



Climate-Neutral and Smart Cities Mission Call for Expression of Interest

Fields marked with * are mandatory.

Welcome!

The Climate-Neutral and Smart Cities Mission aims to

- deliver at least 100 European climate-neutral and smart cities by 2030;
- ensure that these cities also act as experimentation and innovation hubs to put all European cities in a position to become climate-neutral by 2050.

This **Call for Expression of Interest** offers ambitious European cities the opportunity to work and learn together to tackle the challenge of a lifetime. It is **addressed to cities interested in joining the Mission** and in particular to become climate neutral by 2030. **Cities can express their interest by filling in and submitting this questionnaire by 31st January 2022 at 17:00 CET.**

The Cities Mission is not only about further advancing leading cities; it aims to be wholly inclusive by selecting a geographically and culturally diverse cohort of cities who are recognised as much for their ambition and willingness to innovate, as for their progress with climate mitigation. You should not be discouraged to apply – for example – if you feel that your city’s plans until now have not been very ambitious or if you cannot provide some of the information requested in the questionnaire. While the Mission is designed to help accelerate the progress of Europe’s most ambitious cities, its greatest value will be, in fact, to inspire and serve **all** cities on their journey to climate neutrality. We invite cities with the courage and ambition to embrace the challenge, as well as the innovation, learning and transformation that comes with it.

Information under the Eligibility and Additional Information sections are **mandatory** and necessary to process the Expression of Interest. Please note that the only “eligibility” or

“qualifying” criteria are those linked to the questions in the Eligibility section. The Additional Information questions are vital to build a foundation of information about the cities that express interest to participate in the Mission. We appreciate your contributions to this minimum baseline of information.

Information gathered from other sections of the questionnaire will help better inform the next phases of Mission implementation, including the services to be provided through the [Mission Platform](#). These sections are not mandatory, but you are **encouraged to provide as much information as currently available**. However, failing to fill in one or more questions under these sections will **not** disqualify your Expression of Interest for submission. We would ask you to indicate the reasons when you are not able to provide a response, including if that information is not readily available.

The documents that you wish to upload in the questionnaire can be either in English or in any one of the official EU languages. In the latter case, we would be grateful if you could provide, if possible, as well a courtesy translation or a summary in English.

The answers to the questions in free form text can be either in English or in any one of the official EU languages. In the latter case, please note that a machine translation of the answers to English will be performed and will be communicated together with the original questionnaire to the experts reviewing the Expressions of Interest.

The European Commission will select cities to participate in the Mission with the help of independent external experts. The evaluation criteria are explained in the [Info Kit for Cities](#). They include the cities’ level of ambition, preparedness, existing and planned commitment to climate neutrality, commitment to involve citizens and stakeholders, as well as inclusiveness, diversity and geographical balance.

PARTICIPATION OF CITIES OUTSIDE THE EU: Cities that are established in countries associated to Horizon Europe or in other third countries negotiating association to Horizon Europe can be involved in the mission by replying to this Call. However, they should be aware that they may not be eligible to receive funding from other EU programmes and this would substantially limit the support they would receive in particular from the Mission Platform. Cities should therefore be able to demonstrate in their response to this Call how they will be able to meet the objectives of the Mission without help from other EU programmes.

Additionally, as EU funding schemes are usually not available to non-associated third countries, cities established therein would not benefit from this Call for Expression of Interest. They are thus not advised to fill in the questionnaire. However, should they wish to receive information about the activities of the Cities Mission and its international dimension, they can contact the Cities Mission team at the following address: EC-CITIES-MISSION@ec.europa.eu.

Personal data protection and this form

The European Commission collects and further processes personal data pursuant to Regulation (EU) 2018/1725 of the European Parliament and of the Council of 23 October 2018 on the protection of natural persons with regard to the processing of personal data by the Union institutions, bodies, offices and agencies and on the free movement of such data repealing Regulation (EC) No 45/2001.

In the case of this form, the European Commission Directorate-General Research and Innovation, Unit C2 Future Urban and Mobility Systems, collects and uses your personal information within the framework of targeted consultation activities. In view of the design, evaluation and revision of initiatives, it is indispensable for the Commission to receive input and views from those who are considered to be concerned by the policy or initiative. In this particular case, your personal data is registered and processed in order to allow the Commission to send you a personal link to participate in the EU Mission for Climate-Neutral and Smart Cities initiative. The information collected includes first name, surname, email address, organization and position.

Your personal data will not be used for an automated decision-making including profiling.

For additional details on the handling and processing of your personal data, please see the 'Personal Data Statement' available on the right hand side on all pages of this form.

I confirm I accept the data protection statement

Use of the technical data collected through this form

The call for Expression of Interest (hereinafter: EOI) is addressed to cities interested in joining the Cities Mission. The call for EOI collects information of participating cities in order to determine their eligibility for the Cities Mission and to assess their current situation as relevant for the participation in the Cities Mission and the Mission's ambition of reaching climate neutrality by 2030.

The collected data will be further processed and analysed in view of establishing a baseline for the Cities Mission, including current levels of preparedness of local authorities, remaining barriers and assistance needs. This analysis is undertaken to prepare the next phases of Mission implementation.

For additional details on the handling and use of the technical data collected through this form, please see the 'Technical Data Use Policy' available on the right hand side on all pages of this form.

I confirm I accept the technical data policy

Eligibility

Information about the city

* Please select if your city is located in

- An EU country
- A country with an Association Agreement to the Horizon Europe programme or in the process of negotiating such Agreement
- Another non-EU country

*** Please select the country in which your city is located**

- AT - Austria
- BE - Belgium
- BG - Bulgaria
- HR - Croatia
- CY - Cyprus
- CZ - Czechia
- DK - Denmark
- EE - Estonia
- FI - Finland
- FR - France
- DE - Germany
- EL - Greece
- HU - Hungary
- IE - Ireland
- IT - Italy
- LV - Latvia
- LT - Lithuania
- LU - Luxembourg
- MT - Malta
- NL - Netherlands
- PL - Poland
- PT - Portugal
- RO - Romania
- SK - Slovak Republic
- SI - Slovenia
- ES - Spain
- SE - Sweden

*** Please select the country in which your city is located**

Cities that are established in countries associated to Horizon Europe or in other third countries negotiating association to Horizon Europe can be involved in the mission by replying to this Call. However, they should be aware that they may not be eligible to receive funding from other EU programmes and this would substantially limit the support they would receive in particular from the Mission Platform. Cities should therefore be able to demonstrate in their response to this call how they will be able to meet the objectives of the Mission without help from other EU programmes.

- AL - Albania
- AM - Armenia
- BA - Bosnia and Herzegovina
- FO - Faroe Islands
- GE - Georgia
- IS - Iceland

- IL - Israel
- XK - Kosovo
- MD - Moldova
- ME - Montenegro
- MA - Morocco
- MK - North Macedonia
- NO - Norway
- RS - Serbia
- TN - Tunisia
- TR - Turkey
- UA - Ukraine
- GB - United Kingdom

As EU funding schemes are usually not available to non-associated third countries, cities established therein would not benefit from this call for expression of interest. They are thus not advised to fill in the questionnaire. However, should they wish to receive information about the activities of the Cities Mission and its international dimension, they can contact the Cities Mission team at the following address: EC-CITIES-MISSION@ec.europa.eu

*** Please provide the official name of your city in English**

*** What type of administrative unit is your city according to Eurostat?**

Eurostat regions and cities glossary available at:

https://ec.europa.eu/eurostat/statistics-explained/index.php?title=Category:Regions_and_cities_glossary

- Local Administrative Unit (LAU)
- City
- Greater City
- Functional Urban Area (FUA)
- Metropolitan region
- Not applicable

*** Please provide the code/ID according to the option previously selected**

Please consult the file provided in the File section on the right side of this page.

