerical field

[Add Row]

If *U.S. Community Protocol for Accounting and Reporting of Greenhouse Gas Emissions (ICLEI)* is selected in response to 7.4:

**7.6c Where it will facilitate a greater understanding of your city-wide emissions, please provide a breakdown of these emissions by the US Community Protocol sources.**

**Response Options**

Please complete the following table. You are able to add rows by using the “Add Row” button at the bottom of the table.

US Community Protocol Sources	Sector	Scope	Emissions (metric tonnes CO2e)
Select from: <ul style="list-style-type: none"><li>● Built environment</li><li>● Transportation and other mobile sources</li><li>● Solid waste</li><li>● Wastewater and water</li><li>● Agricultural livestock</li><li>● Upstream impacts of community-wide activities</li></ul>	Select from: <ul style="list-style-type: none"><li>● Stationary energy (buildings)</li><li>● Residential buildings</li><li>● Public buildings</li><li>● Commercial buildings</li><li>● Industrial buildings</li><li>● Transportation</li><li>● Road</li><li>● Rail</li><li>● Waste</li><li>● Wastewater</li><li>● Other: please specify</li></ul>	Select from: <ul style="list-style-type: none"><li>● Scope 1</li><li>● Scope 2</li><li>● Total figure</li></ul>	Numerical field

[Add Row]

If *Regional or country specific methodology, City specific methodology or Other* is selected in response to 7.4:

**7.6d Where it will facilitate a greater understanding of your city-wide emissions, please provide a breakdown of these emissions by end user, or any other classification system used in your city.**

**Response Options**

Please complete the following table. You are able to add rows by using the “Add Row” button at the bottom of the table.

Source	Sector	Scope	Emissions (metric tonnes CO2e)
Text field	Select from: <ul style="list-style-type: none"><li>● Stationary energy (buildings)</li><li>● Residential buildings</li><li>● Public buildings</li><li>● Commercial buildings</li><li>● Industrial buildings</li><li>● Transportation</li><li>● Road</li><li>● Rail</li><li>● Waste</li><li>● Wastewater</li><li>● Other: please specify</li></ul>	Select from: <ul style="list-style-type: none"><li>● Scope 1</li><li>● Scope 2</li><li>● Total figure</li></ul>	Numerical field

[Add Row]

If No or In progress is selected in response to 7.3:

## 7.7 Please give the total amount of fuel (referring to Scope 1 emissions) consumed in your city during the reporting year.

### Response Options

Please complete the following table. You are able to add rows by using the "Add Row" button at the bottom of the table.

Fuel	Amount	Units	End user/ Economic sector/ IPCC sector/ Other	Sector
Select from Appendix C	Numerical field	Select from: <ul style="list-style-type: none"><li>● GWh</li><li>● MWh</li><li>● kWh</li><li>● TJ</li><li>● GJ</li><li>● MJ</li><li>● m3</li><li>● L</li><li>● Metric tonnes</li><li>● Short tons</li><li>● Therms</li><li>● Btus</li></ul>	Text field	Select from: <ul style="list-style-type: none"><li>● Stationary energy (buildings)</li><li>● Residential buildings</li><li>● Public buildings</li><li>● Commercial buildings</li><li>● Industrial buildings</li><li>● Transportation</li><li>● Road</li><li>● Rail</li><li>● Waste</li><li>● Wastewater</li><li>● Other: please specify</li></ul>

[Add Row]

If No or In progress is selected in response to 7.3:

## 7.8 How much electricity, heat, steam, and cooling (referring to Scope 2) has been consumed by your city during the reporting year?

### Response Options

Please complete the following table. You are able to add rows by using the "Add Row" button at the bottom of the table.

Type	Amount	Units	End user / Economic sector / IPCC sector / Other	Sector
Select from: <ul style="list-style-type: none"><li>● Electricity</li><li>● Heat</li><li>● Steam</li><li>● Cooling</li><li>● Other: please specify</li></ul>	Numerical field	Select from: <ul style="list-style-type: none"><li>● GWh</li><li>● MWh</li><li>● kWh</li><li>● TJ</li><li>● GJ</li><li>● MJ</li><li>● m3</li><li>● L</li><li>● Metric tonnes</li><li>● Short tons</li><li>● Therms</li><li>● Btus</li></ul>	Text field	Select from: <ul style="list-style-type: none"><li>● Stationary energy (buildings)</li><li>● Residential buildings</li><li>● Public buildings</li><li>● Commercial buildings</li><li>● Industrial buildings</li><li>● Transportation</li><li>● Road</li><li>● Rail</li><li>● Waste</li><li>● Wastewater</li><li>● Other: please specify</li></ul>

[Add Row]

If No or In progress is selected in response to 7.3:

7.9 Does your city have a breakdown by source of city-wide Scope 3 emissions?

Response Options

Select one of the following options:

- Yes
- No
- In progress
- Intending to undertake in future
- Not intending to undertake

If Yes is selected in response to 7.9:

7.9a Please provide a breakdown of your city's scope 3 emissions.

Response Options

Please complete the following table. You are able to add rows by using the “Add Row” button at the bottom of the table.

