

# CDP states and regions 2014

## Information Request

# Overview

We invite a reply to the following questions. The deadline for response is 29 August 2014.

Please respond to the information request using the Online Platform. This document shows all the possible questions that regions may encounter. However, it should not be used in lieu of the online platform. If you are unable to respond online please e-mail [regions@cdp.net](mailto:regions@cdp.net)

The following sources of support are available to responding regional governments:

- ▼ CDP states and regions 2014 Reporting Guidance:  
This document provides a high-level overview of each module 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.
- ▼ Contact us: You can write to [regions@cdp.net](mailto:regions@cdp.net) or dial +44 (0) 207 415 7035 for questions which are not answered in the guidance, for help accessing the online platform, or for general inquiries. We are based in the UK, and so our office hours are 09:00 - 18:00 BST, Monday to Friday.

For simplicity, the term "regions" is used throughout the Online Platform as the generic reference to the variety of sub-national governing bodies taking the survey, such as states, provinces and regions. When completing the information request, please answer the questions comprehensively while also assessing the relevance of the information you provide. If you do not have all of the information requested for a specific question, please respond with what you have as this is more valuable than no response. Further information provided in the CDP states and regions 2014 Reporting Guidance.

Answers to the 6 sections of the questionnaire, labeled Introduction; Governance; Risks and Adaptation; Emissions – Regional Government; Emissions – Region; and Strategy will provide insights for participating regions into the risks, opportunities and trends that may exist across the group.

## Overview questions

- ▼ **Would you like your response data to be public or private? [List of values: Yes, No]**
- ▼ **Do you wish to submit your answers to the information request? [List of Values: Yes – I am ready to submit my answers]**

# Introduction

## Introduction

### 0. Introduction

### 0. Sub-national Background

#### Q 0.1: Please provide the following introductory details for your region.

- ▼ Leader titles
- ▼ Leader name
- ▼ Annual operational budget (\$)
- ▼ Current populations
- ▼ Projected population in 2025
- ▼ Average temperature
- ▼ Land area (in square miles)

#### Q 0.2: Please give a general description and introduction to your region.

You are not required to give an introduction to your region, but please do so if you wish. The information provided here will assist CDP in drawing upon distinctions, similarities, and comparative features between regions in terms of their operational emissions, those arising within their boundary, and tools and successes in mitigating and adapting to climate change. Information that could be provided includes:

- ▼ Location
- ▼ Boundaries
- ▼ Geographic characteristics
- ▼ Natural features
- ▼ Economic strengths / main economic sectors
- ▼ Main cities or urban centers
- ▼ Changes in regional development and regional growth over the short to medium term
- ▼ Forecasted changes in regional development and regional growth over the long term
- ▼ Institutional governance frameworks of the region
- ▼ Relationship with national government

#### Q 0.3: Please indicate which greenhouse gas (GHG) measurement inventories you are disclosing.

CDP allows regions to report emissions figures for two separate but parallel inventories:

- ▼ Regional government (sometimes referred to as “corporate”): relating to those emissions arising from the activities and operations of the regional government;
- ▼ Regional (sometimes referred to as “geographic” or “region/state-wide”): encompassing emissions which are within a particular geopolitical region, over which regional governments can exercise a degree of influence through the policies and regulations they implement.

# Governance

## Governance

### General Guidance

This section provides an opportunity for you to report on the management structure and processes for handling climate change in your region.

### Specific Question Guidance

#### 1. Governance

**Q 1.0: Please describe the process by which the regional government reviews its progress and manages overall responsibility for climate change. [Text box]**

**Q 1.1: Does your region provide incentives for management of climate change issues, including the attainment of GHG reduction targets? [List of values: Yes, No]**

**Q 1.1a: If yes, please complete the following.**

This question only appears if you answer “yes” to Question 1.1 (see above). For all three fields options should be selected from the following:

| Who is entitled to benefit from these incentives?  | The type of incentives   | Program description |
|--|--|---------------------|
| [List of values: Regional government employees; Regional government agencies/departments; Large commercial and industrial facilities; Businesses; Citizens; Other] | [List of values: Monetary; Recognition (non-monetary); Other non-monetary reward; Other] | [Text box]          |

Option to “add another”

**Q 1.2: Please describe the impact of national activities on your region’s own climate change activities. [Text box]**

# Risks & Adaptation

## Risks & Adaptation

### 2. Physical risks

**Q 2.0: Do current and/or anticipated effects of climate change present significant physical risks to your region? [List of values: Yes, No, Don't know]**

- ▼ Yes – will direct you to Question 2.0a and 3.1
- ▼ No – will direct you to Question 2.0b
- ▼ Don't Know – will direct you to Question 2.0a