*** If "not applicable", please define the national administrative name and/or code that uniquely identifies your city**

This information is used to clearly identify the city. Please refer to names and codes for national administrative units, such as wards, counties and councils. If both national administrative name and code are available, please include both.

*** Please specify the number of inhabitants in your city**

Only values between 10000 and 1.5E7 are allowed

Eligibility criterion on population size: Cities may participate in the Mission if they have at least 50 000 inhabitants. Cities from countries with 5 or less cities of more than 100 000 inhabitants may express their interest if they have more than 10 000 inhabitants. Those countries are: Croatia (HR), Cyprus (CY), Estonia (EE), Ireland (IE), Latvia (LV), Lithuania (LT), Luxembourg (LU), Malta (MT), Slovenia (SI) and Slovakia (SK).

 inhabitants

*** To which year does this population figure refer?**

Format: 2xxx

Commitment

Please confirm your city's intention to join the Cities Mission with the ambition to reach climate neutrality by 2030

I confirm

If confirmed, please upload the document supporting your city's intention to join the Mission

Please provide a letter or a declaration, signed by a city representative (e.g. Mayor, Deputy Mayor or authorised delegated representative within the city administration) confirming the city's interest to join the Cities Mission and to commit to the objective of reaching climate neutrality by 2030, as defined in the context of the Mission.

Additional information

About the city

*** Please define the land area within the administrative boundary (in square km)**

Only a numerical value is allowed

*** Please specify the geographic boundary that corresponds to your city's 2030 climate neutrality target**

- Same as the city administrative boundary
- Smaller than the city administrative boundary
- Larger than the city administrative boundary
- Not yet decided

*** If the boundary is smaller than the city administrative boundary, please identify the excluded area(s) and justify the exclusion(s)**

500 character(s) maximum

Provide a justification why the respective areas are proposed to be excluded from the 2030 target.

*** If the boundary is larger than the city administrative boundary, please provide further information**

500 character(s) maximum

Please clearly state any additional geographic area(s) covered by the 2030 target.

If not yet decided, please elaborate further

500 character(s) maximum

Please provide further information on the potential area(s) currently considered to be excluded from or additionally covered by the 2030 target.

About the Expression of Interest

*** Please confirm that your city intends to address all Green House Gases (GHGs) and sectors / sources of emissions to reach climate neutrality by 2030 as defined by the Cities Mission**

Mandatory GHG emissions to be covered per the Cities Mission's climate neutrality definition:

1. Direct GHG emissions (Scope 1) within the city boundary from stationary energy (buildings/facilities/equipment), transport, waste / wastewater disposal and treatment, Industrial Processes and Product Use (IPPU), and Agriculture, Forestry and Other Land Use (AFOLU).
2. Indirect GHG emissions (Scope 2) within the city boundary due to consumption of grid supplied electricity and grid supplied heat or cold.
3. Out-of-boundary GHG emissions (Scope 3) due to the disposal and treatment of waste / wastewater generated within the city boundary.

Emissions of the following GHG have to be accounted for: CO₂, CH₄, N₂O, HFCs, PFCs, SF₆, and NF₃

- Yes, we confirm
 No, we propose duly justified exclusions

*** If no, please provide a detailed justification for any exclusion**

1000 character(s) maximum

Provide a detailed description of exclusions from the target boundary (i.e. clearly state the exclusion of any sector, source, scope, gas specified as part of the applicable climate neutrality definition)

*** Is this Expression of Interest part of a group of cities?**

Please select yes, if your city or entity submits this EOI as part of a larger group of cities.

Please be aware that every city being part of this group will still need to fill in their own questionnaire and submit their Expression of Interest clearly indicating that they are doing so as part of such group.

- Yes
- No

*** If yes, please provide information on the group (list of cities) and the group's coordinating entity**

*** Please select the languages used for the uploaded documents provided**

The documents that you wish to upload in the questionnaire can be either in English or in any one of the official EU languages. In the latter case, we would be grateful if you could provide, if possible, as well a courtesy translation or a summary in English.

The answers to the questions in free form text can be either in English or in any one of the official EU languages. In the latter case, please note that a machine translation of the answers in English will be performed and will be communicated together with the original questionnaire to the experts reviewing the expressions of interest.

- Bulgarian Estonian Irish Portuguese
- Croatian Finnish Italian Romanian
- Czech French Latvian Slovak
- Danish German Lithuanian Slovenian
- Dutch Greek Maltese Spanish
- English Hungarian Polish Swedish

About the city's representative

Please provide the following information on the legal representative of your city

*** Name**

*** Surname**

*** Position**

*** Email address**

Please confirm the following statement: I hereby declare that I have the consent of the city(ies) administration(s) to respond to this Call for Expression of Interest and to submit the questionnaire on its /their behalf. I hereby confirm that the information contained in this questionnaire is correct and complete

Current level of emissions

The questions in this section enquire about your city’s current level of Greenhouse Gas (GHG) emissions and the systems you may have put in place to compile city-wide GHG inventories. Cities are not expected to have completed a comprehensive GHG emissions inventory for all sectors and scopes covered by the Cities Mission (please consult the Info Kit for Cities, Part II, Section 2.4 for further information), or to perform an inventory to answer to this call. However, you are encouraged to share information about previous inventories in your city, irrespective of the inventory scope and methodology.

This is not intended to be an excluding criterion. It is to enable us to get a clearer understanding of what methods cities are using to collect such data, and also to understand better the GHG emission reduction efforts needed in different cities expressing their interest.

Overall

Has an inventory of Greenhouse Gas (GHG) emissions been undertaken for your city since 2005 (included)?

A Greenhouse Gas inventory is an accounting of Greenhouse Gases (GHGs) emitted into or removed from the atmosphere. An inventory lists, by source, the amount of GHGs emitted into the atmosphere during a given time period (usually a calendar year).

If multiple inventories are available, preference should be given to the most complete and most recent inventory.

- Yes
- No
- Under preparation

Please indicate the total GHG emissions resulting from the inventory in question (metric tonnes CO2 equivalent)

Please provide the figures in metric tonnes CO2 equivalent (absolute value, i.e. not per capita).

Emissions resulting from the energy generation sector should not be included in the total emissions of the city in order to avoid double counting. The resulting emissions should be captured as the indirect emissions from consumption of grid-supplied energy under the stationary energy sector of the inventory. However, if the total emissions indicated here include direct emissions from energy generation, please indicate this when answering the question “Please indicate the sector(s)/source(s) covered by the GHG inventory” below.

Inventory year (accounting year)

The accounting year refers to the year to which the collected data corresponds (i.e. not the year in which the inventory was compiled).

- 2005
- 2006
- 2007
- 2008
- 2009
- 2010
- 2011
- 2012
- 2013
- 2014
- 2015
- 2016
- 2017
- 2018
- 2019
- 2020

Population in accounting year

Please indicate the standard/methodology applied for compiling the GHG inventory

- Covenant of Mayors Europe (CoM Europe) methodology
- Global Protocol for Community Greenhouse Gas Emissions Inventories (GPC)
- Global Covenant of Mayors (GCoM) Common Reporting Framework (CRF)
- 2006 IPCC Guidelines for National Greenhouse Gas Inventories
- Regional or country specific methodology
- City specific methodology
- Other

If other, please specify

Please indicated the sectors/sources covered by the GHG inventory

It is good practice to account for GHG emissions from the generation of grid-supplied energy by facilities within the city boundary, as well as by facilities owned (fully or partially) by the local government located outside the boundary.