Source of Scope 3 emissions	Emissions (metric tonnes CO2e)	Comment
Select from: <ul style="list-style-type: none"><li>● Goods and services</li><li>● Upstream emissions from energy use</li><li>● Water</li><li>● Wastewater</li><li>● Road</li><li>● Aviation</li><li>● Waste</li><li>● Transmission and distribution losses</li><li>● Railways</li><li>● Water-borne navigation</li><li>● Food</li><li>● Other: please specify</li></ul>	Numerical field	Text field

[Add Row]

If No, Intending to undertake in future or Not intending to undertake is selected in response to 7.9:

7.9b Please explain why not and detail your plans to do so in the future, if any.

Response Options

Please complete the following table:

Reasoning	Explanation
Select from: <ul style="list-style-type: none"> <li>● Lack of data</li> <li>● Low data quality</li> <li>● Lack of knowledge/capacity</li> <li>● Lack of funding/resources</li> <li>● Scope categorization not used</li> <li>● Not required by national authorities</li> <li>● Not required by international agreements</li> <li>● Local government Scope 3 emissions have been assessed as insignificant</li> <li>● Scope 3 calculations are in progress</li> <li>● Other: please specify</li> </ul>	Text field

If Yes is selected in response to 7.0

## 7.10 Do you have any credits or offsets resulting in a change to your city's net emissions that you would like to report?

### Response Options

Select one of the following options:

- Yes
- No
- Do not know

If Yes is selected in response to 7.10

### 7.10a Please provide details on the credits or offsets.

### Response Options

Please complete the following table. You are able to add rows by using the "Add Row" button at the bottom of the table.

Type of offset or credit	Emissions saved (metric tonnes CO2e)	Sector	Comment
Select from: <ul style="list-style-type: none"> <li>● Scope 2 emissions based on a market-based method calculation</li> <li>● Offset credit transactions generated within the boundary and sold</li> <li>● Offset credit transactions purchased from outside of the boundary</li> <li>● Renewable energy generation produced within the geographic boundary, or reflecting an investment by the city</li> <li>● Renewable energy credits</li> <li>● Other: please specify</li> </ul>	Numerical field	Select from: <ul style="list-style-type: none"> <li>● Stationary energy (buildings)</li> <li>● Residential buildings</li> <li>● Public buildings</li> <li>● Commercial buildings</li> <li>● Industrial buildings</li> <li>● Transportation</li> <li>● Road</li> <li>● Rail</li> <li>● Waste</li> <li>● Wastewater</li> <li>● Other: please specify</li> </ul>	Text field

[Add Row]

If Yes is selected in response to 7.0

## 7.11 Please indicate if your city-wide emissions have increased, decreased, or stayed the same since your last emissions inventory, and please describe why.

### Response Options

Please complete the following table:

Change in emissions	Reason for change	Please explain
Select from: <ul style="list-style-type: none"> <li>● Increased</li> <li>● Decreased</li> <li>● Stayed the same</li> <li>● This is our first year of calculation</li> <li>● Do not know</li> </ul>	If "Increased" is selected: <ul style="list-style-type: none"> <li>● Increased energy/electricity consumption</li> <li>● Population increase</li> <li>● Improved data accuracy</li> <li>● Emissions reduction actions not implemented</li> <li>● Change in weather conditions</li> <li>● Change in accounting methodology</li> <li>● Change in calculation following verification</li> <li>● Financial conditions</li> </ul> If "Decreased" is selected: <ul style="list-style-type: none"> <li>● Behavioural change</li> <li>● Technological change</li> <li>● Legislative change</li> <li>● Financial conditions</li> <li>● Change in available data</li> <li>● Change in data collection methods</li> <li>● Policy change</li> <li>● Change in weather conditions</li> </ul> If "This is our first year of calculation" is selected: <ul style="list-style-type: none"> <li>● Previous data was not reliable</li> <li>● Lack of resource / funding overcome</li> <li>● Lack of knowledge overcome</li> </ul> If "Stayed the same" is selected: <ul style="list-style-type: none"> <li>● No new inventory to report</li> <li>● Emissions have not changed</li> </ul> If "Do not know" is selected: <ul style="list-style-type: none"> <li>● Change in staff</li> <li>● Lack of documentation</li> <li>● Change in methodology</li> <li>● Other: please specify</li> </ul>	Text field

## City-wide External Verification

If Yes is selected in response to 7.0:

#### 7.12 Has the city-wide GHG emissions data you are currently reporting been externally verified or audited in part or in whole?

##### Response Options

Select one of the following options:

- Yes
- No
- In progress
- Intending to undertake in future
- Not intending to undertake
- Do not know

If Yes is selected in response to 7.12:

#### 7.12a Please provide the following information about the city-wide emissions verification.

##### Response Options

Please complete the following table:

Name of verifier	Year of verification	Attach verification certificate	Comments
Text field	Numerical field	Attachment your document here.	Text field

If No, Not intending to undertake or Intending to undertake in future is selected in response to 7.12:

#### 7.12b Please explain why your city-wide emissions inventory is not verified and describe any plans to verify your city-wide emissions in the future.