**Q 2.0a: If yes or don't know, please list and describe the effects of climate change which you expect to experience in your region, together with anticipated timescales.**

| Effects of climate change  | Level of risk   | Anticipated timescale in years                                       | Impact description |
|--|---|--|--------------------|
| [List of values: More hot days; Hotter summers; More frequent heat waves; More intense heat waves; Warmer water temperatures; Increased urban heat island effect; More frequent rainfall; More intense rainfall; Increased average annual rainfall; Reduced average annual rainfall; Reduced average annual snowfall; More frequent droughts; More intense droughts; Change in seasonality of rainfall; Increased risk of storm surges; Increased frequency of large storms; Increased wind speeds; Sea level rise; Other] | [List of values: Extremely serious; Serious; Less serious; Other] | [List of values: Current; Short-term; Medium-term; Long-term; Other] | [Text box]         |

Option to "add another"

**Q 2.0b: If no, please explain why the anticipated physical effects of climate change present no significant risk to your region. [Text box]**

**Q 2.1: Please describe any other compounding factors that may worsen the physical effects of climate change in your region. [Text box]**

**Q 2.2: Do you consider that the physical impacts of climate change could threaten the ability of businesses to operate successfully in your region? [List of values: Yes; No; Don't know]**

**Q 2.2a: Please explain the reasoning behind your response. [Text box]**

**Q 2.3: Please select the primary process or methodology used to evaluate the physical risks to your region.**

| Primary methodology  | Description |
|--|-------------|
| [List of values: IPCC models and climate change impact assessment guidance; OECD Strategic Environmental Assessment and Adaptation to Climate Change; UNDP climate risk management methodologies; ICLEI climate adaptation methodology (ADAPT); UK Climate Impacts Partnership Framework (UKCIP); World Bank Urban Risk Assessment(URA); Shaping climate resilient development: A framework for decision making (ECA); State or region vulnerability and risk assessment methodology; Agency specific vulnerability and risk assessment methodology; Other: Proprietary Methodology; Unknown; No evaluation done; Other] | [Text box]  |

### 3. Adaptation

**Q 3.0: Do you have a region-wide plan for increasing your region’s resilience to the expected physical effects of climate change? [List of values: Yes, No]**

- ▼ Yes – will direct you to Question 3.0a and 3.0b
- ▼ No – will direct you to Question 3.0c

**Q 3.0a: If yes, please indicate the title of your climate adaptation plan, the year it was published and its hyperlink if it is available to view online.**

| Publication title | Year of publication | Publication hyperlink |
|-------------------|---------------------|-----------------------|
| [Text box]        | [Numeric field]     | [Text box]            |

**Q 3.0b: If your climate adaptation plan is not available to view online, please send it as an attachment in an email to [regions@cdp.net](mailto:regions@cdp.net)**

**Q 3.0c: If no, please explain why not and any future arrangements you have to create a plan. [Text box]**

**Q 3.1: Please describe the actions you are taking to reduce the risk to your region’s infrastructure, citizens, and businesses from climate change as identified Q 2.0a.**

| Effects of climate change | Actions to reduce vulnerability | Action description |
|---------------------------|---------------------------------|--------------------|
|                           |                                 |                    |

|  |                              |            |
|--|------------------------------|------------|
| [List of values: More hot days; Hotter summers; More frequent heatwaves; More intense heatwaves; Warmer water temperatures; Increased urban heat island effect; More frequent rainfall; More intense rainfall; Increased average annual rainfall; Reduced average annual rainfall; Reduced average annual snowfall; More frequent droughts; More intense droughts; Change in seasonality of rainfall; Increased risk of storm surges; Increased frequency of large storms; Increased wind speeds; Sea level rise; Other] | [List of values: Appendix A] | [Text box] |
|--|------------------------------|------------|

Option to “add another”

#### 4. Social Risks

**Q 4.0: Does your region face any social risks as a result of climate change? [List of values: Yes, No, Don't know]**

Please respond by selecting “yes”, “no” or “don't know” from the drop down menu. If you answer “yes” or “don't know” you will be directed to question 4.0a, if you answer “no” you will be directed to question 4.0b

**Q 4.0a: If yes or don't know, please complete the question group.**

| Social risks  | Anticipated timescale in years                                       | Impact description |
|---|--|--------------------|
| [List of values: Fluctuating socio-economic conditions; Increased incidence and prevalence of disease; Increased demand for public services (including health); Increased risk to already vulnerable populations; Increased conflict and/or crime; Increased resource demand; Loss of traditional jobs; Migration from rural areas to cities; Population displacement; Other] | [List of values: Current; Short-term; Medium-term; Long-term; Other] | [Text box]         |

Option to “add another”

