

How to report to the Global Covenant of Mayors (GCoM)

a visual guide for the CDP-ICLEI Unified Reporting System





This visual guide supports the requirements for GCoM cities as highlighted in the <u>Common</u> <u>Reporting Framework (CRF)</u> and the accompanying <u>Guidance Note</u>.

This guide is designed to be used alongside the <u>*How to guidance*</u> for cities reporting to GCoM via the CDP-ICLEI Unified Reporting System.

Please see here for the *Frequently Asked Questions for GCoM cities*.

A note on the language used in these documents – *shall* indicates a mandatory requirement and *should* indicates a requirement where data is available.





ADAPTATION REQUIREMENTS



GCoM ADAPTATION BADGE

Badges	Inventory/assessment bars (within 2 years)	Target/goal bars (within 2 years)	Plan bars (within 3 years)
Adaptation badge	Assessment	Goal	Plan
	Climate Risk & Vulnerability Assessment submitted and validated for meeting the GCoM requirements	Climate change adaptation goal(s) set and validated for meeting the GCoM	Separate or integrated climate action plan covering climate change adaptation (following GCoM framework)
Badge lights up as soon as the first step is		requirements	submitted and validated for meeting the GCoM
accomplished			requirements

For newly committed cities:

- Years 0 and 1: no requirements
- Year 2: submission of Risk & Vulnerability Assessment, reporting of Climate Hazards and Adaptation Goals
- Year 3: submission and reporting of a Climate Adaptation Plan
- Year 4: monitoring period no requirements
- Year 5: completion of monitoring report

Once a city reaches compliance, a monitoring report on the implementation progress **shall** be completed every two years in the CDP questionnaire.



CLIMATE RISK AND VULNERABILITY ASSESSMENT

HOW TO REACH GCoM COMPLIANCE

Step 1: Attach a fully compliant Climate Risk and Vulnerability Assessment (CRVA)

Step 2: Report Information regarding the CRVA on the platform **Step 3:** Report the most significant hazards on the platform

Step 4: Reporting adaptive capacity

Mandatory requirements we look for within the assessment:

- Primary methodology and description
- Primary author(s) of assessment
- Boundary of assessment (including necessary justifications)
- Areas/sectors covered by the assessment

Recommended: Whether it identifies vulnerable populations

- Glossary of key terms and definitions
- Terminologies and definitions consistent with the IPCC
 5th Assessment Report/National requirements
- Data sources

(does not affect compliance)

Step 1: Attach a fully compliant Climate Risk and Vulnerability Assessment (CRVA)

2.0 Has a climate change risk and vulnerability assessment been undertaken for your city?

Change from 2020 No change

Connection to other frameworks

Global Covenant of Mayors

Question 2.0 is required for the Global Covenant of Mayors. For more detailed information on the reporting requirements for this question, please refer to Chapter 4 *Climate Risk and Vulnerability Assessment* of the <u>GCoM Guidance note</u>.

WWF

This question is required for the assessment of your response for the WWF One Planet City Challenge.

Response Options

Select one of the following options:

- Yes
- In progress
- Intending to undertake in the next 2 years
- Not intending to undertake
- Do not know



CLIMATE RISK AND VULNERABILITY ASSESSMENT

HOW TO REACH GCoM COMPLIANCE

Step 1: Attach a fully compliant Climate Risk and Vulnerability Assessment (CRVA)

Step 2: Report Information regarding the CRVA on the platform

Step 3: Report the most significant hazards on the platform

Step 4: Reporting adaptive capacity

Mandatory requirements necessary to report on the questionnaire (from the attachment):

- Publication title and Web link to publication
- Primary methodology and description
- Primary author(s) of assessment
- Boundary of assessment (including necessary justifications)
- Areas/sectors covered by the assessment
- Whether it identifies vulnerable populations (optional, recommended)

Step 2: Report Information regarding the CRVA

2.0b Please attach and provide details on your climate change risk and vulnerability assessment. Please provide details on the boundary of your assessment, and where this differs from your city's boundary, please provide an explanation.

Publication title and attach document	Web link		of publication or approval local government	Boundary of assessment relative to city boundary (reported in 0.1)	Explanation of boundary choice where the assessment boundary differs from the city boundary	Primary autho
Text field	Text field	Nun	eric field • The title of t	 Select from: Same – covers entire city and nothing else Smaller – covers only part of the city Larger – covers the whole city and adjoining areas Partial – Covers part of the city and adjoining areas 	Text field	Select from: Dedicated Relevant c Consultan Internatior Communit Regional / provincial gov National / government Other, plea
			The attache	attachment must be v d or linked document pility assessment. No	must contain risk	

Step 2: Report Information regarding the CRVA

2.0b Please attach and provide details on your climate change risk and vulnerability assessment. Please provide details on the boundary of your assessment, and where this differs from your city's boundary, please provide an explanation.

Publication title and attach Wel document		Web link Year of publication or approval from local government		Boundary of assessment relative to city boundary (reported in 0.1)	Explanation of boundary choice where the assessment boundary differs from the city boundary	Primary	authoi
Text f	field	Text field	Numeric field	Select from: Same – covers entire city and nothing else Smaller – covers only part	Text field	Select f • Ded • Rele • Con	icated vant c
•	,	s that the bounda or 'larger" as city	ry is	of the city • Larger – covers the whole city and adjoining areas • Partial – Covers part of the city and adjoining areas		 Reg provin Nat govern 	imunit ional / cial gov onal /
•	than city bou	ment boundary s Indary a valid must be provided					

Step 2: Report Information regarding the CRVA

2.0b Please attach and provide details on your climate change risk and vulnerability assessment. Please provide details on the boundary of your assessment, and where this differs from your city's boundary, please provide an explanation.