##### Response Options

Please complete the following table:

Reason	Comments
Select from: <ul style="list-style-type: none"><li>• Verification under consideration</li><li>• Lack of funding / resources</li><li>• Lack of expertise / knowledge</li><li>• Verification is not prioritised</li><li>• Data is internally verified</li><li>• Other: please specify</li></ul>	Text field

## Re-stating previous emissions inventories

---

If Yes is selected in response to 7.0:

**7.13 Since your last submission, have you needed to recalculate any past city-wide GHG emission inventories previously reported to CDP?**

**Response Options**

Select one of the following options:

- Yes
- No
- Do not know

*If Yes is selected in response to 7.13:*

**7.13a Please provide your city’s recalculated total city-wide emissions figures for any previous inventories along with Scope 1, 2 and 3 breakdowns where applicable.**

**Response Options**

Please complete the following table. You are able to add rows by using the “Add Row” button at the bottom of the table.

Inventory date from	Inventory date to	Scope	Previous emissions (metric tonnes CO2e)	Updated emissions (metric tonnes CO2e)	Updated methodology	Attach your new inventory	Reasoning for recalculating
Date field	Date field	Select from: <ul style="list-style-type: none"><li>• Total emissions</li><li>• Scope 1</li><li>• Scope 2</li><li>• Scope 3</li><li>• Other: please specify</li></ul>	Numerical field	Numerical field	See drop-down options below	Attach your document here.	Text field

[Add Row]

**Updated methodology drop-down options**

Select from:

- Global Protocol for Community Greenhouse Gas Emissions Inventories (GPC)
- International Emissions Analysis Protocol (ICLEI)
- International Standard for Determining Greenhouse Gas Emissions for Cities (UNEP and World Bank)
- 2006 IPCC Guidelines for National Greenhouse Gas Inventories
- U.S. Community Protocol for Accounting and Reporting of Greenhouse Gas Emissions (ICLEI)
- Greenhouse gas Inventory & Research Center of Korea (GIR)
- Regional or country specific methodology
- City specific methodology
- Other: please specify



GHG Emissions Reduction - Local Government Operations

The questions in this section refer to emissions reduction targets and actions associated with your local government operations (sometimes referred to as "corporate" or "municipal") emissions. Targets related to the city-wide emissions (also known as "community") inventory should be reported on the next page in questions 8.2 and 8.3.

8.0 Do you have a GHG emissions reduction target in place for your local government operations?

Response Options

Select one of the following options:

- Yes
- No

If Yes is selected in response to 8.0:

8.0a Please provide details of your local government operations emissions reduction target.

Response Options

Please complete the following table. You are able to add rows by using the "Add Row" button at the bottom of the table.

Sector	Target start year	Baseline year	Baseline emissions (metric tonnes CO2e)	Percentage reduction target	Target date	Percentage of target acheived	Comment
Select from: <ul style="list-style-type: none"><li>● Total</li><li>● Buildings</li><li>● Transport</li><li>● Waste</li><li>● Other: please specify</li></ul>	Numerical field	Numerical field	Numerical field	Numerical field	Numerical field	Numerical field	Text field

[Add Row]

If No is selected in response to 8.0:

8.0b Please explain why you do not have a local government operations emissions reduction target.

Response Options

This is an open text question.

Please note that when copying from another document into the disclosure platform, formatting is not retained.

8.1 What actions are you undertaking to reduce your emissions in your local government operations?

Response Options

Please complete the following table.You are able to add rows by using the “Add Row” button at the bottom of the table.

Emissions reduction project activity	Status of project	Estimated emissions reduction (metric tonnes CO2e)	Estimated emissions reduction timescale	Project description	Web link to project website
Select from Appendix D	Select from: <ul style="list-style-type: none"><li>● Scoping</li><li>● Pre-feasibility study</li><li>● Pre-implementation</li><li>● Implementation;</li><li>● Operation</li><li>● Implementation complete</li><li>● Monitoring and reporting</li></ul>	Numerical field	Select from: <ul style="list-style-type: none"><li>● Per year</li><li>● Projected lifetime</li><li>● Other: please specify</li></ul>	Text field	Text field

[Add Row]

Emissions reduction – City-wide

The questions in this section refer to emissions reduction targets and actions associated with your city's Community (sometimes referred to as "geographic" or "city-wide") emissions. Targets related to the local government operations (also known as "municipal") inventory should be reported on the previous page in questions 8.0 and 8.1.

8.2 Does your city have a climate change action plan for reducing city-wide GHG emissions?

Response Options

Select one of the following options:

- Yes
- No
- In progress
- Intending to undertake in future
- Not intending to undertake
- Do not know

If Yes is selected in response to 8.2:

8.2a Please attach your city’s climate change action plan below.

Response Options

Please complete the following table.You are able to add rows by using the “Add Row” button at the bottom of the table.