**Q 4.0b: If no, please explain why your region does not face social risks as a result of climate change. [Text box]**

# Emissions – Regional Government

## Emissions – Regional Government

### 5. Methodology

**Q 5.0: Please state the dates of the accounting year or 12-month period for which you are reporting a GHG measurement inventory for your regional government. [Text box with MM/DD/YYYY – MM/DD/YYYY]**

**Q 5.1: Please indicate the category that best describes the boundary of your GHG emissions inventory. [List of the following values]**

- ▼ Departments, entities or companies over which operational control is exercised;
- ▼ Departments, entities or companies over which financial control is exercised; and
- ▼ Other. [Text box provided]

**Q 5.2: Please indicate which of the following major sources of emissions are included in your GHG emissions inventory.**

| Source of emissions   | Status   |
|---|--|
| [Fixed list of values: Airport (s); Buildings; Buses; Electricity generation; Electricity transmission and distribution; Employee commuting; Incineration of waste; Landfills; Local trains; Maritime port; Vehicle fleet; Regional trains; Roads / highways; Street lighting and traffic signals; Subway / underground; Thermal energy; Waste collection; Wastewater treatment; Water supply; Other] | [List of values: Included; Not included; Not applicable] |

Option to “add another”

**Q 5.2a: If other, please use the box below to provide a description. [Text box]**

**Q 5.3: Please give the name of the primary protocol, standard, or methodology you have used to calculate GHG emissions.**

This question aims to understand which processes you have used to calculate emissions generated by your regional government.



| Primary protocol  | Comment    |
|---|------------|
| [List of values: Greenhouse Gas Protocol: Public Sector Standard; International Emissions Analysis Protocol (ICLEI); ISO 14064; Local Government Operations Protocol (ICLEI/The Climate Registry/California Climate Action Registry/ California Air Resources Board); Australian National Greenhouse and Energy Reporting (Measurement) Determination; Other] | [Text box] |

## 6. Energy data

**Q 6.0: Please give the total amount of fuel (refers to direct/Scope 1 emissions) that your regional government has consumed this year.**

| Fuel                         | Amount          | Units  |
|------------------------------|-----------------|--|
| [List of values: Appendix B] | [Numeric field] | [List of values: GWh; MWh; kWh; TJ; GJ; MJ; Therms; Btu m <sup>3</sup> ;L; Metric tonnes; Short tons ] |

Option to “add another”

**Q 6.1: How much electricity, heat, steam, and cooling (refers to indirect/Scope 2 emissions) has your regional government purchased for its own consumption during the reporting year?**

| Type   | Amount          | Units  |
|--|-----------------|--|
| [List of values: Electricity; Heat; Steam; Cooling; Other] | [Numeric field] | [List of values: GWh; MWh; kWh; TJ; GJ; MJ; Therms; Btu; m <sup>3</sup> ;L; Metric tonnes; Short tons] |

Option to “add another”

## 7. GHG Emissions Data

**Q 7.0: Please provide total (Scope 1+ Scope 2) GHG emissions for your regional government, in metric tonnes CO<sub>2</sub>e. [Numeric field]**

This question is your opportunity to enter a numeric value for the total figure for your regional government’s GHG emissions in the selected year. Please note that these are regional government emissions only and should be provided in metric tonnes CO<sub>2</sub>e.

**Q 7.1: If applicable, please provide the following GHG emissions.**

Scopes are a common categorization method.

Scope 1: All direct GHG emissions (with the exception of direct CO<sub>2</sub> emissions from biogenic sources).

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

| Total Scope 1 activity in metric tonnes CO <sub>2</sub> e emitted | Total Scope 2 activity in metric tonnes CO <sub>2</sub> e emitted |
|---|---|
| [Numeric field]   | [Numeric field]   |

**Q 7.2 Do you measure Scope 3 emissions? [List of values: Yes, No]**

**Q 7.2a: If yes, please provide more detail about how you measure Scope 3 emissions.**

| Source of Scope 3 emissions | Emissions (metric tonnes CO <sub>2</sub> e) | Comment    |
|-----------------------------|---|------------|
| [Text box]                  | [Numeric field]                             | [Text box] |

Option to “add another”

**Q 7.2b: If no, please explain why not and detail your plans to do so in the future, if any. [Text box]**

**Q 7.3: Where it will facilitate a greater understanding of your regional government emissions, please provide a breakdown of these emissions by department, facility, greenhouse gas (CO<sub>2</sub>, CH<sub>4</sub>, N<sub>2</sub>O etc) or by any other classification system used in your region.**

| Department / Facility / GHG / Other | Type   | Emissions (metric tonnes CO <sub>2</sub> e) |
|-------------------------------------|--|---|
| [Text box]                          | [List of values: Scope 1; Scope 2; Scope 3; Total figure, Other] | [Numeric field]                             |