essment undary	Explanation of boundary choic where the assessment boundary differs from the city boundary	Primary author of assessment	Does the assessment identify vulnerable populations?	Areas/Sectors covered by the risk and vulnerability assessment	Please explain
rs entire city ³ /ers only part ers the whole 1g areas ers part of the 1g areas	Text field	Select from: • Dedicated city team • Relevant city department • Consultant • International organization • Community group • Regional / state / provincial government • National / central government • Other, please specify	Select from: • Yes • No	Select all that apply: • Energy • Water Supply and Sanitation • Transport • Food and agriculture • Waste Management • Information & Communications Technology • Environment, Biodiversity and Forestry • Industrial • Commercial • Residential • Education • Public Health • Community and Culture • Law & Order	Text field



CLIMATE RISK AND VULNERABILITY ASSESSMENT

HOW TO REACH GCoM COMPLIANCE

Step 1: Attach a fully compliant Climate Risk and Vulnerability Assessment (CRVA)

Step 2: Report Information regarding the CRVA on the platform **Step 3:** Report the most significant hazards on the platform

Step 4: Reporting adaptive capacity

For each hazard, the city <u>shall</u> report:

- Current probability of the hazard
- Current consequence of the hazard
- Future change in frequency
- Future change in intensity
- When the city expects to experience those changes

- Most relevant sectors/assets/services/affected and magnitude of expected impacts
- Description of impacts experienced so far (for past hazards) and impacts expected in the future (for future hazards)

Recommended: Identify vulnerable populations

(does not affect compliance)



CLIMATE HAZARD REPORTING EXAMPLE ANSWER

Step 3 Report the most significant hazards

2.1 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 most relevant assets or services that are affected by the climate hazard and provide a description of the impact.

	Did this hazard significantly impact your city before 2020?	Current p	probability of hazard	Current ma	Current magnitude of hazard		pact of hazard overall	Most relevant assets/services affected overall	
Select from <u>Appendix E</u>	Select from: • Yes • No • Do not know	 Media Media Low Do no 	gh edium High edium High edium Low edium Low e not know e Do not		 High Medium High Medium Low Low Do not know Does not currently impact the city 		that apply: uating socio-economic conditions ased incidence and prevalence of disease ess ased demand for public services ased demand for healthcare services ased risk to already vulnerable populations ased conflict and/or crime ased resource demand	Select all that apply: • Energy • Water supply & sanitation • Transport • Food & agriculture • Waste management • Information & communications technology • Environment, biodiversity, forestry • Industrial	
Please identify which vulnerable populations are affected	Future change in frequency		Future change in intensity		Future expected magnitude of h	azard	When do you first expect to experience those future changes in frequency and intensity?	Please describe the impacts experienced so far, and how you expect the hazard to impact in the future	
Select all that apply: • Women & girls • Children & youth • Elderly • Indigenous population • Marginalized groups • Persons with disabilities • Persons with disabilities • Persons with chronic diseases • Low-income households • Unemployed persons • Persons living in sub-standard housing • Other, please specify	Select from: Increasing Decreasing None Do not know Not expected to happen in the future	Increasing		future	Select from: • High • Medium High • Medium • Medium Low • Low • Do not know		Select from: Immediately Short-term (by 2025) Medium-term (2026-2050) Long-term (after 2050)	Text field	



CLIMATE RISK AND VULNERABILITY ASSESSMENT

HOW TO REACH GCoM COMPLIANCE

Step 1: Attach a fully compliant Climate Risk and Vulnerability Assessment (CRVA)	Step 2: Report Information regarding the CRVA	Step 3: Report the most significant hazards	Step 4: Reporting adaptive capacity	
---	--	--	--	--

Factors that affect ability to adapt	Indicate if this factor either supports or challenges the al adapt	bility to Level of degree to which factor challenges/supports the adaptive capacity of your city	Please describe how the factor supports or challenges the adaptive capacity of your city
Select from: • Access to basic services • Access to healthcare • Access to education • Public health • Cost of living	Select from: • Challenges • Supports	Select from: If Challenges: • Significantly challenges • Moderately challenges • Somewhat challenges If Supports:	Text field
 Housing Poverty Inequality Unemployment Underemployment Migration Safety and security 		 Significantly supports Moderately supports Somewhat supports 	



ADAPTATION GOAL(S)

- Local Governments <u>shall</u> set and report adaptation goals within two years of committing to the GCoM
- Adaptation goals <u>shall</u> be formulated based on the results of the risk and vulnerability assessment
- The baseline year and target year for each goal **shall** be identified
- Cities are encouraged to fill out the recommended elements as well
- The goals identified in the assessment <u>shall</u> be reported in the CDP platform in order to ensure compliance:

In addition, the local government should report how they are planning to track progress towards the achievement of the goal and the monitoring plans put in place (metrics/indicators)

Adaptation Goals

3.3 Please describe the main goals of your city's adaptation efforts and the metrics/KPIs for each goal.

	CI mate hazards that adaptation goa ac dresses	Target year of goal	-		Select the initiatives related to this adaptation goal that your city has committed to	Comment
Text field	Select all that apply from <u>Appendix E</u>	Numeric field		Select from: • Yes • Yes, and it exceeds its scale or requirements • No • Do not know	 Select all that apply: Global Covenant of Mayors for Climate & Energy Durban Adaptation Charter Mexico City Pact UNISDR, Making Cities Resilient Campaign 100 Resilient Cities 	Text field

• The target year must be no smaller than reporting

year (beyond 2021)



- Local Governments **shall publish** a city-wide adaptation plan **within 3 years** of committing to the GCoM
- It can be presented as a standalone document, or together with the mitigation plan (and energy access plan in the future) within a Climate Action Plan covering all three pillars
- Local governments are allowed to develop joint Climate Adaptation Plans
- If the city has a **compliant plan**, then only a **monitoring report is required every 2 years**
- The mandatory requirements are the same for all Climate Plans:

Mandatory information which shall be provided in the Plan:

- Local government(s) which formally adopted the plan and date of adoption
- Lead author / Coordination team
- Description of stakeholder engagement process
- Adaptation actions and description (aligned with identified hazards)
- Adaptation goals (aligned with the identified risks)
- Synergies, trade-offs and co-benefits of adaptation actions

Local Governments shall publish a city-wide adaptation plan within 3 years of committing to the GCoM

3.2 Does your city council, or similar authority, have a published plan that addresses climate change adaptation and/or resilience?