However, as the energy generated by such facilities is supplied to the grid, the resulting emissions should be captured as the indirect emissions from consumption of grid-supplied energy under the stationary energy sector of the inventory. As such, emissions resulting from the energy generation sector should not be included in the emissions total of the city in order to avoid double counting.

- Stationary energy Agriculture, Forestry, and Other Land Use (AFOLU) Other, please specify
- Transport Industrial Processes and Product Use (IPPU)
- Waste/wastewater Energy generation

If other, please specify

Please indicate which of the following Greenhouse Gases are covered by the inventory

- CO2 N2O PFCs NF3
- CH4 HFCs SF6

Please indicate the boundary of the inventory relative to the city's administrative boundary

- Same - covers entire administrative boundary and nothing else
- Smaller - covers only parts of the administrative boundary
- Larger - covers the whole administrative boundary and adjoining areas
- Partial - covers part of the administrative boundary and adjoining areas

Can you provide a sector breakdown of your city's current level of GHG emissions (as established by the GHG inventory referenced above)?

- Yes
- No

Please provide in the table below total emissions (absolute values, in metric tonnes CO2 equivalent) per sector for which data is available

Please provide the figures in metric tonnes CO2 equivalent (absolute value, i.e. not per capita). The information provided in the table should stem from the inventory for which details have been provided above.

Leave blank any field uncovered by your inventory. If a different aggregation/breakdown is used, please choose the "Included elsewhere" option in the table provided in the next question.

Please consult the InfoKit, Section 2.4 (page 21ff.) for further information.

Sectors	Total emissions (metric tonnes CO2e)
Stationary energy This should cover direct and indirect emissions.	
Transport This should cover direct and indirect emissions.	
Waste/wastewater This should cover direct emissions as well as out-of-boundary emissions (i.e. emissions from all waste/wastewater generated within the city, whether managed/disposed of within the city or outside).	
Industrial Processes and Product Use (IPPU) This should cover direct emissions.	
Agriculture, Forestry, and Other Land Use (AFOLU) This should cover direct emissions.	
Other (please specify in the additional question below)	
TOTAL EMISSIONS (excluding generation of grid-supplied energy)	
Energy generation (emissions resulting from the generation of grid-supplied energy) Emissions resulting from the Energy Generation sector should not be included in the emissions total of the city in order to avoid double counting.	

In case 'Other' emissions have been provided in the previous table, please explain the origin

For each sector for which the total emissions are not available, please select the reason that fits best

"Not occurring": An activity or process does not occur or exist within the city. For example, NO may be used for the Aviation sub-sector if there are no aviation activities that both start and end within the city boundary.

"Included elsewhere": GHG emissions for this activity are estimated and presented in another sector in the same inventory.

"Confidential": GHG emissions which could lead to the disclosure of confidential information, and as such are not reported publicly. For instance, certain industrial facilities may not permit public data disclosure where this impacts security.

"Not estimated": GHG emissions occur but have not been estimated or reported.

Sectors	Not occurring	Included elsewhere	Not estimated	Confidential
Stationary energy	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Transport	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Waste/wastewater	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Agriculture, Forestry, and Other Land Use (AFOLU)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Industrial Processes and Product Use (IPPU)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Other (please specify in column "Additional Information")	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Energy generation (emissions resulting from the generation of grid-supplied energy)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Please upload any supporting documentation

Please upload the GHG inventory (summary output) and supporting documentation (if applicable).

Is your city regularly compiling GHG emissions inventories for its territory?

- Yes, at least annually
- Yes, at least every 2 years
- Yes, at least every 4 years
- Yes, less frequently than every 4 years
- No

Trends

If available, please provide data or figures on the trend of your city's GHG emissions over time (as available, but covering a period of at least 5 years)

500 character(s) maximum

Please describe the trend over time (this can be supported by the upload of a graph or table in the following question). Clearly specify the units of measurement (i.e. whether absolute or per capita)

You may upload supporting documentation (if any)

Documentation should specify the coverage of the GHG emission figures and their source. If absolute figures are provided, please specify the evolution of the population in the same timeframe (if significant changes occurred)

Current policies

The questions in this section invite you to highlight your city's climate ambition and policies up to now. The Mission intends to be strongly inclusive and to include a diverse group of cities with different starting points in respect of progress towards climate neutrality.

Here you have the opportunity to describe any official targets already in place, your city's adopted plans relevant to climate change mitigation and GHG emissions reduction at sector or cross-sectoral level, and to provide further details on existing policies and measures. Additionally, this section collects information on the degree of involvement of your city in relevant initiatives and projects at EU, national or local levels. This information will allow us to gain a more detailed picture of your city's starting point in the most relevant sectors for urban climate action.

While this section also highlights the topic of digitalisation and smart city as an important enabler of the climate neutrality transition, it is treated as a horizontal topic in all other sections.

The transition to climate neutrality will bring both co-benefits and adverse impacts. The last questions in this section will provide insights into if and how these are currently addressed.

Details on existing targets

Has your city officially adopted a Greenhouse Gas (GHG) emissions reduction target for the future (i.e. with a target year after 2020)?

Yes

- No
- Planned

Please state the target and its official source

500 character(s) maximum

Please specify all relevant details pertaining to the target (e.g. reduction percentage, target year/base year).

Please specify the sectors covered by the target

- Stationary energy
- Agriculture, Forestry, and Other Land Use (AFOLU)
- Other
- Transport
- Industrial Processes and Product Use (IPPU)
- Waste/wastewater
- Energy generation

Please specify the reduction percentage

Please specify the reduction percentage using only numbers. Example: -10% is introduced as 10.

Please specify the target boundary relative to the city's administrative boundary

- Same as the city's administrative boundary
- Smaller than the city's administrative boundary
- Larger than the city's administrative boundary
- Covers part of the city's administrative boundary and adjoining areas

If applicable, please specify the base year

- 1990
- 1991
- 1992
- 1993
- 1994
- 1995
- 1996
- 1997
- 1998
- 1999
- 2000
- 2001
- 2002
- 2003
- 2004
- 2005
- 2006
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- 2008

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- 2013
- 2014
- 2015
- 2016
- 2017
- 2018
- 2019
- 2020
- 2021

Please specify the target year

- 2021
- 2022
- 2023
- 2024
- 2025
- 2026
- 2027
- 2028
- 2029
- 2030
- 2031
- 2032
- 2033
- 2034
- 2035
- 2036
- 2037
- 2038
- 2039
- 2040
- 2041
- 2042
- 2043
- 2044
- 2045
- 2046
- 2047
- 2048
- 2049
- 2050

Please upload the official source including the stated target

Had your city officially adopted a GHG emissions reduction target in the past (e.g., with a target year up to 2020)?

This question targets overall, cross-sectoral GHG emissions reduction targets

- Yes
- No

If yes, please describe the target and its official source

500 character(s) maximum

Please specify all relevant details pertaining to the target (e.g. reduction percentage, target year/base year).

If yes, was the target achieved?

- Yes
- No
- Not known

If yes, did this target exceed the national target?

For example, as compared to the national binding annual GHG emission reduction targets set by the Effort Sharing Regulation for each Member State.

- Yes
- No
- Not known
- Not applicable

Existing plans

Has your city adopted any cross-sectoral or sectoral strategies or action plans (hereinafter plan) relevant to climate change mitigation/GHG emissions reduction since 2005 (included)?

2005 is indicated as a cut off year across this section of the questionnaire, to ensure the focus is on recent policies and comparability across answers.

- Yes
- No

How many plans would you like to provide information about?