Option to “add another”

**8. External verification**

**Q 8.0: Has the GHG emissions data you are currently reporting been externally verified or audited in part or in whole? [List of values: Yes, No]**

**Q 8.0a: If yes, please provide any other relevant information about the emissions verification process. [Text box]**

# Emissions – Region

## Emissions - Region

### 9. Date and Boundary

**Q 9.0: Please state the dates of the accounting year or 12-month period for which you are reporting a GHG measurement inventory for your region. [Text box with MM/DD/YYYY – MM/DD/YYYY]**

**Q 9.1: Please indicate the category that best describes the boundary of your regional GHG emissions inventory.**

- ▼ [List of values: Geopolitical Boundary—physical areas over which local government has jurisdictional control; Other [text box]]

### 10. Emissions and Energy data

**Q 10.0: Please give the name of the primary protocol, standard, or methodology you have used to calculate GHG emissions.** If you select Global Protocol for Community-Scale Greenhouse Gas Emissions (GPC) Pilot Version 1.0, (C40 and ICLEI), you will skip Questions 10.4, 10.5 and 10.6 and be directed to answer Question 10.7. If you choose any other protocol listed including 'Other' you will be directed to answer Questions 10.4, 10.5 and 10.6 and will skip Question 10.7.

Primary protocol

[List of values: 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; Global Protocol for Community-Scale Greenhouse Gas Emissions (GPC) Pilot Version 1.0, (C40 and ICLEI); U.S. Community Protocol for Accounting and Reporting of Greenhouse Gas Emissions (ICLEI); Greenhouse gas Inventory & Research Center of Korea (GRI); Other]

**Q 10.1: Please explain your methodology (including use of additional protocol), methods of calculation, and processes for data collection. [Text box]**

**Q 10.2: Please detail total (Scope 1+ Scope 2) emissions for your region, in metric tonnes CO<sub>2</sub>e. [Numeric field]**

**Q 10.3: If applicable, please provide a breakdown of your GHG emissions by scope.**

Scopes are a common categorization method.

Scope 1: All direct GHG emissions (with the exception of direct CO2 emissions from biogenic sources).

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

| Total Scope 1 activity in metric tonnes CO2e emitted | Total Scope 2 activity in metric tonnes CO2e emitted |
|--|--|
| [Numeric field]                                      | [Numeric field]                                      |

**Q 10.4: Where it will facilitate a greater understanding of your region’s emissions, please provide a breakdown of these emissions, by end user (buildings, water, waste, transport), economic sector (residential, commercial, industrial, institutional), IPCC sector (stationary combustion, mobile combustion, industrial processes, waste), greenhouse gas (CO2, CH4, N2O, etc) or any other classification system used in your region.**

| End user / Economic sector / IPCC sector / GHG / Other | Emissions (metric tonnes CO2e) |
|--|--------------------------------|
| [Text box]   | [Numeric field]                |

Option to “add another”

**Q 10.5: Please give the total amount of fuel (refers to direct/Scope 1 emissions) consumed in your region during the reporting year.**

| Fuel                         | Amount          | Units   |
|------------------------------|-----------------|---|
| [List of values: Appendix B] | [Numeric field] | [List of values: GWh; MWh; kWh; TJ; GJ; MJ; m <sup>3</sup> ;L; Metric tonnes; Short tons; Therms; Btus] |

Option to “add another”

**Q 10.6: How much electricity, heat, steam, or cooling (refers to indirect/Scope 2 emissions) has been consumed by your region during the reporting year?**

| Type                          | Amount          | Units                               |
|-------------------------------|-----------------|-------------------------------------|
| [List of values: Electricity; | [Numeric field] | [List of values: GWh; MWh; kWh; TJ; |

|                              |  |   |
|------------------------------|--|---|
| Heat; Steam; Cooling; Other] |  | GJ; MJ; m <sup>3</sup> ;L; Metric tonnes; Short tons; Therms; Btus] |
|------------------------------|--|---|

Option to “add another”

**Q 10.7: Please provide a breakdown of fuel use and emissions by source as defined in the Global Protocol for Community-Scale Greenhouse Gas Emissions (GPC) Pilot Version 1.0, (C40 and ICLEI).**

| Emissions Source   | Energy / Fuel Type           | Fuel consumed / Electricity used / Other energy activity measure | Units   | Emissions (metric tonnes CO2e) | Type  |
|--|------------------------------|--|---|--------------------------------|---|
| [List of values: Residential buildings; Commercial/Institutional facilities; Industrial buildings; Energy generation; Energy use in industrial activities; On-Road transportation (cars, LDV, HDV/buses, others); Railways (including urban metro/rail transport systems); Water-borne navigation; Aviation; Off-road; Solid waste disposal; Biological treatment of waste; Incineration and open burning; Wastewater treatment and discharge; Industrial process and product use emissions; AFOLU; Fugitive emissions; Other] | [List of values: Appendix C] | [Numeric field]  | [List of values: GWh; MWh; kWh; TJ; GJ; MJ; m <sup>3</sup> ;L; Metric tonnes; Short tons; Therms ;Btus] | [Numeric field]                | [List of values: Scope 1; Scope 2; Scope 3; Total; Other] |