Publication title	Year of publication	Attach	Web link	Stage of implementation
Text field	Numerical field	Attach your document here.	Text field	Select from: <ul style="list-style-type: none"> <li>● Plan in development</li> <li>● Plan developed but not implemented</li> <li>● Plan in implementation</li> <li>● Implementation complete</li> <li>● Measurement in progress</li> <li>● Plan update in progress</li> <li>● Other: please specify</li> </ul>

[Add Row]

If No, Not intending to undertake, or Intending to undertake in future is selected in response to 8.2:

### 8.2c Please explain why you do not have a city climate change action plan and any future plans to create one.

#### Response Options

Please complete the following table:

Reason	Comment
Select from: <ul style="list-style-type: none"> <li>● No plans yet to create an action plan</li> <li>● Resources lacking to create an action plan</li> <li>● Action plan in early stages of project planning</li> <li>● Action planning in progress</li> <li>● Lack of budget/resources</li> <li>● Other: please specify</li> </ul>	Text field

### 8.3 Do you have a GHG emissions reduction target in place at the city-wide level?

#### Response Options

Select all that apply:

- Base year emissions (absolute) target
- Base year intensity target
- Baseline scenario (business as usual) target
- No target

If “Base year emissions (absolute) target” is selected in response to 8.3

### 8.3a Please provide details of your total city-wide base year emissions reduction (absolute) target. In addition, you may add rows to provide details of your sector-specific targets, by providing the base year emissions specific to that target.

#### Response Options

Please complete the following table. You are able to add rows by using the “Add Row” button at the bottom of the table.

Sector	Target start year	Base year	Base year emissions (metric tonnes CO2e)	Percentage reduction target	Target year	Percentage of target achieved so far	Comment
Select from: <ul style="list-style-type: none"> <li>• Total city-wide emissions</li> <li>• Stationary energy (buildings)</li> <li>• Residential buildings</li> <li>• Commercial buildings</li> <li>• Industrial buildings</li> <li>• Transportation</li> <li>• Road</li> <li>• Rail</li> <li>• Waste</li> <li>• Wastewater</li> <li>• Other: please specify</li> </ul>	Numerical field	Numerical field	Numerical field	Percentage field	Numerical field	Percentage field	Text field

[Add Row]

If “Base year intensity target” is selected in response to 8.3:

**8.3b Please provide details of your total city-wide base year intensity target. An intensity target is usually measured per capita or per unit GDP. If you have an absolute emissions reduction target, please select “Base year emissions (absolute) target” in question 8.3.**

### Response Options

Please complete the following table. The table is displayed over several rows for readability. You are able to add rows by using the “Add Row” button at the bottom of the table.

Sector	Target start year	Intensity unit (Emissions per)	Base year	Base year emissions per intensity unit (metric tonnes CO2e per denominator)
Select from: <ul style="list-style-type: none"> <li>• Total city-wide emissions</li> <li>• Stationary energy (buildings)</li> <li>• Residential buildings</li> <li>• Commercial buildings</li> <li>• Industrial buildings</li> <li>• Transportation</li> <li>• Road</li> <li>• Rail</li> <li>• Waste</li> <li>• Wastewater</li> <li>• Other: please specify</li> </ul>	Numerical field	Select from: <ul style="list-style-type: none"> <li>• Metric tonnes of CO2e per capita</li> <li>• Metric tonnes of CO2e per unit GDP</li> <li>• Other: please specify</li> </ul>	Numerical field	Numerical field

Percentage reduction target in emissions intensity	Target year	Percentage of target achieved	Comment
Numerical field	Numerical field	Percentage field	Text field

[Add Row]

If "Baseline scenario (business as usual) target" is selected in response to 8.3:

8.3c Please provide details of your total city-wide baseline scenario target, including projected business as usual emissions.

Response Options

Please complete the following table. The table is displayed over several rows for readability. You are able to add rows by using the "Add Row" button at the bottom of the table.

Sector	Target start year	Base year	Base year emissions (metric tonnes CO2e)	Target year
Select from: <ul style="list-style-type: none"><li>• Total city-wide emissions</li><li>• Stationary energy (buildings)</li><li>• Residential buildings</li><li>• Commercial buildings</li><li>• Industrial buildings</li><li>• Transportation</li><li>• Road</li><li>• Rail</li><li>• Waste</li><li>• Wastewater</li><li>• Other: please specify</li></ul>	Numerical field	Numerical field	Numerical field	Numerical field

Estimated business as usual absolute emissions in target year (metric tonnes CO2e)	Percentage reduction target from business as usual	Percentage of target achieved	Comment
Numerical field	Percentage field	Percentage field	Text field

[Add Row]

If "No target" is selected in response to 8.3:

8.3d Please explain why you do not have a city-wide emissions reduction target and any plans to set one in the future.

Response Options

Please complete the following table:

Reason	Comment
Select from: <ul style="list-style-type: none"><li>• Emissions not calculated</li><li>• Not intending to set a target</li><li>• Lack of resources</li><li>• Lack of available data</li><li>• Policies/projects prioritized over target setting</li><li>• Target is set at regional level</li><li>• Target is set at national level</li><li>• Target is in development</li><li>• Target already achieved</li><li>• Other: please specify</li></ul>	Text field

8.4 What actions is your city taking to reduce emissions? Please also indicate estimated emissions reduction potential and status of the emissions reduction actions your city has planned.

Response Options

Please complete the following table. You are able to add rows by using the “Add Row” button at the bottom of the table.