- 1
- 2
- 3
- 4
- 5

Plan 1

Please select the type of plan

Other (cross-sectoral) plans can also refer to relevant digital or smart strategies or action plans.

- Sustainable Energy and Climate Action Plan/Sustainable Energy Action Plan (SECAP/SEAP)
- Sustainable Urban Mobility Plan (SUMP)
- Sustainable urban Development strategy (SuDs)
- Climate change mitigation plan
- Other (cross-sectoral)
- Energy plan
- Transport plan
- Waste/wastewater management plan
- Air quality plan
- Green infrastructure plan
- Other (sectoral)

Name

Year of adoption

- 2005
- 2006
- 2007
- 2008
- 2009
- 2010
- 2011
- 2012
- 2013
- 2014
- 2015
- 2016
- 2017
- 2018
- 2019
- 2020
- 2021
- Not applicable

End year

- 2005
- 2006
- 2007
- 2008
- 2009

- 2010
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- 2038
- 2039
- 2040
- 2041
- 2042
- 2043
- 2044
- 2045
- 2046
- 2047
- 2048
- 2049
- 2050
- Beyond 2050
- Not applicable

Degree of implementation

- Fully implemented

- Under implementation
- Not started

Scale of the plan

- Smaller than district/neighbourhood scale
- District/neighbourhood scale
- City scale
- Greater than city scale

Does this plan contain concrete target(s) for the reduction of GHG emissions?

- Yes
- No

Please upload any supporting documentation

Plan 2

Please select the type of plan

Other (cross-sectoral) plans can also refer to relevant digital or smart strategies or action plans.

- Sustainable Energy and Climate Action Plan/Sustainable Energy Action Plan (SECAP/SEAP)
- Sustainable Urban Mobility Plan (SUMP)
- Sustainable urban Development strategy (SuDs)
- Climate change mitigation plan
- Other (cross-sectoral)
- Energy plan
- Transport plan
- Waste/wastewater management plan
- Air quality plan
- Green infrastructure plan
- Other (sectoral)

Name

Year of adoption

- 2005
- 2006
- 2007
- 2008
- 2009
- 2010
- 2011
- 2012

- 2013
- 2014
- 2015
- 2016
- 2017
- 2018
- 2019
- 2020
- 2021
- Not applicable

End year

- 2005
- 2006
- 2007
- 2008
- 2009
- 2010
- 2011
- 2012
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- 2019
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- 2040
- 2041
- 2042
- 2043
- 2044
- 2045
- 2046
- 2047
- 2048
- 2049
- 2050
- Beyond 2050
- Not applicable

Degree of implementation

- Fully implemented
- Under implementation
- Not started

Scale of the plan

- Smaller than district/neighbourhood scale
- District/neighbourhood scale
- City scale
- Greater than city scale

Does this plan contain concrete target(s) for the reduction of GHG emissions?

- Yes
- No

Please upload any supporting documentation

Plan 3

Please select the type of plan

Other (cross-sectoral) plans can also refer to relevant digital and smart strategies or action plans.

- Sustainable Energy and Climate Action Plan/Sustainable Energy Action Plan (SECAP/SEAP)
- Sustainable Urban Mobility Plan (SUMP)
- Sustainable urban Development strategy (SuDs)
- Climate change mitigation plan
- Other (cross-sectoral)
- Energy plan
- Transport plan
- Waste/wastewater management plan

- Air quality plan
- Green infrastructure plan
- Other (sectoral)

Name

Year of adoption

- 2005
- 2006
- 2007
- 2008
- 2009
- 2010
- 2011
- 2012
- 2013
- 2014
- 2015
- 2016
- 2017
- 2018
- 2019
- 2020
- 2021
- Not applicable

End year

- 2005
- 2006
- 2007
- 2008
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- 2037
- 2038
- 2039
- 2040
- 2041
- 2042
- 2043
- 2044
- 2045
- 2046
- 2047
- 2048
- 2049
- 2050
- Beyond 2050
- Not applicable

Degree of implementation

- Fully implemented
- Under implementation
- Not started

Scale of the plan

- Smaller than district/neighbourhood scale
- District/neighbourhood scale
- City scale
- Greater than city scale

Does this plan contain concrete target(s) for the reduction of GHG emissions?

- Yes
- No

Please upload any supporting documentation

Plan 4

Please select the type of plan

Other (cross-sectoral) plans can also refer to relevant digital and smart strategies or action plans.

- Sustainable Energy and Climate Action Plan/Sustainable Energy Action Plan (SECAP/SEAP)
- Sustainable Urban Mobility Plan (SUMP)
- Sustainable urban Development strategy (SuDs)
- Climate change mitigation plan
- Other (cross-sectoral)
- Energy plan
- Transport plan
- Waste/wastewater management plan
- Air quality plan
- Green infrastructure plan
- Other (sectoral)

Name

Year of adoption

- 2005
- 2006
- 2007
- 2008
- 2009
- 2010
- 2011
- 2012
- 2013
- 2014
- 2015
- 2016
- 2017
- 2018
- 2019
- 2020
- 2021
- Not applicable

End year

- 2005
- 2006
- 2007
- 2008
- 2009
- 2010
- 2011
- 2012
- 2013
- 2014
- 2015
- 2016
- 2017
- 2018
- 2019
- 2020
- 2021
- 2022
- 2023
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- 2026
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- 2030
- 2031
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- 2036
- 2037
- 2038
- 2039
- 2040
- 2041
- 2042
- 2043
- 2044
- 2045
- 2046
- 2047
- 2048
- 2049
- 2050
- Beyond 2050

- Not applicable

Degree of implementation

- Fully implemented
 Under implementation
 Not started

Scale of the plan

- Smaller than district/neighbourhood scale
 District/neighbourhood scale
 City scale
 Greater than city scale

Does this plan contain concrete target(s) for the reduction of GHG emissions?

- Yes
 No

Please upload any supporting documentation

Plan 5

Please select the type of plan

Other (cross-sectoral) plans can also refer to relevant digital and smart strategies or action plans.

- Sustainable Energy and Climate Action Plan/Sustainable Energy Action Plan (SECAP/SEAP)
 Sustainable Urban Mobility Plan (SUMP)
 Sustainable urban Development strategy (SuDs)
 Climate change mitigation plan
 Other (cross-sectoral)
 Energy plan
 Transport plan
 Waste/wastewater management plan
 Air quality plan
 Green infrastructure plan
 Other (sectoral)

Name

Year of adoption

- 2005
 2006
 2007

- 2008
- 2009
- 2010
- 2011
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- 2015
- 2016
- 2017
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- 2020
- 2021
- Not applicable

End year

- 2005
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- 2039
- 2040
- 2041
- 2042
- 2043
- 2044
- 2045
- 2046
- 2047
- 2048
- 2049
- 2050
- Beyond 2050
- Not applicable

Degree of implementation

- Fully implemented
- Under implementation
- Not started

Scale of the plan

- Smaller than district/neighbourhood scale
- District/neighbourhood scale
- City scale
- Greater than city scale

Does this plan contain concrete target(s) for the reduction of GHG emissions?

- Yes
- No

Please upload any supporting documentation

One of the plans you previously selected was "Sustainable Energy and Climate Action Plan /Sustainable Energy Action Plan (SECAP/SEAP)". Was the mitigation pillar of your plan accepted following analysis by the JRC?

- Yes (SEAP 2020)
- Yes (SECAP 2030)
- Under evaluation

Current policies - energy

Which of the following areas does your city's current energy policy address?

Please consider also facilities and equipment in building-related options.