Option to “add another”

**Q 10.7a: If other, please describe [Text box]**

**Q 10.8: Do you measure Scope 3 emissions? [List of value: Yes, No]**

**Q 10.8a: If yes, please provide more detail about how you measure Scope 3 emissions, including total Scope 3 emissions in metric tonnes CO2e.**

| Source of Scope 3 emissions | Emissions (metric tonnes | Comment |
|-----------------------------|--------------------------|---------|
|-----------------------------|--------------------------|---------|

|            | CO2e)           |            |
|------------|-----------------|------------|
| [Text box] | [Numeric field] | [Text box] |

**Q 10.8b: If no, please explain why not and detail your plans to do so in the future, if any. [Text box]**

## 11. External verification

**Q 11.0: Has the GHG emissions data you are currently reporting been externally verified or audited in part or in whole? [List of values: Yes; No]**

**Q 11.0a: If yes, please provide any other relevant information about the emissions verification process. [Text box]**

This question only applies if you have answered “yes” to question 11.0 and provides an opportunity to describe other relevant information about this verification process.

# Strategy

## Strategy

### 12. GHG Emission Reduction – Regional Government

**Q 12.0: Do you have a GHG emissions reduction target in place for your regional government?**  
 [List of values: Yes; No]

**Q 12.0a: If yes, please provide details of your regional government emissions reduction target.**

| Baseline year                        | Baseline emissions (metric tonnes CO2e) | Percentage reduction target | GHG sources to which the target applies | Target date  | Comment    |
|--------------------------------------|---|-----------------------------|---|--|------------|
| [List of values: 1990 – 2013; Other] | [Numeric field]                         | [Numeric field]             | [Text box]                              | [List of values: 2013-2020; 2025; 2030; 2035; 2040; 2045; 2050; Other] | [Text box] |

Option to “add another”

**Q 12.0b: If no, please explain why you do not have a regional government emissions reduction target.** [Text box]

**Q 12.1: What activities are you undertaking to reduce your emissions from your regional government?**

| Emissions reduction activity | Projected emissions reduction (metric tonnes CO2e) | Action description |
|------------------------------|--|--------------------|
| [List of values: Appendix D] | [Numeric field]                                    | [Text box]         |

Option to “add another”



### 13. GHG Emission Reduction – Region

**Q 13.0: Do you have a regional (also known as region-wide) GHG emissions reduction target in place for your region? [List of values: Yes; No]**

**Q 13.0a: If yes, please provide details of your region-wide emissions reduction target.**

| Baseline year                        | Baseline emissions (metric tonnes CO2e) | Percentage reduction target | GHG sources to which the target applies | Target date  | Comment    |
|--------------------------------------|---|-----------------------------|---|--|------------|
| [List of values: 1990 – 2013; Other] | [Numeric field]                         | [Numeric field]             | [Text box]                              | [List of values: 2013 – 2020; 2025; 2030; 2035; 2040; 2045; Other] | [Text box] |

Option to “add another”

**Q 13.0b: If no, please explain why you do not have a region-wide emissions reduction target. [Text box]**

This question only applies if you have answered “no” to Question 13.0. Please provide your response in the text box provided. This question offers you the opportunity to provide further information about your plans for emissions reduction.

**Q 13.1: What activities are you undertaking to reduce emissions region-wide?**

| Emissions reduction activity | Projected emissions reduction (metric tonnes CO2e) | Action description |
|------------------------------|--|--------------------|
| [List of values: Appendix D] | [Numeric field]                                    | [Text box]         |

Option to “add another”

## 14. Planning

**Q 14.0: Does your region have a renewable energy or electricity target? [List of values: Yes – my region has a renewable ELECTRICITY target; Yes – my region has a renewable ENERGY target; Yes – my region has renewable ENERGY AND ELECTRICITY targets; and, No – my region does not have renewable energy or electricity targets]**