Emissions reduction project activity	Status of project	Estimated emissions reduction (metric tonnes CO2e)	Estimated emissions reduction timescale	Project description	Web link to project website
Select from Appendix E	Select from: <ul style="list-style-type: none"><li>● Scoping</li><li>● Pre-feasibility study</li><li>● Pre-implementation</li><li>● Implementation</li><li>● Operation</li><li>● Implementation complete</li><li>● Monitoring and reporting</li></ul>	Numerical field	Select from: <ul style="list-style-type: none"><li>● Per year</li><li>● Projected lifetime</li><li>● Other: please specify</li></ul>	Text field	Text field

[Add Row]

Energy

9.0 Please indicate the energy mix of electricity consumed in your city.

Response Options

Please complete the following table:

Energy source	Percent
Coal	Percentage field
Gas	Percentage field
Oil	Percentage field
Nuclear	Percentage field
Hydro	Percentage field
Biomass	Percentage field
Wind	Percentage field
Geothermal	Percentage field
Solar	Percentage field
Other sources	Percentage field

9.1 How much (in MW capacity) renewable energy is installed within the city boundary in the following categories?

## Response Options

Please complete the following table:

Type	MW capacity
Renewable district heat/cooling	Numerical field
Solar PV	Numerical field
Solar thermal	Numerical field
Ground or water source	Numerical field
Wind	Numerical field
Other: please specify	Numerical field

## 9.2 Does your city have a renewable energy or electricity target?

### Response Options

Select one of the following options:

- Yes
- No
- In progress
- Intending to undertake in future
- Not intending to undertake
- Do not know

If Yes is selected in response to 9.2:

## 9.2a Please provide details of your renewable energy or electricity target and how the city plans to meet those targets.

### Response Options

Please complete the following table. The table is displayed over several rows for readability. You are able to add rows by using the "Add Row" button at the bottom of the table.

Scale	Energy / electricity types covered by target	Base year	Total renewable energy / electricity covered by target in base year (in unit specified in column 2)	Percentage renewable energy / electricity of total energy or electricity in base year
Select from: <ul style="list-style-type: none"> <li>• City-wide</li> <li>• Local government operations</li> </ul>	Select from: <ul style="list-style-type: none"> <li>• <b>Total installed capacity of renewable energy</b> (in MW)</li> <li>• <b>Total installed capacity of renewable electricity</b> (in MW)</li> <li>• <b>All energy produced</b> (in MWh)</li> <li>• <b>All electricity produced</b> (in MWh)</li> <li>• <b>All energy consumed</b> (in MWh)</li> <li>• <b>All electricity consumed</b> (in MWh)</li> <li>• Other: please specify</li> </ul>	Numerical field	Numerical field	Percentage field

Target year	Total renewable energy / electricity covered by target in target year (in unit specified in column 2)	Percentage renewable energy / electricity of total energy or electricity in target year	Percentage of target achieved	Plans to meet target (include details on types of energy/electricity)
Numerical field	Numerical field	Percentage field	Percentage field	Text field

[Add Row]

If No, Not intending to undertake, or Intending to undertake is selected in response to 9.2

**9.2b Please explain why you do not have a renewable energy or electricity target and any plans to introduce one in the future.**

#### Response Options

Please complete the following table:

Reasoning	Comment
Select from: <ul style="list-style-type: none"> <li>● Target already achieved</li> <li>● Energy / electricity is not in city control</li> <li>● Lack of renewable energy potential within the city</li> <li>● Lack of funding</li> <li>● The grid is not controlled by the city</li> <li>● Renewable energy not prioritized</li> <li>● Target is under development / consideration</li> <li>● Other: please specify</li> </ul>	Text field

**9.3 Does your city have an agreement to purchase a level of renewable electricity from the grid or from a national or municipal utility?**

#### Response Options

Select one of the following options:

- Yes
- No
- In progress
- Do not know

If Yes is selected in response to 9.3:

**9.3a What is the agreement or target?**

#### Response Options

This is an open text question.

Please note that when copying from another document into the disclosure platform, formatting is not retained.

## Transport



## 11.0 What is the mode share of each transport mode in your city?

### Response Options

Please complete the following table:

	Mode share
Private motorized transport	Percentage field
Rail/Metro/Tram	Percentage field
Buses (including BRT)	Percentage field
Ferries/ River boats	Percentage field
Walking	Percentage field
Cycling	Percentage field
Taxis or For Hire Vehicles	Percentage field
Other: please specify	Percentage field

## 11.4 Please provide the total fleet size and number of vehicle types for the following modes of transport.

### Response Options

Please complete the following table:

	Number of private cars	Number of buses	Number of municipal fleet (excluding buses)	Number of freight vehicles	Number of taxis	Transport Network Companies (e.g. Uber, Lyft) fleet size	Customer-drive carshares (e.g. Car2Go, Drivenow) fleet size
Total fleet size	Numerical field	Numerical field	Numerical field	Numerical field	Numerical field	Numerical field	Numerical field
Electric	Numerical field	Numerical field	Numerical field	Numerical field	Numerical field	Numerical field	Numerical field
Hybrid	Numerical field	Numerical field	Numerical field	Numerical field	Numerical field	Numerical field	Numerical field
Plug in hybrid	Numerical field	Numerical field	Numerical field	Numerical field	Numerical field	Numerical field	Numerical field
Hydrogen	Numerical field	Numerical field	Numerical field	Numerical field	Numerical field	Numerical field	Numerical field

# Water

## Water Supply

### 15.0 What are the sources of your city's water supply?

#### Response options

Select all that apply:

- Surface water
- Ground water
- Desalinated seawater
- Recycled / reclaimed water
- Rainwater
- Other source

### 15.3 Do you foresee substantive risks to your city’s water supply in the short or long term?

#### Response options

Select one of the following options:

- Yes
- No
- Do not know

If Yes or Do not know is selected in response to 15.3:

### 15.3a Please identify the risks to your city’s water supply as well as the timescale and level of risk.

#### Response Options

Please complete the following table. You are able to add rows by using the “Add Row” button at the bottom of the table.