- "Building electrification" is the process of switching from fossil fuels to clean and renewable electricity (e.g., for heating, for cooking)

- "Integrating RES systems into the building" refers to any active/passive envelope system that uses Renewable Energy Sources (RES) from the natural environment to produce power or thermal energy. Examples: building-integrated photovoltaics (BIPV), building-integrated solar thermal (BIST), thermoelectric embedded envelopes.

- "Virtual power plants" are networks of decentralised, medium-scale power generating units such as wind farms, solar parks, and Combined Heat and Power (CHP) units, as well as flexible power consumers and storage systems.

- "Urban heat island effect mitigation" encompasses any strategies that aim at reducing the outdoor temperature in the city with associated energy savings. This is typically performed by tackling the causes for local temperature levels significantly higher compared to the surrounding rural areas (e.g., human activities, the replacement of natural features with man-made materials, the alteration of the wind pathways and force by urban roughness and layouts).

- | | |
|--|--|
| <input type="checkbox"/> Nearly Zero Energy Buildings (NZEBs) (new buildings) | <input type="checkbox"/> Street lighting |
| <input type="checkbox"/> Positive Energy Buildings | <input type="checkbox"/> Citizen and renewable energy communities |
| <input type="checkbox"/> Nearly Zero Energy Buildings (NZEBs) (renovation of existing buildings) | <input type="checkbox"/> On-site and nearby renewable energy generation (electricity, heat/cold) |
| <input type="checkbox"/> Energy renovation/retrofit of existing buildings (below NZEB level) | <input type="checkbox"/> Local (off-site) renewable energy generation (electricity, heat/cold) |
| <input type="checkbox"/> Building electrification | <input type="checkbox"/> District heating/cooling |
| <input type="checkbox"/> Energy efficient electrical appliances | <input type="checkbox"/> Demand response |
| <input type="checkbox"/> Integrating RES systems into the building | <input type="checkbox"/> Virtual power plants |
| <input type="checkbox"/> Building Automation and Control Systems (BACS) /Building Energy Management Systems (BEMS) | <input type="checkbox"/> Urban heat island effect mitigation |
| <input type="checkbox"/> Nearly Zero / Positive Energy Districts | <input type="checkbox"/> Mixed-use development and sprawl containment |
| <input type="checkbox"/> Digitalisation and smart city solutions | <input type="checkbox"/> Urban regeneration |
| <input type="checkbox"/> Local heat/cold storage | <input type="checkbox"/> Behavioural changes |

Which type of energy policy measures does your city currently apply?

- | | |
|--|---|
| <input type="checkbox"/> Regulatory (e.g. building codes / standards, minimum energy performance standards, public procurement rules, energy supplier obligations) | <input type="checkbox"/> Infrastructure measures (e.g. upgrade of power plants, increase of RES capacity, smart grids) |
| <input type="checkbox"/> Financial incentives and fiscal instruments (e.g. grants, loans, soft loans, taxes, subsidies) | <input type="checkbox"/> Planning solutions (e.g. integrated land use and urban planning, integrated long-term strategies for sub-sectors, such as institutional buildings) |
| <input type="checkbox"/> Public Private Partnerships | <input type="checkbox"/> Voluntary measures (e.g. industry voluntary agreement programmes) |
| <input type="checkbox"/> Information/awareness raising (e.g. energy audits, certification and labelling of energy efficiency performance) | <input type="checkbox"/> Technical measures (e.g. smart metering, provision of energy efficient products and services) |

- Education/capacity building (e.g. qualification programmes in the sector, trainings)

Which of the following building categories are targeted by your current energy policy measures?

For definitions of residential, commercial, institutional and industrial buildings and facilities, please consult the GCoM CRF Guidance Note on page 24, available at https://www.globalcovenantofmayors.org/wp-content/uploads/2019/04/Data-TWG_Reporting-Framework_GUIDANCE-NOTE.pdf. For social housing and historical buildings nationally applicable definitions should be used.

- Residential buildings
- Institutional buildings and facilities
- Social housing
- Commercial buildings and facilities
- Industrial buildings and facilities
- Historical buildings

What percentage of the energy consumed within your city administrative boundary comes from Renewable Energy Sources (RES)?

RES include: wind, solar (solar thermal and solar photovoltaic) and geothermal energy, ambient energy, tide, wave and other ocean energy, hydropower, biomass, landfill gas, sewage treatment plant gas, and biogas. In answering this question, 1) all energy consumption within the administrative boundary should be included, and 2) any green electricity certificates (i.e. green electricity produced outside the boundaries) have to be accounted for.

- No energy consumption from RES
- 20%-39%
- 60%-80%
- Not known
- Below 20%
- 40%-59%
- Over 80%

What percentage of energy generated within the administrative boundary comes from RES?

- No energy generation (from any sources)
- 20%-39%
- 60%-80%
- Not known
- Below 20%
- 40%-59%
- Over 80%

Which RES sources are currently used to generate energy within your city's administrative boundary?

'Ambient energy' means naturally occurring thermal energy and energy accumulated in the environment with constrained boundaries, which can be stored in the ambient air, excluding in exhaust air, or in surface or sewage water. For more information, please consult the Directive (EU) 2018/2001 of the European Parliament and of the Council of 11 December 2018 on the promotion of the use of energy from renewable sources (RED II).

- Wind
- Ambient energy
- Sustainable biomass
- Solar (solar thermal and solar photovoltaic)
- Tide, wave and other ocean energy
- Landfill gas, sewage treatment plant gas, and biogas
- Geothermal energy
- Hydropower

What non-renewable energy carriers are currently used to generate energy within your city's administrative boundary?

- Coal
- Gas
- Nuclear
- Other

Urban heat island effect mitigation is part of your energy policy. Which strategies are in place in your city to reduce the urban heat island effect and associated energy consumption?

For a compendium of strategies, you can consult <https://www.epa.gov/heatislands/heat-island-cooling-strategies>

- Increasing tree and vegetative cover
- Using cool pavements (either reflective or permeable)
- Installing green roofs
- Utilizing smart growth practices
- Installing cool - mainly reflective - roofs
- Installing evaporative cooling features (e.g., fountains, sprinklers, misting systems)

Current policies - transport

Which of the following areas does your city's current transport policy address?

- | | |
|---|---|
| <input type="checkbox"/> Cleaner/efficient vehicles | <input type="checkbox"/> Multi-modal hubs/integration between transport modes |
| <input type="checkbox"/> Clean buses | <input type="checkbox"/> Micromobility |
| <input type="checkbox"/> Electric vehicles (incl. infrastructure) | <input type="checkbox"/> Mobility as a Service (MaaS) |
| <input type="checkbox"/> Investment in metros and railways | <input type="checkbox"/> Improvement of logistics and urban freight transport |
| <input type="checkbox"/> Accessibility of public transport | <input type="checkbox"/> Road network optimisation aiming at emission reduction |
| <input type="checkbox"/> Modal shift to walking & cycling, incl. infrastructure | <input type="checkbox"/> Mixed use development and sprawl containment |
| <input type="checkbox"/> Car sharing | <input type="checkbox"/> Digitalisation and smart city solutions |
| <input type="checkbox"/> Ride-sharing/car-pooling initiatives | <input type="checkbox"/> Eco-driving (driving behaviour and style to reduce fuel consumption and emissions) |
| <input type="checkbox"/> Park and ride facilities | |

Which type of transport policy measures does your city apply?

Congestion pricing consists of charging of users of private vehicles in periods of peak demand in designated areas of the city.