Change from 2020

No change

Connection to other frameworks

Global Covenant of Mayors

Question 3.2 is required for the Global Covenant of Mayors. For more detailed information on the reporting requirements for this question, please refer to Chapter 7 Developing a Climate Action Plan(s) of the GCoM Guidance note.

WWF

This question is required for the assessment of your response for the WWF One Planet City Challenge.

Response Options

Select one of the following options:

Yes

In progress

- Intending to undertake in the next 2 years
- Not intending to undertake
- Do not know



Information about the adaptation plan must be reported in the CDP questionnaire

- At least all the **mandatory** elements must be reported
- Question 3.2a

document t	S :ctors/areas covered by plan t addresses climate change a laptation	Climate hazards factored into plan that addresses climate change adaptation	Year of adoption from local government	Boundary of plan relative to city boundary (reported in 0.1)	If the city boundary is different from the plan boundary, please explain why	Stage of implementation
function	Select all that apply: Energy Transport (mobility) Building and Infrastructure Industry ICT (Information and Communication Technology) Spatial Planning	Select all that apply from: <u>Appendix E</u>	Numeric field	 Select from: Same – covers entire city and nothing else Smaller – covers only part of the city Larger – covers the whole city and adjoining areas Partial – Covers part of the city 	Text field	Select from: Plan in development Plan developed but not implemented Plan in implementation Implementation complete Monitoring and evaluation in progress

- Ensure to attach or link action plan document, not the RVA
- It should be a general adaptation plan , not a plan for specific sectors, such as flood or water management



Information about the adaptation plan must be reported in the CDP questionnaire

At least all the **mandatory** elements must be reported

Publication title and attach document	Weblink	Sectors/areas covered by plan that addresses climate change adaptation	Climate hazards factored into plan that addresses climate change adaptation	·	Boundary of plan relative to city boundary (reported in 0.1)	If the city boundary is different from the plan boundary, please explain why	Stage of implementation
Text field and attachment function	Text field	Select all that apply: • Energy • Transport (mobility) • Building and Infrastructure • Industry • ICT (Information and Communication Technology) • Spatial Planning	Select all that apply from: <u>Appendix E</u>	Numeric field	Select from: • Same – covers entire city and nothing else • Smaller – covers only part of the city • Larger – covers the whole city and adjoining areas • Partial – Covers part of the city	Text field	Select from: • Plan in development • Plan developed but not implemented • Plan in implementation • Implementation complete • Monitoring and evaluation improgress

Please make sure the adaptation year is no earlier
than 2011



Information about the adaptation plan must be reported in the CDP questionnaire

At least all the **mandatory** elements must be reported

Publication title and attach document	Weblink	Sectors/areas covered by plan that addresses climate change adaptation	Climate hazards factored into plan that addresses climate change adaptation	Year of adoption from local government	Boundary of plan relative to city boundary (reported in 0.1)	If the city boundary is different from the plan boundary, please explain why	Sta	ge of implementation
Text field and attachment function	Text field	Select all that apply: • Energy • Transport (mobility) • Building and Infrastructure • Industry • ICT (Information and Communication Technology) • Spatial Planning	Select all that apply from: <u>Appendix E</u>	Numeric field	 Select from: Same – covers entire city and nothing else Smaller – covers only part of the city Larger – covers the whole city and adjoining areas Partial – Covers part of the city 	Text field	• in •	ect from: Plan in development Plan developed but not plemented Plan in implementation Implementation complete Monitoring and evaluation in ogress

Please make justification
 when the boundary is
 different than the city
 boundary



Information about the adaptation plan must be reported in the CDP questionnaire

At least all the **mandatory** elements must be reported

Type of plan	Has your local government assessed the synergies, trade-offs, and co-benefits, if any, of the main mitigation and adaptation actions you identified?	Describe the synergies, trade-offs, and co- benefits of this interaction	Primary author of plan	engagement process	Update/revision process in place for the A daptation Plan F or GCC cities only
Select from: • Standalone • Integrated mitigation / adaptation • Addressed in general city master plan • Addressed in city sector plan • Other, please specify	Select from: • Yes • In Progress • Intending to undertake in the next 2 years • Not intending to undertake • Don't know	Text field	Select from: Dedicated city team Relevant city department; Consultant International organization Community group Regional / state / provincial government National / central government Other, please specify	Text field	Select from: • Formal schedule for update • No formal schedule for update • Not known



Change from 2019

ADAPTATION ACTIONS

The adaptation actions set in the plan must be aligned with the hazards identified in the CRVA

- The adaptation actions must be reported in the CDP platform to ensure compliance
- At least all the **mandatory** elements must be reported
- Cities are encouraged to fill out the recommended elements as well (which contribute to the CDP score)

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

Climate hazards	Action	ction title	Status of action	leans of implementation	Co-benefit area	Sectors/areas adaptation action applies to	Action description and implementation progress
Drop-down populated with selections from 2.1 column 1	Select from <u>Appendix B</u>	lext field	 Scoping Pre-feasibility/impact assessment study Pre-implementation Implementation 	 elect all that apply: Education Capacity building and training activities Awareness raising program or campaign Stakeholder engagement Infrastructure development Assessment and evaluation 		Select all that apply: • Energy • Transport (Mobility) • Building and Infrastructure • Industry • ICT (Information and Communication Technology) • Spatial Planning • Agriculture and Forestry	Text field

MITIGATION REQUIREMENTS



GCoM MITIGATION BADGE

Badges	Inventory/assessment bars (within 2 years)	Target/goal bars (within 2 years)	Plan bars (within 3 years)
Mitigation badge	GHG baseline emissions inventory submitted and	GHG emissions reduction/low emission development target	Plan Separate or integrated climate action plan covering
Badge lights up as soon as the first step is accomplished	validated (Including all mandatory criteria) for meeting the GCoM requirements	set and validated for meeting the GCoM requirements	climate change mitigation (following GCoM framework) submitted and validated for meeting the GCoM requirements