**Q 14.1a: If Yes – my region has a renewable electricity target or Yes – my region has renewable electricity and energy targets, please indicate the energy mix of your electricity at the region-wide scale.**

| Energy source | Percent         |
|---------------|-----------------|
| Coal          | [Numeric field] |
| Gas           | [Numeric field] |
| Oil           | [Numeric field] |
| Nuclear       | [Numeric field] |
| Hydro         | [Numeric field] |
| Biomass       | [Numeric field] |
| Wind          | [Numeric field] |
| Geothermal    | [Numeric field] |
| Solar         | [Numeric field] |

**Q 14.1b: If Yes – my region has a renewable electricity target or Yes – my region has renewable electricity and energy targets, please provide details of your renewable electricity targets and how the region plans to meet those targets.**

| Scale  | Total installed capacity of renewable electricity (in MW) | Proportion of total electricity from renewable energy sources | Target Date  | Plans to meet target (include details on types of energy) |
|--|---|---|--|---|
| [List of values: Regional Government; Region wide] | [Numeric field]   | %   | [List of values: 2013 – 2020; 2025; 2030; 2035; 2040; 2045; Other] | [Text box]  |

Option to “add another”

**Q 14.1c: If Yes – my region has a renewable energy target or Yes – my region has renewable electricity and energy targets, please provide details of your renewable energy targets and how the region plans to meet those targets.**

| Scale  | Total installed capacity of renewable energy (in MW) | Proportion of total energy from renewable energy sources | Target Date   | Plans to meet target (include details on types of energy) |
|--|--|--|---|---|
| [List of values: Regional Government; Region wide] | [Numeric field]                                      | %  | [List of values: 2013 – 2020;2025;2030; 2035;2040;2045 Other] | [Text box]  |

Add another

**Q 14.2: If no, please explain why you do not have a renewable energy target or a renewable electricity target and any plans to introduce one in the future. [Text box]**

**Q 14.3: List any climate change-related projects for which you hope to attract private sector involvement. [Text box]**

**Q 14.4: Does your region incorporate desired GHG reductions into the master planning for the region? [List of values: Yes; No]**

**Q 14.4a: If yes, please describe the ways that the master plan is designed to reduce GHG emissions. [Text box]**

## 15. Water Supply Risks

**Q 15.0: Do you foresee substantive risks to your region's water supply in the short, medium or long term? [List of values: Yes; No]**

**Q 15.0a: If yes, please identify the risks to your region's water supply as well as the timescale.**

| Risks  | Timescale  | Level of risk   | Risk Description |
|--|--|---|------------------|
| [List of values: Increased water stress or scarcity; Declining water quality; Inadequate or aging infrastructure; Flooding; Higher water prices; Regulatory; Other ] | [List of values: Current; Short-term; Medium-term; Long-term; Other] | [List of values: Extremely serious, Serious, Less Serious, Other] | [Text box]       |

Option to "add another"

**Q 15.0b: If no, please explain why you do not consider your region to be exposed to any substantive water-related risk. [Text box]**

**Q 15.1: If yes to 15.0, please describe the actions you are taking to reduce the risks to your region's water supply.**

| Risks  | Adaptation Action   | Action Description |
|--|---|--------------------|
| [List of values: Increased water stress or scarcity; Declining water quality; Inadequate or aging infrastructure; Flooding; Higher water prices; Regulatory; Other ] | [List of values: Conservation awareness and education; Conservation incentives; Water use restrictions; Efficiency regulations or standards; Water metering; Municipal water efficiency retrofits; Diversifying water supply (including | [Text box]         |

|  |   |  |
|--|---|--|
|  | new sources);<br><br>Investment in existing water supply infrastructure ;<br><br>Use of non-potable water outside;<br><br>Use of non-potable water indoors (within building);<br><br>Watershed preservation;<br><br>Stormwater management (natural or man made infrastructure);<br><br>Other] |  |
|--|---|--|

## 16. Opportunities

**Q 16.0: Does climate change provide any economic opportunities for your region? [List of values: Yes; No; Don't know]**

**Q 16.0a: If yes or don't know, please indicate the opportunities and describe how the region is positioning itself to take advantage of them.**

| Economic opportunity  | Describe how the region is maximizing this opportunity |
|---|--|
| [List of values: Development of new business industries (e.g. clean tech); Additional funding opportunities; Improved efficiency of operations; Increased energy security; Increased attention to other environmental concerns; Increased infrastructure investment; Other] | [Text box]   |

**Q 16.0b: If no, why not? [Text box]**

**Thank you for completing the CDP states and regions 2014 information request. Further information is below.**

# Important information

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 regions. 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 regions 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.

## **Scoring of responses**

Responses to CDP states and regions 2014 will not be scored publicly by CDP or its partners. CDP and other organizations write and publish reports that include an overview of CDP responses. CDP will consider publicly scoring responses (for example, for the comprehensiveness of the organization's disclosure and on performance factors) in the future.