Risks	Timescale	Magnitude	Risk description
Select from: <ul style="list-style-type: none"><li>● Increased water stress or scarcity</li><li>● Declining water quality</li><li>● Inadequate or aging infrastructure</li><li>● Higher water prices</li><li>● Regulatory</li><li>● Increased water demand</li><li>● Energy supply issues</li></ul>	Select from: <ul style="list-style-type: none"><li>● Current</li><li>● Short-term</li><li>● Medium-term</li><li>● Long-term</li></ul>	Select from: <ul style="list-style-type: none"><li>● Extremely serious</li><li>● Serious</li><li>● Less Serious</li></ul>	Text field

[Add Row]

If No is selected in response to 15.3:

15.3b Please explain why you do not consider your city to be exposed to any substantive water-related risk.

Response Options

Please complete the following table:

Reason	Explanation
Select from: <ul style="list-style-type: none"><li>City water supply is secure</li><li>Risks are not substantive</li><li>No assessment of water risks undertaken</li><li>Other: please specify</li></ul>	Text field

Water Supply Management

If Yes is selected in response to 15.3:

15.4 Please select the actions you are taking to reduce the risks to your city's water supply.

Response Options

Please complete the following table. You are able to add rows by using the "Add Row" button at the bottom of the table.

Risks	Adaptation action	Action description
Populated from 15.3a	Select from: <ul style="list-style-type: none"><li>Conservation awareness and education</li><li>Conservation incentives</li><li>Water use restrictions</li><li>Efficiency regulations or standards</li><li>Water metering</li><li>Municipal water efficiency retrofits</li><li>Diversifying water supply (including new sources)</li><li>Investment in existing water supply infrastructure</li><li>Use of non-potable water outside</li><li>Use of non-potable water indoors (within building)</li><li>Watershed preservation</li><li>Stormwater management (natural or man-made infrastructure)</li><li>Other: please specify</li></ul>	Text field

[Add Row]

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## Important Information

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CDP has been making information requests relating to carbon and climate change on behalf of investors since 2003. To find out more about CDP and the previous responses from other organizations, please refer to our website at [www.cdp.net](http://www.cdp.net).

### What are the financial implications of responding?

CDP has charitable status and seeks to use its limited funds effectively. Consequently, responses must be prepared and submitted at the expense of responding cities. CDP also reserves the right, where it deems it appropriate in view of its charitable aims and objectives, to charge for access to or use of data and/or reports it publishes or commissions.

### What is the basis of participation and what will happen to the data received?

When responding to CDP you will be given a choice as to whether your response is made public or non-public. We strongly encourage cities to make their responses public which means that the response will be made publicly available from the CDP website. Non-public responses will not be made publicly available and will only be used in aggregate and/or anonymously. Any responses submitted to the Global Covenant of Mayors (GCoM) will be considered public.

### Scoring of responses

CDP provides private scores to cities who respond to the CDP Cities 2018 information request, the scoring methodology can be found [here](#). Responses to CDP Cities 2018 will not be scored publicly by CDP or its partners. CDP is considering publicly scoring responses in the future.

### What if a city wishes to change or update a response?

After you submit your response via the Online Response System, it will become 'read-only' and any amendments can be made through the dashboard. Please submit and make all necessary amendments by the submission deadline.

### How can a city confirm its participation?

If you received this document in hard copy, please email [Cities@cdp.net](mailto:Cities@cdp.net) to confirm your participation.

### What is the legal status of CDP?

CDP Worldwide (CDP) is a UK Registered Charity no. 1122330 and a company limited by guarantee registered in England and Wales no. 05013650 with its registered office at Level 3, 71 Queen Victoria Street, London EC4V 4AY. The charity has wholly owned subsidiaries in Germany and China and companies in Australia, Brazil and India over which it exercises control through majority Board representation. In the US, CDP North America, Inc. is an independently incorporated affiliate which has United States IRS 501(c)(3) charitable status.

CDP is an independent not-for-profit organization holding the largest database of primary corporate climate change information in the world.

Thousands of organizations from across the world's major economies measure and disclose their greenhouse gas emissions and climate change strategies through CDP. CDP puts this information at the heart of financial and policy decision-making and its goal is to collect and distribute high quality information that motivates investors, corporations and governments to take action to prevent dangerous climate change.