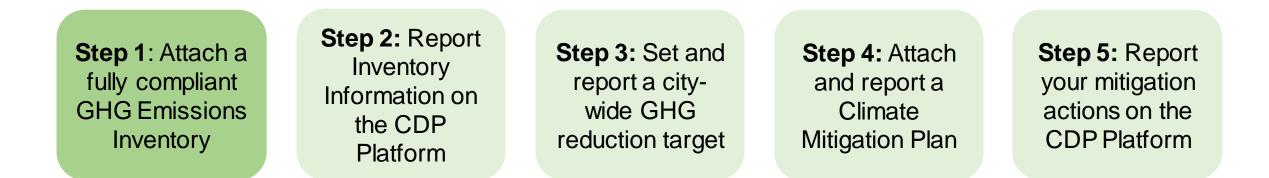


For newly committed cities:

- Years 0 and 1: no requirements
- Year 2: submission of GHG emissions inventory and reporting a GHG reduction target
- Year 3: submission and reporting of a Climate Mitigation Plan
- Year 4: monitoring period no requirements
- Year 5: completion of monitoring report

Once a city reaches compliance, a monitoring report on the implementation progress **shall** be completed every two years in the CDP questionnaire.





Inventory Requirements:

- GHG emissions inventories can be in any format formally recognized.
- Boundaries **shall** be clearly defined:
 - 1. Geographic boundary must be aligned with city boundary
 - 2. Inventory accounting year must be within 2 years of the current year
 - 3. Time period for the inventory 12 consecutive months
- Inventories shall be updated on a regular basis every two years minimum
- GHG emissions **shall** be reported in metric tonnes of CO₂ equivalent

Attach a fully compliant GHG Emissions Inventory

4.0 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.

Question 4.0 is required for the Global Covenant of Mayors. For more detailed information on the reporting requirements for this question, please refer to Chapter 3 Greenhouse Gas Emissions Inventories of the GCoM Guidance note.

Response Options Select one of the following options:	
 Yes In progress Intending to undertake in the next 2 years Not intending to undertake 	
4.5 Please attach your city-wide inventory in Exc	el or other spreadsheet format and provide additional details on the inventory calculation methods in the table below.

If you have an inventory in the format of the GPC, please attach it below. If you are using the ClearPath tool, please attach both extracts in the table below. If your inventory is not in the format of the GPC, you can also attach it below.

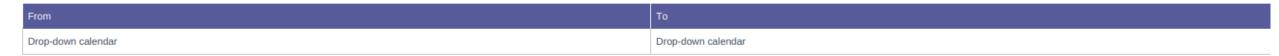
Question dependencies

This question only appears if you select "Yes" in response to 4.0.

Attach a fully compliant GHG Emissions Inventory

4.1 Please state the dates of the accounting year or 12-month period for which you are reporting your latest city-wide GHG emissions inventory.

Response Options Please complete the following table:



the accounting year should within the last four years and shall cover 12 consecutive months

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

Question dependencies

This question only appears if you select "Yes" or "In Progress" in response to 4.0.

Change from 2019

No change

Connection to other frameworks

Global Covenant of Mayors

Question 4.2 is required for the Global Covenant of Mayors. For more detailed information on the reporting requirements for this question, please refer to Section 3.2 Defining the inventory boundary of the GCoM Guidance note.

Response Options

Please complete the following table:

Во	indary of inventory relative to city boundary (reported in 0.	1)		Explanation of boundary choice where the inventory boundary differs from the city boundary (include inventory boundary, GDP and population)				
	ect from: Same - covers entire city and nothing else		Text field	Text field				
	Smaller - covers only part of the city Larger - covers the whole city and adjoining areas							
	Partial - covers part of the city and adjoining areas							

- A boundary size has been provided. This can be smaller, the same, bigger than city boundary.
- If boundary different, is an explanation given



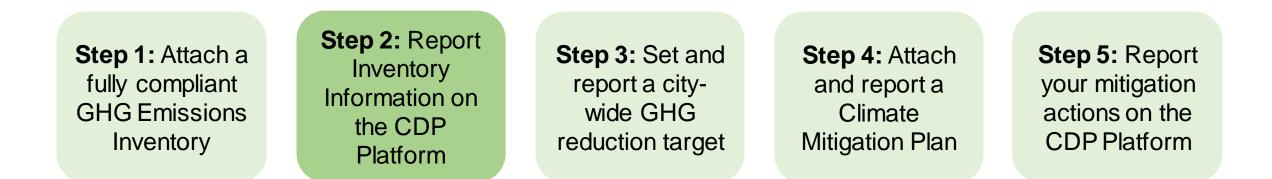
Cities shall report emissions on three mandatory sectors:

- C Stationary energy (+ energy generation)
- **G** Transportation
- 🗘 Waste
 - All sectors and corresponding sub-sectors
 - Distinction between direct and indirect emissions (scopes)
 - Activity data
 - Emissions factors
 - Mandatory gases (CO₂, CH₄ and N₂O),
 - Methodologies
 - Data sources
 - Notation keys for any exceptions

Inventories **shall** be updated every two years after the submission of the Climate Action Plan(s)

Emissions from energy generation activities shall be reported **separately** from the GHG emissions inventory total in order to avoid double counting





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

Response Options Select one of the following options:

Yes

- In progress
- Intending to undertake in the next 2 years
- Not intending to undertake