## **What if a region wishes to change or update a response?**

After you submit your response on the Online Platform, you will not be able to access it any more. CDP will not be able to edit any responses. Please get in touch should you need to change your response after submission or require a PDF of your responses.

## **How can a region confirm its participation?**

If you received this document in hard copy without a link to the Online Platform, please email [regions@cdp.net](mailto:regions@cdp.net) to confirm your participation.

## **What is the legal status of CDP?**

CDP is a UK Registered Charity no. 1122330 and a company limited by guarantee registered in England no. 05013650. In the US, CDP is a special project of Rockefeller Philanthropy Advisors with 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.

# Appendix A

## Appendix A: Actions to reduce vulnerability

Additional reservoirs and wells for water storage  
Air quality initiatives  
Awareness campaign/education to reduce water use  
Biodiversity monitoring  
Community engagement/education  
Cool pavement  
Cooling centers, pools, water parks/plazas  
Cooling systems for critical infrastructure  
Crisis management including warning and evacuation systems  
Crisis planning and practice exercises  
Disease prevention measures  
Diversification of water supply  
Diversifying power/energy supply  
Economic diversification measures  
Flood defences – development and operation & storage  
Flood mapping  
Green roofs/walls  
Heat mapping and thermal imaging  
Improve water supply distribution method  
Landslide risk mapping  
Maintenance/repair – leaking infrastructure  
Optimizing delivery fuel mix of water supply  
Projects and policies targeted at those most vulnerable  
Promoting and incentivizing water efficiency  
Promoting low flow technologies  
Real time risk monitoring  
Resilience and resistance measures for buildings  
Restrict development in at risk areas  
Retrofit of existing buildings  
Sea level rise modelling  
Shading in public spaces, markets  
Soil retention strategies  
Storm water capture systems  
Tree planting and/or creation of green space  
Water butts/rainwater capture  
Water efficient equipment and appliances  
Water extraction protection  
Water smart metering  
Water use audits  
Water use restrictions and standards  
White roofs  
Xeriscapes – low water landscaping design  
Other



# Appendix B

## Appendix B: Fuel Type

|                                     |                              |
|-------------------------------------|------------------------------|
| Asphalt/bitumen                     | Naptha                       |
| Biodiesels                          | Natural gas                  |
| Biogas                              | Oil shale/tar sands          |
| Biogasoline                         | Orimulsion                   |
| Blast furnace gas                   | Oxygen steel furnace gas     |
| Butane                              | Patent fuel                  |
| Charcoal                            | Peat                         |
| Coal (Anthracite)                   | Pitch                        |
| Coal (Bituminous or Black coal)     | Propane                      |
| Coal (Brown coal briquettes or BKB) | Refinery feedstocks          |
| Coal (Lignite or Brown coal)        | Refinery gas                 |
| Coal (sub-bituminous)               | Refuse-derived fuel          |
| Coal (unknown)                      | Residual fuel oil            |
| Coke breeze                         | Shale oil                    |
| Coke oven coke                      | Sludge gas                   |
| Coking coal                         | Sulphite lyes (Black liquor) |
| Lignite coke                        | Tar                          |
| Metallurgical coke                  | Town gas or city gas         |
| Petroleum coke                      | Turpentine                   |
| Semi-coke                           | Vegetable oils               |
| Compressed Natural Gas (CNG)        | Waste (municipal)            |
| Crude oil                           | Waste oil                    |
| Diesel/Gas oil                      | Waste plastics               |
| Distillate fuel oil No 1            | Waste-tire derived fuels     |
| Distillate fuel oil No 2            | Waxes                        |
| Distillate fuel oil No 3            | White spirit SBP             |
| Distillate fuel oil No 4            | Wood or wood waste           |
| Distillate fuel oil No 5            | Other                        |
| Distillate fuel oil No 6            |                              |
| E85                                 |                              |
| Ethane                              |                              |
| Ethanol                             |                              |
| Gas works gas                       |                              |
| Gasohol                             |                              |
| Aviation gasoline                   |                              |
| Jet gasoline                        |                              |
| Motor gasoline (petrol)             |                              |
| Jet kerosene                        |                              |
| Kerosene                            |                              |
| Landfill gas                        |                              |
| Liquefied Natural Gas (LNG)         |                              |
| Liquefied Petroleum Gas (LPG)       |                              |
| Lubricants                          |                              |
| Methane                             |                              |