- | | |
|--|--|
| <input type="checkbox"/> Technical measures (e.g. smart cards for public transport) | <input type="checkbox"/> Financial incentives and fiscal instruments (e.g. subsidies, taxes, congestion pricing schemes) |
| <input type="checkbox"/> Infrastructure measures (e.g. cycling lanes, recharging stations for electric cars) | <input type="checkbox"/> Public Private Partnerships |
| <input type="checkbox"/> Regulation based measures (e.g. vehicle access regulations like Low or Zero Emission Zones) | <input type="checkbox"/> Voluntary measures with stakeholders |
| <input type="checkbox"/> Planning solutions (e.g. SUMP or integrated land use and transport planning) | <input type="checkbox"/> Information/awareness raising (e.g. awareness campaigns) |

Does the issuing of [new] building permits require the constructor/promoter to provide charging stations for electric vehicles / e-bikes etc?

- | | |
|---|---|
| <input type="checkbox"/> Yes, for office buildings and/or education buildings | <input type="checkbox"/> Yes, for residential buildings |
| <input type="checkbox"/> Yes, for commercial/ entertainment buildings | <input type="checkbox"/> No |

Current policies - waste/wastewater management

Which of the following areas does your city's current waste/wastewater management policy address?

Examples.

- 'Promotion of the use of recycled and recyclable' include sustainably managed wood, hedges instead of fences.
- 'Litter prevention in public spaces and/or marine litter prevention" includes measures to fight street littering, measures aimed at reducing the use of unnecessary packaging, and bans on free plastic carrier bags.
- 'Industrial symbiosis between local businesses' includes all processes by which wastes or by-products of an industry or industrial process become the raw materials for another.
- 'Sustainable buildings' applies to either new builds or refurbishments – using recycled materials or innovative

designs that will increase the life-time of buildings and/or allow them to be more easily recycled in the future. - 'Circular economy business models ...' include setting up repair cafes, bicycle repair cooperatives, product leasing schemes, product char or exchange schemes.

- | | |
|--|--|
| <input type="checkbox"/> Use of recycled and recyclable, renewable and sustainable materials | <input type="checkbox"/> Sustainable buildings |
| <input type="checkbox"/> Management of biodegradable municipal waste | <input type="checkbox"/> Circular economy business models, aimed at encouraging the reuse, repair and/or recycling of products |
| <input type="checkbox"/> Municipal waste prevention | <input type="checkbox"/> Efficient thermal treatment/ landfill management |
| <input type="checkbox"/> Food waste prevention | <input type="checkbox"/> Efficient waste /landfill gas to energy / fuel |
| <input type="checkbox"/> Redirecting food surplus and food scraps | <input type="checkbox"/> Wastewater reuse |
| <input type="checkbox"/> Litter prevention in public spaces and/or marine litter prevention | <input type="checkbox"/> Stormwater management |
| <input type="checkbox"/> Industrial symbiosis between local businesses | |

Which type of waste/wastewater management policy measures does your city currently apply?

- Regulatory (e.g. bans or restrictions on single use or non-recyclable materials, regulations for durability, reparability and recycling in public procurement)
- Financial incentives and fiscal instruments (e.g. grants, loans, soft loans, taxes, subsidies, fees / incentives for volume based waste collection)
- Public Private Partnerships
- Information/awareness raising (e.g. litter prevention campaigns, recycling campaigns)
- Infrastructure measures (e.g. reprocessors, recycling centres, waste-to-energy facilities)
- Voluntary measures with stakeholders

Which of the following fractions are collected and/or sorted separately in your city?

- | | | | |
|-----------------------------------|--|--|--|
| <input type="checkbox"/> Plastics | <input type="checkbox"/> Cardboard and paper | <input type="checkbox"/> Food waste | <input type="checkbox"/> Waste electrical and electronic equipment |
| <input type="checkbox"/> Glass | <input type="checkbox"/> Metal | <input type="checkbox"/> Garden/Yard waste | <input type="checkbox"/> Hazardous waste |

Current policies - digitalisation & smart city elements

Which of the following elements does your city have in place to enable or incentivise digitalisation and smart city solutions intended to support the transition towards climate neutrality?

Definition

“Smart city”: urban area that uses various types of sensors to collect data electronically to provide information, that is used to manage assets and resources efficiently. This includes data collected from citizens, devices, and assets that are processed and analysed to monitor and manage traffic and transportation systems, power plants, water-supply networks, waste/wastewater management, law enforcement, information systems, schools, libraries, hospitals, and other community services.

Policies and strategies can be either standalone or part of a broader urban/innovation/sustainability strategy/policy. For "Innovation procurement strategies", please refer to Section 7.6 of the InfoKit.

- | | | |
|--|---|---|
| <input type="checkbox"/> Digitalisation or smart city strategies | <input type="checkbox"/> Innovation procurement strategies | <input type="checkbox"/> Use of Internet-of-Things technology |
| <input type="checkbox"/> Digitalisation or smart city policies | <input type="checkbox"/> Data governance strategy (national or local) | <input type="checkbox"/> Digital Twins |

- ICT infrastructure to enable smart city solutions Use of open standards by preference

Does your city run any smart city projects?

- Yes
 No
 Planned

How does your city obtain the expertise and skills to support the implementation of smart city solutions?

- Not known Work with external organisation/expert
 Available in-house Project based collaboration (e.g. with other cities, private or public entities)]

Does your city carry out impact assessments of the smart city solutions in place?

Please consider environmental impact assessments among others (economic, social etc.).

- Yes
 No

How has your city funded or financed the implementation of smart city solutions?

Useful definitions:

- PPP = a partnership between the public and private sectors to deliver services to the public.
- Blended finance = financial mechanisms that use public (or philanthropic) funds to attract additional private finance for projects.

- EU funding Public-private partnership (PPP) Blended finance
 National and/or regional funding Private investment City budget

Has your city worked with other stakeholders to implement smart city projects?

- No Private sector Other cities
 Academia/R&I institutions National/regional authorities NGOs and associations

Has your city used any open innovation approaches and methods to enable testing, piloting or demonstration of integrated smart-city solutions?

Useful definitions:

- Testbeds = technological testing, piloting and demo-infrastructure which are part of real-life systems (e.g. energy system).
- Living Labs = user-centred, open innovation ecosystems based on a systematic approach to user co-creation, integrating research and innovation processes in real life communities and settings.
- Regulatory sandboxes = frameworks which, by providing a structured context for experimentation, enable where appropriate in a real-world environment the testing of innovative technologies, products, services or approaches – at the moment especially in the context of digitalisation – for a limited time and in a limited part of a sector or area under regulatory supervision ensuring that appropriate safeguards are in place (<https://www.consilium.europa.eu/en/press/press-releases/2020/11/16/regulatory-sandboxes-and-experimentation-clauses-as-tools-for-better-regulation-council-adopts-conclusions/>)

For further information on open innovation approaches please refer to the InfoKit, Part II, Section 7.8, page 61.

- No Living labs Other

Testbeds Regulatory sandboxes

If other, please specify

50 character(s) maximum

Please provide additional information about the smart cities and digitalisation projects referred to in the previous questions.

1000 character(s) maximum

Please list specific strategies, policies, and projects related to your previous answers.

You may upload any supporting documentation here.

Measures

Is your city successfully implementing or has successfully implemented key climate change mitigation/GHG reduction measures since 2005 (included)?

Key measures could be those which stand out in terms of impact, innovation, resource-efficiency, cost-efficiency, time-efficiency, replicability.

- Yes
- No

How many key measures would you like to provide information about?

- 1
- 2
- 3
- 4
- 5

Measure 1

Measure (short description)

100 character(s) maximum

Sector(s) covered

“Cross-sectoral” can include relevant measures linked to digital transformation.