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## Appendices

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### Appendix A: Currency

AED United Arab Emirates dirham

AFN Afghani

ALL Lek

AMD Armenian Dram

ANG Netherlands Antillian Guilder

AOA Kwanza

ARS Argentine Peso

AUD Australian Dollar

AWG Aruban Guilder

AZN Azerbaijanian Manat

BAM Convertible Marks

BBD Barbados Dollar

BDT Bangladeshi Taka

BGN Bulgarian Lev

BHD Bahraini Dinar

BIF Burundian Franc

BMD Bermudian Dollar (customarily known as Bermuda Dollar)

BND Brunei Dollar

BOB Boliviano

BOV Bolivian Mvdol (Funds code)

BRL Brazilian Real

BSD Bahamian Dollar

BTN Ngultrum

BWP Pula

BYR Belarussian Ruble

BZD Belize Dollar

CAD Canadian Dollar

CDF Franc Congolais

CHE WIR Euro (complementary currency)

CHF Swiss Franc

CHW WIR Franc (complementary currency)

CLF Unidades de fomento (Funds code)

CLP Chilean Peso

CNY Yuan Renminbi

COP Colombian Peso

COU Unidad de Valor Real

CRC Costa Rican Colon

CUP Cuban Peso

CVE Cape Verde Escudo

CYP Cyprus Pound

CZK Czech Koruna

DJF Djibouti Franc

DKK Danish Krone

DOP Dominican Peso

DZD Algerian Dinar

EEK Kroon

EGP Egyptian Pound

ERN Nakfa

ETB Ethiopian Birr

EUR Euro

FJD Fiji Dollar

FKP Falkland Islands Pound

GBP Pound Sterling

GEL Lari

GHS Cedi

GIP Gibraltar pound

GMD Dalasi

GNF Guinea Franc

GTQ Quetzal

GYD Guyana Dollar

HKD Hong Kong Dollar

HNL Lempira

HRK Croatian Kuna

HTG Haiti Gourde

HUF Forint

IDR Rupiah

ILS New Israeli Shekel

INR Indian Rupee

IQD Iraqi Dinar

IRR Iranian Rial

ISK Iceland Krona

JMD Jamaican Dollar

JOD Jordanian Dinar

JPY Japanese yen

KES Kenyan Shilling

KGS Som

KHR Riel

KMF Comoro Franc

KPW North Korean Won

KRW South Korean Won

KWD Kuwaiti Dinar

KYD Cayman Islands Dollar

KZT Tenge

LAK Kip

LBP Lebanese Pound

LKR Sri Lanka Rupee

LRD Liberian Dollar



LSL Loti

LTL Lithuanian Litas

LVL Latvian Lats

LYD Libyan Dinar

MAD Moroccan Dirham

MDL Moldovan Leu

MGA Malagasy Ariary

MKD Denar

MMK Kyat

MNT Tugrik

MOP Pataca

MRO Ouguiya

MTL Maltese Lira

MUR Mauritius Rupee

MVR Rufiyaa

MWK Kwacha

MXN Mexican Peso

MXV Mexican Unidad de Inversion (UDI) (Funds code)

MYR Malaysian Ringgit

MZN Metical

NAD Namibian Dollar

NGN Naira

NIO Cordoba Oro

NOK Norwegian Krone

NPR Nepalese Rupee

NZD New Zealand Dollar

OMR Rial Omani

PAB Balboa

PEN Nuevo Sol

PGK Kina

PHP Philippine Peso

PKR Pakistan Rupee

PLN Zloty

PYG Guarani

QAR Qatari Rial

RON Romanian New Leu

RSD Serbian Dinar

RUB Russian Ruble

RWF Rwanda Franc

SAR Saudi Riyal

SBD Solomon Islands Dollar

SCR Seychelles Rupee

SDG Sudanese Pound

SEK Swedish Krona

SGD Singapore Dollar

SHP Saint Helena Pound

SKK Slovak Koruna

SLL Leone

SOS Somali Shilling

SRD Surinam Dollar

STD Dobra

SYP Syrian Pound

SZL Lilangeni

THB Baht

TJS Somoni

TMM Manat

TND Tunisian Dinar

TOP Pa'anga

TRY New Turkish Lira

TTD Trinidad and Tobago Dollar

TWD New Taiwan Dollar

TZS Tanzanian Shilling

UAH Hryvnia

UGX Uganda Shilling

USD US Dollar

UYU Peso Uruguayo

UZS Uzbekistan Som

VEB Venezuelan bolívar

VND Vietnamese đồng

VUV Vatu

WST Samoan Tala

XAF CFA Franc BEAC

XAG Silver (one Troy ounce)

XAU Gold (one Troy ounce)

XBA European Composite Unit (EURCO) (Bonds market unit)

XBB European Monetary Unit (E.M.U.-6) (Bonds market unit)

## **Appendix B: Actions to reduce vulnerability**

No action currently taken

Flood mapping

Heat mapping and thermal imaging

Landslide risk mapping

Sea level rise modelling

Biodiversity monitoring

Real time risk monitoring

Crisis management including warning and evacuation systems

Public preparedness (including practice exercises/drills)