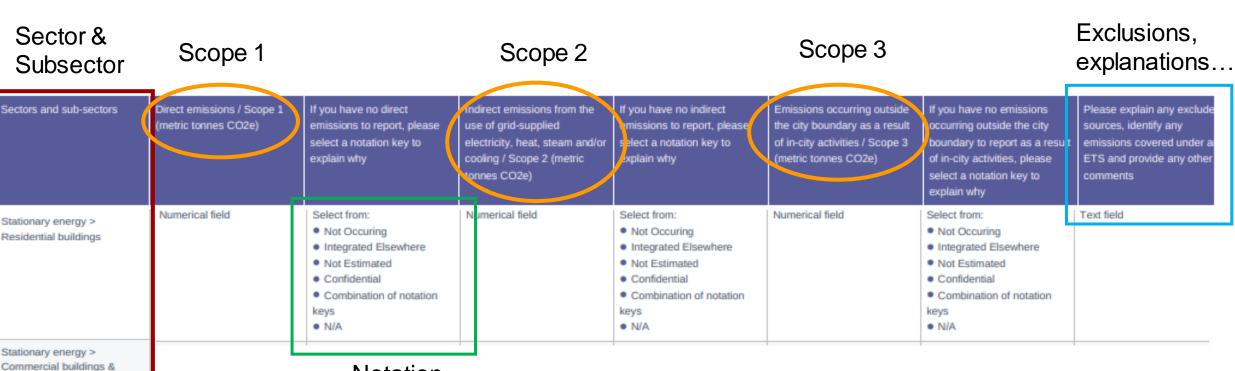




Format		Emissions factors	Global Warming Potential				
Emissions inventory format	Document title and attachment	Emissions factors used	Global Warming Potential (select relevant IPCC Assessment Report)	Please select if these additional sectors are included in the inventory	Population in inventory year	Overall Level of confidence	Comment on level of confidence
Select from: GPC format: City Inventory Reporting and Information System (CIRIS) GPC Reporting tool GPC format: ClearPath (ICLEI) Custom or older GPC format SCATTER This inventory is in a format other than the GPC	Text Field and attachment unction	Select from: • IPCC • LCA • Other	Select from: IPCC 2nd AR (1995) IPCC 3rd AR (2001) IPCC 4th AR (2007) IPCC 5th AR (2013)	 Industrial process and/or product use Agriculture, forestry or other land use sectors 	Numerical field	Select from: • High • Medium • Low	Text field



GHG INVENTORY RESPONSE OPTIONS



Notation Keys

Total Stationary Energy

Stationary energy > Industrial

Stationary energy > Fugitive

Stationary energy > Agriculture

facilities

emissions



"NO"	An activity or process does not occur or exist within the city.
(Not Occurring)	May also be used for insignificant sources.
" IE "	Emissions for this activity are estimated and presented in another category in the same inventory – it is mandatory to state in which subsector the emissions are included.
(Included Elsewhere)	- This notation key may be used where it is difficult to disaggregate data into multiple subsectors.
"NE" (Not estimated)	GHG emissions occur but have not been estimated or reported – a justification is mandatory. NE is not allowed for mandatory emissions.
" C " (Confidential)	GHG emissions which could lead to the disclosure of confidential information, and as such are not reported publicly.

	Inclu	ided?				
Sectors and sub-sectors	Direct	Indirect	Note	IPCC ref. no.		
	emissions	asions emissions				
Stationary energy						
Residential buildings	ntial buildings Required Required					
Commercial building and facilities	Required	Required	This covers emissions from fuel combustion and use of grid-supplied energy by buildings, equipment and facilities within city boundary (including transportation	1A4a		
Institutional buildings and facilities	Required	Required	and waste facilities), as well as fugitive emissions from production, transformation and distribution of fuels.	1A4a		
Industrial buildings and facilities	Required	Required	Emissions from sources covered by a regional or national emissions trading system	1A1, 1A2		
Agriculture	Required	Required	should be identified and described. See section 3.6.1 for detailed guidance and	1A4c		
Fugitive emissions	Required		requirements.	1B1, 1B2		
Transportation						
On-road	Required	Required	This covers emissions from fuel combustion and use of grid-supplied energy for all	1A3b		
Rail	Required	Required	modes of transportation activities within city boundary (for waterborne and aviation, cities only need to report journeys fully confined within the city	1A3c		
Waterborne navigation	Required	Required	boundary).	1A3d		
Aviation	Required	Required	On-road and rail travel should additionally be disaggregated by municipal fleet,	1A3a		
Off-road	Required	Required	public transport, private and commercial transport. See section 3.6.2 for detailed guidance and requirements.	1A3e		
Waste						
Solid waste disposal	Required		This covers non-energy related emissions from disposal and treatment of waste	4A		
Biological treatment	nentRequired(incl. was anaerol energy,I open burningRequiredenergy,		(incl. wastewater) generated within the city boundary, as a result of aerobic or anaerobic decomposition of waste, or incineration. Emissions from waste-to-	4B		
Incineration and open burning			energy, where waste/wastewater material is used directly as fuel or converted	4C		
Wastewater treatment and discharge	Required		into a fuel, should captured under the Stationary Energy sector. See section 3.6.3 for detailed guidance and requirements.	4D		

			1							
Energy Generation										
Electricity-only generation	Required		This means disclosure of information on activity and emissions specifically related							
CHP generation	Required		to energy generation within the city boundary or outside the boundary but can be	1A1						
Heat/cold generation	Required		controlled or influenced by the city. It is for information only and not added to the							
Local renewable generation	Optional	Optional	total emissions.							