- Stationary energy
- Agriculture, Forestry, and Other Land Use (AFOLU)
- Cross-sectoral
- Transport
- Industrial Processes and Product Use (IPPU)

- Waste/wastewater Energy generation

Degree of implementation

- Fully implemented
- Under implementation
- Not started

Scale

- Smaller than district/neighbourhood scale
- District/neighbourhood scale
- City scale
- Greater than city scale

Description of achievements relevant to climate neutrality

500 character(s) maximum

This can include the estimated emission reduction, energy savings, or a description of other performance indicators specific to the measure

Measure 2

Measure (short description)

200 character(s) maximum

Sector(s) covered

“Cross-sectoral” can include relevant measures linked to digital transformation.

- Stationary energy Agriculture, Forestry, and Other Land Use (AFOLU) Cross-sectoral
- Transport Industrial Processes and Product Use (IPPU)
- Waste/wastewater Energy generation

Degree of implementation

- Fully implemented
- Under implementation
- Not started

Scale

- Smaller than district/neighbourhood scale
- District/neighbourhood scale
- City scale
- Greater than city scale

Description of achievements relevant to climate neutrality

500 character(s) maximum

This can include the estimated emission reduction, energy savings, or a description of other performance indicators specific to the measure

Measure 3

Measure (short description)

100 character(s) maximum

Sector(s) covered

“Cross-sectoral” can include relevant measures linked to digital transformation.

- Stationary energy Agriculture, Forestry, and Other Land Use (AFOLU) Cross-sectoral
- Transport Industrial Processes and Product Use (IPPU)
- Waste/wastewater Energy generation

Degree of implementation

- Fully implemented
- Under implementation
- Not started

Scale

- Smaller than district/neighbourhood scale
- District/neighbourhood scale
- City scale
- Greater than city scale

Description of achievements relevant to climate neutrality

500 character(s) maximum

This can include the estimated emission reduction, energy savings, or a description of other performance indicators specific to the measure

Measure 4

Measure (short description)

100 character(s) maximum

Sector(s) covered

- Stationary energy
- Agriculture, Forestry, and Other Land Use (AFOLU)
- Cross-sectoral
- Transport
- Industrial Processes and Product Use (IPPU)
- Waste/wastewater
- Energy generation

Degree of implementation

- Fully implemented
- Under implementation
- Not started

Scale

- Smaller than district/neighbourhood scale
- District/neighbourhood scale
- City scale
- Greater than city scale

Description of achievements relevant to climate neutrality

500 character(s) maximum

This can include the estimated emission reduction, energy savings, or a description of other performance indicators specific to the measure

Measure 5

Measure (short description)

100 character(s) maximum

Sector(s) covered

“Cross-sectoral” can include relevant measures linked to digital transformation.

- Stationary energy
- Agriculture, Forestry, and Other Land Use (AFOLU)
- Cross-sectoral
- Transport
- Industrial Processes and Product Use (IPPU)
- Waste/wastewater
- Energy generation

Degree of implementation

- Fully implemented
- Under implementation
- Not started

Scale

- Smaller than district/neighbourhood scale

- District/neighbourhood scale
- City scale
- Greater than city scale

Description of achievements relevant to climate neutrality

500 character(s) maximum

This can include the estimated emission reduction, energy savings, or a description of other performance indicators specific to the measure

R&I projects

Has your city participated in any European R&I project relevant to climate change mitigation/GHG emissions reduction since 2005 (included)?

You may also include relevant projects linked to digital transformation.

- Yes
- No

How many R&I projects would you like to provide information about?

- 1
- 2
- 3
- 4
- 5

R&I project 1

Project Name

100 character(s) maximum

Framework Programme

- Horizon 2020/Horizon Europe
- Connecting Europe Facility (CEF)
- JPI Urban Europe projects
- Framework Programme 7 (FP7)
- Digital Europe Programme (DIGITAL)
- Other
- Framework Programme 6 (FP6)
- Structural Funds
- Not applicable

How would you describe the role of your city in the initiative?

- Pilot cities
- Case studies
- Partners/followers
- Other

Briefly specify how this project has contributed or is expected to contribute to advancing towards the 2030 climate neutrality target

500 character(s) maximum

R&I project 2

Project Name

100 character(s) maximum

Framework Programme

- Horizon 2020/Horizon Europe Connecting Europe Facility (CEF) JPI Urban Europe projects
 Framework Programme 7 (FP7) Digital Europe Programme (DIGITAL) Other
 Framework Programme 6 (FP6) Structural Funds Not applicable

How would you describe the role of your city in the initiative?

- Pilot cities
 Case studies
 Partners/followers
 Other

Briefly specify how this project has contributed or is expected to contribute to advancing towards the 2030 climate neutrality target

500 character(s) maximum

R&I project 3

Project Name

100 character(s) maximum

Framework Programme

- Horizon 2020/Horizon Europe Connecting Europe Facility (CEF) JPI Urban Europe projects
 Framework Programme 7 (FP7) Digital Europe Programme (DIGITAL) Other
 Framework Programme 6 (FP6) Structural Funds Not applicable

How would you describe the role of your city in the initiative?

- Pilot cities
 Case studies

- Partners/followers
- Other

Briefly specify how this project has contributed or is expected to contribute to advancing towards the 2030 climate neutrality target

500 character(s) maximum

R&I project 4

Project Name

100 character(s) maximum

Framework Programme

- Horizon 2020/Horizon Europe
- Connecting Europe Facility (CEF)
- JPI Urban Europe projects
- Framework Programme 7 (FP7)
- Digital Europe Programme (DIGITAL)
- Other
- Framework Programme 6 (FP6)
- Structural Funds
- Not applicable

How would you describe the role of your city in the initiative?

- Pilot cities
- Case studies
- Partners/followers
- Other

Briefly specify how this project has contributed or is expected to contribute to advancing towards the 2030 climate neutrality target

500 character(s) maximum

R&I project 5

Project Name

100 character(s) maximum

Framework Programme

- Horizon 2020/Horizon Europe
- Connecting Europe Facility (CEF)
- JPI Urban Europe projects
- Framework Programme 7 (FP7)
- Digital Europe Programme (DIGITAL)
- Other
- Framework Programme 6 (FP6)
- Structural Funds
- Not applicable

How would you describe the role of your city in the initiative?

- Pilot cities
- Case studies
- Partners/followers
- Other

Briefly specify how this project has contributed or is expected to contribute to advancing towards the 2030 climate neutrality target

500 character(s) maximum

Initiatives

Has your city joined any other specific initiatives relevant to climate change mitigation/GHG emissions reduction since 2005 (included)?

With initiatives we refer for example to the Covenant of Mayors for Climate and Energy, the 100 Intelligent Cities Challenge or the City Science Initiative.

- Yes
- No

How many initiatives would you like to provide information about?

- 1
- 2
- 3
- 4
- 5

Initiative 1

Initiative Name

100 character(s) maximum

Examples of initiatives:

- Covenant of Mayors for Climate and Energy
- 100 Intelligent Cities Challenge/Digital Cities Challenge
- Urban Innovative Actions
- Smart Cities Marketplace initiatives
- EIT Climate KIC initiatives
- New European Bauhaus
- Green City Accord
- CIVITAS
- URBACT programme
- Affordable Housing Initiative
- City Science Initiative

- Living-in.eu Movement

If relevant to climate neutrality, also national initiatives can be mentioned here.

How would you describe the role of your city in the initiative?

Definition and examples for each term.