# Appendix C

## Appendix C: Fuel or Energy Type

|                                     |                               |
|-------------------------------------|-------------------------------|
| Asphalt/bitumen                     | Liquefied Petroleum Gas (LPG) |
| Biodiesels                          | Lubricants                    |
| Biogas                              | Methane                       |
| Biogasoline                         | Naptha                        |
| Blast furnace gas                   | Natural gas                   |
| Butane                              | Oil shale/tar sands           |
| Charcoal                            | Orimulsion                    |
| Coal (Anthracite)                   | Oxygen steel furnace gas      |
| Coal (Bituminous or Black coal)     | Patent fuel                   |
| Coal (Brown coal briquettes or BKB) | Peat                          |
| Coal (Lignite or Brown coal)        | Pitch                         |
| Coal (sub-bituminous)               | Propane                       |
| Coal (unknown)                      | Refinery feedstocks           |
| Coke breeze                         | Refinery gas                  |
| Coke oven coke                      | Refuse-derived fuel           |
| Coking coal                         | Residual fuel oil             |
| Lignite coke                        | Shale oil                     |
| Metallurgical coke                  | Sludge gas                    |
| Petroleum coke                      | Steam                         |
| Semi-coke                           | Sulphite lyes (Black liquor)  |
| Compressed Natural Gas (CNG)        | Tar                           |
| Cooling                             | Town gas or city gas          |
| Crude oil                           | Turpentine                    |
| Diesel/Gas oil                      | Vegetable oils                |
| Distillate fuel oil No 1            | Waste (municipal)             |
| Distillate fuel oil No 2            | Waste oil                     |
| Distillate fuel oil No 3            | Waste plastics                |
| Distillate fuel oil No 4            | Waste-tire derived fuels      |
| Distillate fuel oil No 5            | Waxes                         |
| Distillate fuel oil No 6            | White spirit SBP              |
| E85                                 | Wood or wood waste            |
| Electricity                         | Other                         |
| Ethane                              |                               |
| Ethanol                             |                               |
| Gas works gas                       |                               |
| Gasohol                             |                               |
| Aviation gasoline                   |                               |
| Jet gasoline                        |                               |
| Motor gasoline (petrol)             |                               |
| Heat                                |                               |
| Jet kerosene                        |                               |
| Kerosene                            |                               |
| Landfill gas                        |                               |
| Liquefied Natural Gas (LNG)         |                               |

# Appendix D

## Appendix D: Emissions reduction activities

- Education > Climate change-focused curriculum
- Energy Demand in Buildings > Energy efficiency/retrofit measures
- Energy Demand in Buildings > Building performance rating and reporting
- Energy Demand in Buildings > Switching to low-carbon fuels
- Energy Demand in Buildings > Renewable on-site energy generation
- Energy Demand in Buildings > Carbon emissions reduction from industry
- Energy Demand in Buildings > Building codes and standards
- Energy Demand in Buildings > Financing mechanisms for retrofit
- 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 > Instruments to fund low carbon projects
- Finance > ESCO Financing
- Finance > Adaptation infrastructure finance
- Finance > Carbon finance capacity building
- Finance > Carbon finance/markets
- Finance > Green industry development
- Food > Promotion of climate smart eating habits
- Outdoor Lighting > LED / CFL / other luminaire technologies
- Outdoor Lighting > Smart lighting
- Outdoor Lighting > Solar powered lights
- Public Procurement > Encourage sustainable food production and consumption
- Public Procurement > Encourage low carbon products
- Transport > Improve fuel economy and reduce CO2 from ferries
- Transport > Improve rail, metro, and tram infrastructure services and operations
- Transport > Improve fuel economy and reduce CO2 from bus and/or light rail
- Transport > Improve bus infrastructure, services, and operations
- Transport > Infrastructure for non-motorized transport
- Transport > Awareness and education for non-motorized transport
- Transport > Improve fuel economy and reduce CO2 from aviation
- Transport > Transportation demand management
- Transport > Improve fuel economy and reduce CO2 from motorized vehicles
- Transport > Improve the efficiency of freight systems
- Transport > Improve fuel economy and reduce CO2 from trucks
- Transport > Improve the operations of shipping ports
- Transport > Improve the accessibility of public transit systems
- Transport > SMART public transport
- Urban Land Use > Compact cities
- Urban Land Use > Transit oriented development
- Urban Land Use > Greenspace and/or bio-diversity preservation and expansion
- Urban Land Use > Brownfield redevelopment programs
- Urban Land Use > Eco-district development strategy
- Urban Land Use > Low carbon industrial zones

Urban Land Use > Urban agriculture  
Urban Land Use > Limiting urban sprawl  
Waste > Waste prevention policies and programs  
Waste > Recycling or composting collections and/or facilities  
Waste > Integrated waste management  
Waste > Landfill management  
Waste > Improve the efficiency of waste collection  
Waste > Improve the efficiency of long-haul transport  
Water > Water recycling and reclamation  
Water > Water metering and billing  
Water > Methane recovery for reuse  
Water > Wastewater to energy initiatives  
Other