I.1 RESIDENTIAL BUILDINGS

GPC ref No.	Scope	GHG Emissions Source					Activity data		ty data	unit convert	ter Gas(es)	Emission fac
GPC ref No.		Sub-category	Activity	Description	keys	Amount	Unit	EF unit	Dif	fault C	Override	
1.1.1	1	Emissions from fuel combustion within the city boundary										
1.1.1	1	Residential (1.A.4.b)	Liquefied Petroleum Gas (LPG)	Combustion of LPG in Georgetown		162	TJ				CO2, CH4, N2O	EF_LPG_reside
1.1.2	2	Emissions from grid-supplied energy consumed within the city boundary										
1.1.2	2	Residential (1.A.4.b)	Electricity	Grid supplied electricity		275	GWh	MWh	1,00)E+03	CO2, CH4, N2O	EF_GridElectr
1.1.3	3	Transmission and distribution losses from grid-supplied energy			NE		·					

Enter activity data

I.2 COMMERCIAL AND INSTITUTIONAL BUILDINGS AND FACILITIES (please report emissions from commercial use and institutional use separarely, where possible)

GPC ref No.	6	GHG Emissions Source				on Activity data		Activi	ty data unit co	C ()	Emission fac	
GPC Per No.	Scope	Sub-category	Activity	Description	keys	Amount	Unit	EF unit	Default	Override	Gas(es)	Emission fac
1.2.1	1	Emissions from fuel combustion within the city boundary										
1.2.2	2	Emissions from grid-supplied energy consumed within the city boundary										
1.2.2	2	Commercial	Electricity	Grid supplied electricity		56	GWh	MWh	1,00E+03		CO2, CH4, N2O	EF_GridElectr
1.2.2	2	Institutional	Electricity	Grid supplied electricity	IE		Please select				Please select	Please sele
1.2.2	2	Streetlighting	Electricity	Grid supplied electricity		4	GWh	MWh	1,00E+03		CO2, CH4, N2O	EF_GridElectr
1.2.3	3	Transmission and distribution losses from grid-supplied energy										





Target Requirements:

- Target boundary shall be aligned with the boundary of the Inventory;
- The base year should be the same or later than the country's Nationally Determined Contribution (NDC) base year;
- Reduction targets shall be at least as ambitious as the NDC;
- For all target types, the absolute emissions in the target year(s) shall be reported in metric tonnes CO₂e;
- Unless otherwise specified, the targets reported are unconditional and related to absolute emissions.

5.0 Do you have a GHG emissions reduction target(s) in place at the city-wide level?

Response Options

Select all that apply:

- Base year emissions (absolute) target
- Fixed level target
- Base year intensity target
- Baseline scenario (business as usual) target

No target

5.0a Please provide details of your total city-wide base year emissions reduction (absolute) target(s). In addition, you may add rows to provide details of your sector-specific targets, by providing the base year emissions specific to that target.

		(reported in 0.1)	Explanation of boundary choice where the inventory boundary differs form the city boundary (include inventory boundary, GDP, and population)		_	Base year emissions (metric tonnes CO2e)	Percentage reduction target
Select from: • All emissions sources included in city inventory • Energy • Transport • Waste	Text field	Select from: • Same (city-wide) - covers entire city and nothing else • Smaller - covers only part of the city • Larger - covers the whole city and adjoining areas	Text field	Numeric field	Numeric field	Numeric field	Numeric field

	Target year absolute emissions (metric tonnes CO2e) (Auto-calculated)		Is this target considered to be your city's most ambitious target?	Does this target align with the global 1.5 - 2°c pathway set out in the Paris Agreement?	Select the initiatives that this target contributes towards	Does this target align to a requirement from a higher level of government?	Please describe your target. If your country has an NDC and your city's target is less ambitious than the NDC, please explain why.
Numeric field	Auto-calculated numeric field	Numeric field	Select from: • Yes • No • Other, please specify	Select from: • Yes - 1.5 c • Yes - 2°c • No • Do not know	Select all that apply: • Global Covenant of Mayors for Climate & Energy • Cities Race to Zero • Durban Adaptation Charter • Mexico City Pact • UNISDR, Making Cities Resilient Campaign • Resilient Cities Catalyst • Resilient Communities for America • STAR Communities • LEED for Cities • Mayors National Climate Action Agenda	Select from: • Yes • Yes, but it exceeds its scale or requirement • No • Do not know	Text field

5.0b Please provide details of your total fixed level target(s).

		Boundary of target relative to city boundary (reported in 0.1)	Explanation of boundary choice where the inventory boundary differs form the city boundary (include inventory boundary, GDP, and population)	ear target was set	Absolute emissions in year target was set	Target year	Projected population in target year
Select from: • All emissions sources included in city inventory • Energy • Transport	Text field	 Select from: Same (city wide) - covers entire city and nothing else Smaller - covers only part of the city Larger - covers the whole city and adjoining 	Text field	lumeric field	Numeric field	Numeric field	Numeric field

Target year absolute emissions goal (metric tonnes CO2e)	Pe	centage of target achieved	Does this target align with the global 1.5 - 2°c pathway set out in the Paris Agreement?	° .		Please describe your target. If your country has an NDC and your city's target is less ambitious than the NDC, please explain why.
Numeric field	Nu	neric field	Select from: • Yes - 1.5°c • Yes - 2°c • No • Do not know	Select all that apply: Global Covenant of Mayors for Climate & Energy Durban Adaptation Charter Mexico City Pact UNISDR, Making Cities Resilient Campaign 100 Resilient Cities Resilient Cities Catalyst Resilient Communities for America	Select from: • Yes • Yes, but it exceeds its scale or requirement • No • Do not know	Text field

5.0c Please provide details of your total city-wide base year intensity target(s). 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 5.0.

	Where sources differ from the inventory, identify and explain these additions / exclusions	Boundary of target relative to city boundary (reported in 0.1)	Explanation of boundary choice where the inventory boundary differs form the city boundary (include inventory boundary, GDP, and population)	idary dary ary,		Intensity unit (Emissions per)		Base year emissions per intensity unit (metric tonnes CO2e per denominator)	Base year emissions (metric tonnes CO2e)	
Select from: All emissions sources included in city inventory Energy Transport Waste Other, please specify	Text field	Select from: • Same (city-wide) - covers entire city and nothing else • Smaller - covers only part of the city • Larger - covers the whole city and adjoining areas • Partial - Covers part of the city and adjoining areas • Local Government Operations –	Text field	Numeric field	Numeric fi	eld	Select from: • Metric tonnes of Cl capita • Metric tonnes of Cl unit GDP • Other, please spec	D2e per	Numeric field	Numeric field
Percentage reduction target in emissions intensity	Target year	Target year absolute emissio (metric tonnes CO2e)	ns Fercentage of target ach	ieved Does this target align global 1.5 - 2°c pathw in the Paris Agreemen	ay set out		res that this target ds		s target align to a nent from a higher level nment?	Please describe your target. If your country has an NDC and your city's target is less ambitious than the NDC, please explain why.
Numeric field	Numeric field	Numeric field	Numeric field	Select from: • Yes - 1.5°c • Yes - 2°c • No • Do not know		Select all that apply: • Global Covenant of Mayors for Climate & Energy • Durban Adaptation Charter • Mexico City Pact • UNISDR Making Cities Resilient		at of Mayors for • Yes • Yes, but it exceeds its scale or requirement ct • No		Text field

5.0d Please provide details of your total city-wide baseline scenario target(s) including projected business as usual emissions.