Community engagement/education

Projects and policies targeted at those most vulnerable

Testing/vaccination programmes for vector-borne disease

Disease prevention measures

Air quality initiatives

Incorporating climate change into long-term planning documents

Restrict development in at risk areas

Resilience and resistance measures for buildings

Hazard resistant infrastructure design and construction

Diversifying power/energy supply

Economic diversification measures

Flood defences – development and operation & storage

Storm water capture systems

Additional reservoirs and wells for water storage

Soil retention strategies

Tree planting and/or creation of green space

Green roofs/walls

White roofs

Shading in public spaces, markets

Cooling systems for critical infrastructure

Retrofit of existing buildings

Cooling centers, pools, water parks/plazas

Cool pavement

Water extraction protection

Promoting low flow technologies

Water butts/rainwater capture

Xeriscapes – low water landscaping design

Maintenance/repair – leaking infrastructure

Optimizing delivery fuel mix of water supply

Improve water supply distribution method

Promoting and incentivizing water efficiency

Water use restrictions and standards

Water efficient equipment and appliances

Water smart metering

Water use audits

Awareness campaign/education to reduce water use

Diversification of water supply

Other

## **Appendix C: Fuel Type**

Natural gas

Compressed Natural Gas (CNG)

Liquefied Petroleum Gas (LPG)

Liquefied Natural Gas (LNG)

Methane

Butane

Propane

Town gas or city gas

Coal (Bituminous or Black coal)

Coking coal

Crude oil

Diesel/Gas oil

Motor gasoline (petrol)

Aviation gasoline

Jet gasoline

Jet kerosene

Kerosene

Residual fuel oil

Distillate fuel oil No 1

Distillate fuel oil No 2

Distillate fuel oil No 3

Distillate fuel oil No 4

Distillate fuel oil No 5

Distillate fuel oil No 6

Liquified petroleum gas (LPG)

Naptha

Bitumen

Petroleum coke

Wood or wood waste

Biodiesel

Biogasoline

Ethanol

E85

Other liquid biofuel

Landfill gas

Other biogas

Waste (municipal)

Other

#### **Appendix D: Local government operations emissions reduction activities (question 8.1)**

Building codes and standards

Building performance rating and reporting

Energy efficiency/ retrofit measures

On-site renewable energy generation

Switching to low-carbon fuels

Brownfield redevelopment programs

Compact cities

Eco-district development strategy

Green space and/ or biodiversity preservation and expansion

Transit oriented development

Urban agriculture

Low or zero carbon energy supply generation

Optimize traditional power/ energy production

Smart grid

Developing the green economy

Encourage sustainable food production and consumption



LED / CFL / other luminaire technologies

Smart lighting

Awareness and education for non-motorized transport

Improve fuel economy and reduce CO2 from motorized vehicles

Infrastructure for non-motorized transport

Transportation demand management

Recycling or composting collections and/or facilities

Wastewater to energy initiatives

Water metering and billing

Water recycling and reclamation

#### **Appendix E: City-wide emissions reduction activities (question 8.4)**

Buildings > Building codes and standards

Buildings > Building performance rating and reporting

Buildings > Carbon emissions reduction from industry

Buildings > Energy efficiency/ retrofit measures

Buildings > On-site renewable energy generation

Buildings > Switching to low-carbon fuels

Community-Scale Development > Brownfield redevelopment programs

Community-Scale Development > Building standards

Community-Scale Development > Compact cities

Community-Scale Development > Eco-district development strategy

Community-Scale Development > Green space and/ or biodiversity preservation and expansion

Community-Scale Development > Low carbon industrial zones

Community-Scale Development > Transit oriented development

Community-Scale Development > Urban agriculture

Energy Supply > Low or zero carbon energy supply generation

Energy Supply > Optimize traditional power/ energy production

Energy Supply > Smart grid

Energy Supply > Transmission and distribution loss reduction

Finance and Economic Development > Developing the green economy

Finance and Economic Development > Instruments to fund low carbon projects

Finance and Economic Development > Low-carbon industrial zones

Food and Agriculture > Encourage sustainable food production and consumption

Mass Transit > Improve bus infrastructure, services, and operations

Mass Transit > Improve fuel economy and reduce CO2 from bus and/or light rail

Mass Transit > Improve fuel economy and reduce CO2 from ferries

Mass Transit > Improve fuel economy and reduce CO2 from trucks

Mass Transit > Improve rail, metro, and tram infrastructure, services and operations

Mass Transit > Smart public transport

Outdoor Lighting > LED / CFL / other luminaire technologies

Outdoor Lighting > Smart lighting

Private Transport > Awareness and education for non-motorized transport

Private Transport > Improve fuel economy and reduce CO2 from aviation

Private Transport > Improve fuel economy and reduce CO2 from motorized vehicles

Private Transport > Improve fuel economy and reduce CO2 from trucks (private)

Private Transport > Improve the efficiency of freight systems

Private Transport > Improve the operations of shipping ports

Private Transport > Infrastructure for non-motorized transport

Private Transport > Transportation demand management

Waste > Improve the efficiency of long-haul transport

Waste > Improve the efficiency of waste collection

Waste > Landfill management

Waste > Recyclables and organics separation from other waste

Waste > Recycling or composting collections and/or facilities

Waste > Waste prevention policies and programs

Water > Wastewater to energy initiatives

Water > Water metering and billing

Water > Water recycling and reclamation