Sector	Where sources differ from the inventory, identify and explain these additions / exclusions	Boundary of target relative to city boundary (reported in 0.1)	Base year	Year of target introduction	Base year emissions (metric tonnes CO2e)	Target year	Estimated business as usual absolute emissions in target year (metric tonnes CO2e)
Select from: • All emissions sources included in city inventory • Energy • Transport • Waste • Other, please specify	Text field	 Select from: Same - covers entire city and nothing else Smaller - covers only part of the city Larger - covers the whole city and adjoining areas Partial - Covers part of the city and adjoining areas Administrative – covers only emission sources owned and operated by city administration 	Numeric field	Numeric field	Numeric field	Numeric field	Numeric field

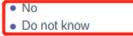
Percentage reduction target from pusiness as usual	Percentage of target achieved	global 1.5 - 2°c pathway set out in		-	Does this target align to a requirement from a higher level of government?	Please describe your target. If your country has an NDC and your city's target is less ambitious than the NDC, please explain why.
Numeric field	Numeric field	Select from: • Yes - 1.5°c • Yes - 2°c • No • Do not know	Text field	Select all that apply: • Global Covenant of Mayors for Climate & Energy • Durban Adaptation Charter • Mexico City Pact	Select from: • Yes • Yes, but it exceeds its scale or requirement • No	Text field

5.3 Does your city-wide emissions reduction target(s) account for the use of transferable emissions units?

Response Options

Select one of the following options:

Yes



OR

Response Options

Select one of the following options:



Do not know

5.3a Please provide details on the use of transferable emissions.

Type of transferable emissions	E nissions saved (metric tonnes CO2e)	represent?	Please identify which target this refers to and lescribe the transferable emissions unit in particular he source of the transferable units
 Select from: Offset credit transactions generated within the boundary and sold Offset credit transactions purchased from outside of the boundary Renewable energy generation produced within the geographic boundary, or reflecting an investment by the city Renewable energy credits Other, please specify 	Numeric field	Numeric field	Text field





Plan Requirements:

- Cities shall publish a city-wide mitigation plan within 3 years of committing to the GCoM
- It can be presented as a standalone document, or together with the adaptation plan (and energy access plan) within a Climate Action Plan covering all three pillars
- Local governments are allowed to develop joint Climate Mitigation Plans
- If the city has a **compliant plan**, then only a **monitoring report is required every 2 years**
- The mandatory requirements are the same for all Climate Plans



Mitigation Planning

5.5 Does your city have a climate change mitigation or energy access plan for reducing city-wide GHG emissions?

Response Options

Select one of the following options:

- Yes
- In progress
- Intending to undertake in the next 2 years
- Not intending to undertake
- Do not know

Connection to other frameworks

Global Covenant of Mayors

Question 5.5 is required for the Global Covenant of Mayors. For more detailed information on the reporting requirements for this question, please refer to Chapter 7 Developing a Climate Action Plan(s) of the GCoM Guidance note.

5.5a Please attach your city's climate change mitigation plan below. If your city has both mitigation and energy access plans, please make sure to attach all relevant documents below.

Publication title and attach document	Web link	Focus area of plan	Year of adoption from local government		Boundary of plan relative to city boundary (reported in 0.1)	If the city boundary is different from the plan boundary, please explain why
Text field and attachment function	Text field	Select from: • Climate change mitigation plan • Energy access plan • Climate change mitigation and energy access plan	Numeric field	Select all that apply from: • Energy • Transport (Mobility) • Building and Infrastructure • Industry • ICT (Information and Communication Technology) • Spatial Planning • Agriculture and Forestry • Fishery • Water	 Select from: Same – covers entire city and nothing else Smaller – covers only part of the city Larger – covers the whole city and adjoining areas Partial – covers part of the city and adjoining areas 	Text field
Stage of implementation	Has your local government assessed the synergies, trade-offs, and co- benefits, if any, of the main mitigation and adaptation actions you Identified?	and co-benefits of this interaction	engagement process	Does your plan include policy goals that explicit reflect one of the following principles? For GCC cities only	y Primary author of plan	Comment
Select from: • Plan in development • Plan developed but not implemented • Plan in implementation • Implementation complete • Measurement in progress • Plan update in progress • Other, please specify	Select from: • Yes • In progress • Intending to undertake in the next 2 years • Not intending to undertake • Don't know	Text field	Text field	 Select one from: An aim not to unfairly or excessively burden poor with the costs and any negative impacts associated with climate action The principle of 'common but differentiated responsibility' and/or 'the emitter (or polluter) pays' principle. Plan includes policy goals that explicitly refle both principles above Other, please specify 	 Relevant city department Consultant International organization Community group Regional / state / provincial 	Text field



Step 1: Attach a fully compliant GHG Emissions Inventory	Step 2: Report Inventory Information on the CDP Platform	Step 3: Set and report a city- wide GHG reduction target	Step 4: Attach and report a Climate Mitigation Plan	Step 5: Report your mitigation actions on the CDP Platform
---	--	--	---	--

5.4 Describe the anticipated outcomes of the most impactful mitigation actions your city is currently undertaking; the total cost of the action and how much is being funded

1e	local	government.	
10	loca	government	

Mitigation action	Action title	Means of implementation	Implementation status	Start year of action	End year of action	Estimated emissions reduction (metric tonnes CO2e)	Energy savings (MWh)	Renewable energy production (MWh)		Timescale of reduction / savings / energy production
Select from <u>Appendix D</u>	Text field	Select all the apply from: • Education • Capacity building and training activities • Awareness raising program or campaign • Stakeholder engagement	Select from: Scoping Pre-feasibility study Pre-implementation Implementation Operation	Numeric field	Numeric field	Numeric field	Numeric field	Numeric field		Select from: • Per year • Projected lifetime • Other, please specify
Co-benefit area	Action description and implementation progre		То	t I cost of the project	Total cost provided by the loca government	al Majority funding sourc		st provided by the majority source (currency)	Web lin	k to action website
Select all that apply from Apper	ndix E Text field	 Feasibility 	lity study status undertaken finalized, and finance red	umeric field	Numeric field	Select from: • Local • (Sub) national • International (ODA • Climate finance (ca • Public-private parte	arbon credits)	t field	Text fiel	d

FEEDBACK AND AMENDMENTS

RECEIVING FEEDBACK FOR AMENDMENTS

- CDP and ICLEI send the feedback via email to the main user
- If the city submits by the early bird deadline there will be guaranteed opportunity to make amendments to your response using our tailored feedback to ensure higher badge performance
- We review the submissions from all cities and provide a feedback round that includes detailed question specific recommended amendments
- The city can go directly to input the data point within the questionnaire that is required for compliance
- Main users can make any amendments to the 2021 response, please log in to your <u>account</u> and click 'Amend Submission' in your Cities 2021 block. There are further instructions available in the <u>Cities</u> <u>User Guide</u>.
- We encourage you to submit amendments within three weeks from the point of re-opening your submission to complete your amendment(s). See further slides for timeline.
- If you have any issues regarding the feedback or the process you can reply directly to the email from which you received the feedback or the regional accounts that were in copy

RECEIVING FEEDBACK FOR AMENDMENTS - example

Phase	Compliance status	Comment/feedback			
Inventory	Not Compliant	Required amendments: [Question 4.6a] You have chosen to complete the CRF inventory summary. Please ensure you have completed all mandar			
		not present, please ensure that a notation key When using the Integrated Elsewhere (IE) not	In the feedback table, where the badge		
		information on where the data is reported in	phase compliance status is not compliant,		
		valid, and a notation key ME (Not estimated) is non-co	there is question specific required		
	(amendments that need to be made in order		
		accurate estimates and notation keys with ful	for compliance to be achieved		
Target	Compliant				
Mitigation Plan	Not Compliant	Required amendments: [Question 5.5a] A description of the stakehold the relevant field in question 5.5a.	holder engagement process must be provided in		
ADAPTATION RVA	Not Compliant	Required amendments:			
		[Question 2.2] At least 1 complete row is nee Currently, 7 factors(s) have been reported, bu	Compliance may be maintained from previous		
Goal	Compliant		submission even if current year reporting is no		
Adaptation plan	Compliance Maintained - 2020	Compliance maintained from previous submis this year's submission. These requirements m to maintain compliance and retain your badge [Question 3.2a] A description of the stakehole the relevant field in question 3.2a.	complete. However, to achieve compliance this badge phase in the year of reporting, w provide recommended amendments so that		
	Inventory Target Mitigation Plan RVA Goal	Inventory Not Compliant Target Compliant Mitigation Plan Not Compliant RVA Not Compliant Goal Compliant	Inventory Not Compliant Required amendments: [Question 4.6a] You have chosen to complete Please ensure you have completed all manda not present, please ensure that a notation ke When using the Integrated Elsewhere (IE) not information on where the data is reported in. The notation key NE (Not estimated) is non-co valid, and a notation key NE (Not estimated) is non-co valid, and a notation key NE (Not estimated) is non-co valid, and a notation key NE is not vali accurate estimates and notation key NE is not vali accurate estimates and notation keys with ful Target Compliant Mitigation Plan Not Compliant Required amendments: [Question 5.5a] A description of the stakehold the relevant field in question 5.5a. RVA Not Compliant Goal Compliant Adaptation plan Compliant Required amendments: [Question 2.2] At least 1 complete row is nee Currently, 7 factors(s) have been reported, bu this year's submission. These requirements m to maintain compliance and retain your badge [Question 3.2a] A description of the stakehold		

HOW TO MAKE AMENDMENTS

Amending your response (main user only)

Making a change to your response is free of charge and can be made before or after the reporting deadline. **However**, changes made to a response after the reporting deadline may not be included in analysis or scoring, as this will be underway.

 If you are the main user, you can amend your response from the dashboard by navigating to 'Latest Submission Details' in your Cities 2021 block and click 'Amend Submission'.

nission Details				
Submitted To	Submitted by	Public/Non-public		
CDP Cities, C40, Global Covenant of Mayors	Your Name Here	Public	<u>View</u> Submission	Amend Submission
	Submitted To CDP Cities, C40, Global	Submitted To Submitted by CDP Cities, C40, Global Your Name Here	Submitted To Submitted by Public/Non-public CDP Cities, C40, Global Your Name Here Public	Submitted To Submitted by Public/Non-public CDP Cities, C40, Global Your Name Here Public <u>View</u>

Alternatively, you can contact CDP at <u>cities@cdp.net</u> who can allow you to amend your response.

2. You will then get a message:



Your response will stay in 'Amendment in Progress' until you resubmit, so please resubmit as soon as possible.

Progress' with the 'Enter Questionnaire' button (this may take a couple of minutes).

4. Click Enter Questionnaire



- 5. Make the necessary changes to your response. You will not be able to amend answers on the submission page.
- 6. When complete, click the 'Submit Amendments' button.

CDP-I	CLEI Un	ified Reporting	; System	2021	
tate: Disclo	oser amendme	nts			

7. Confirm your submission.



Please see page 59 of the Cities User Guide