The city is considered:

- a “demonstrator”, if the city has served as proof of concept and has implemented any of the outcomes of the initiative (e.g. tools/tests/trials). Other similar phrases used to describe demonstrators are pilot cities, demo sites, case studies, early adopters, living labs, organisers, and leaders;
- a “replicator”, if the city has served to expand the applicability of a concept by implementing any of the outcomes of the initiative. Other similar words used to describe replicators are mentees, twin cities, companion cities, partner cities;
- an “observer”, if the city participated in a process concerning the outcomes of the initiative without any implemented action;
- other, if none of the definitions above describes the role of the city in the initiative.

Follower cities could fall under replicator or observer, depending on whether they implement any action or not.

- Demonstrator Observer Not known
 Replicator Other Not applicable

If other, please specify. If not applicable, please briefly explain

300 character(s) maximum

Briefly specify how this initiative has contributed or is expected to contribute to your city advancing towards the 2030 climate neutrality target

500 character(s) maximum

Initiative 2

Initiative Name

50 character(s) maximum

Examples of initiatives:

- Covenant of Mayors for Climate and Energy
- 100 Intelligent Cities Challenge/Digital Cities Challenge
- Urban Innovative Actions
- Smart Cities Marketplace initiatives
- EIT Climate KIC initiatives
- New European Bauhaus
- Green City Accord
- CIVITAS
- URBACT programme
- Affordable Housing Initiative

- City Science Initiative
- Living-in.eu Movement

If relevant to climate neutrality, also national initiatives can be mentioned here.

How would you describe the role of your city in the initiative?

Definition and examples for each term.

The city is considered:

- a “demonstrator”, if the city has served as proof of concept and has implemented any of the outcomes of the initiative (e.g. tools/tests/trials). Other similar phrases used to describe demonstrators are pilot cities, demo sites, case studies, early adopters, living labs, organisers, and leaders;
- a “replicator”, if the city has served to expand the applicability of a concept by implementing any of the outcomes of the initiative. Other similar words used to describe replicators are mentees, twin cities, companion cities, partner cities;
- an “observer”, if the city participated in a process concerning the outcomes of the initiative without any implemented action;
- other, if none of the definitions above describes the role of the city in the initiative.

Follower cities could fall under replicator or observer, depending on whether they implement any action or not.

- Demonstrator
 Observer
 Not known
 Replicator
 Other
 Not applicable

If other, please specify. If not applicable, please briefly explain

300 character(s) maximum

Briefly specify how this initiative has contributed or is expected to contribute to your city advancing towards the 2030 climate neutrality target

500 character(s) maximum

Initiative 3

Initiative Name

100 character(s) maximum

Examples of initiatives:

- Covenant of Mayors for Climate and Energy
- 100 Intelligent Cities Challenge/Digital Cities Challenge
- Urban Innovative Actions
- Smart Cities Marketplace initiatives
- EIT Climate KIC initiatives
- New European Bauhaus
- Green City Accord
- CIVITAS
- URBACT programme

- Affordable Housing Initiative
- City Science Initiative
- Living-in.eu Movement

If relevant to climate neutrality, also national initiatives can be mentioned here.

How would you describe the role of your city in the initiative?

Definition and examples for each term.

The city is considered:

- a “demonstrator”, if the city has served as proof of concept and has implemented any of the outcomes of the initiative (e.g. tools/tests/trials). Other similar phrases used to describe demonstrators are pilot cities, demo sites, case studies, early adopters, living labs, organisers, and leaders;
- a “replicator”, if the city has served to expand the applicability of a concept by implementing any of the outcomes of the initiative. Other similar words used to describe replicators are mentees, twin cities, companion cities, partner cities;
- an “observer”, if the city participated in a process concerning the outcomes of the initiative without any implemented action;
- other, if none of the definitions above describes the role of the city in the initiative.

Follower cities could fall under replicator or observer, depending on whether they implement any action or not.

- Demonstrator
 Observer
 Not known
 Replicator
 Other
 Not applicable

If other, please specify. If not applicable, please briefly explain

300 character(s) maximum

Briefly specify how this initiative has contributed or is expected to contribute to your city advancing towards the 2030 climate neutrality target

500 character(s) maximum

Initiative 4

Initiative Name

100 character(s) maximum

Examples of initiatives:

- Covenant of Mayors for Climate and Energy
- 100 Intelligent Cities Challenge/Digital Cities Challenge
- Urban Innovative Actions
- Smart Cities Marketplace initiatives
- EIT Climate KIC initiatives
- New European Bauhaus
- Green City Accord
- CIVITAS

- URBACT programme
- Affordable Housing Initiative
- City Science Initiative
- Living-in.eu Movement

If relevant to climate neutrality, also national initiatives can be mentioned here.

How would you describe the role of your city in the initiative?

Definition and examples for each term.

The city is considered:

- a “demonstrator”, if the city has served as proof of concept and has implemented any of the outcomes of the initiative (e.g. tools/tests/trials). Other similar phrases used to describe demonstrators are pilot cities, demo sites, case studies, early adopters, living labs, organisers, and leaders;
- a “replicator”, if the city has served to expand the applicability of a concept by implementing any of the outcomes of the initiative. Other similar words used to describe replicators are mentees, twin cities, companion cities, partner cities;
- an “observer”, if the city participated in a process concerning the outcomes of the initiative without any implemented action;
- other, if none of the definitions above describes the role of the city in the initiative.

Follow-up cities could fall under replicator or observer, depending on whether they implement any action or not.

- Demonstrator
 Observer
 Not known
 Replicator
 Other
 Not applicable

If other, please specify. If not applicable, please briefly explain

300 character(s) maximum

Briefly specify how this initiative has contributed or is expected to contribute to your city advancing towards the 2030 climate neutrality target

500 character(s) maximum

Initiative 5

Initiative Name

100 character(s) maximum

Examples of initiatives:

- Covenant of Mayors for Climate and Energy
- 100 Intelligent Cities Challenge/Digital Cities Challenge
- Urban Innovative Actions
- Smart Cities Marketplace initiatives
- EIT Climate KIC initiatives
- New European Bauhaus
- Green City Accord

- CIVITAS
- URBACT programme
- Affordable Housing Initiative
- City Science Initiative
- Living-in.eu Movement

If relevant to climate neutrality, also national initiatives can be mentioned here.

How would you describe the role of your city in the initiative?

Definition and examples for each term.

The city is considered:

- a “demonstrator”, if the city has served as proof of concept and has implemented any of the outcomes of the initiative (e.g. tools/tests/trials). Other similar phrases used to describe demonstrators are pilot cities, demo sites, case studies, early adopters, living labs, organisers, and leaders;
- a “replicator”, if the city has served to expand the applicability of a concept by implementing any of the outcomes of the initiative. Other similar words used to describe replicators are mentees, twin cities, companion cities, partner cities;
- an “observer”, if the city participated in a process concerning the outcomes of the initiative without any implemented action;
- other, if none of the definitions above describes the role of the city in the initiative.

Follower cities could fall under replicator or observer, depending on whether they implement any action or not.

- Demonstrator
 Observer
 Not known
 Replicator
 Other
 Not applicable

If other, please specify. If not applicable, please briefly explain

300 character(s) maximum

Briefly specify how this initiative has contributed or is expected to contribute to your city advancing towards the 2030 climate neutrality target

500 character(s) maximum

Awards

Has your city ever been nominated for or participated in any awards or competitions relevant to climate change mitigation/GHG emissions reduction since 2005 (included)?

- Yes
 No

How many awards would you like to provide information about?

- 1
 2

- 3
- 4
- 5

Award 1

Award name

100 character(s) maximum

Please indicate any awards or competitions, whether at EU or other level, whether you applied for them or were nominated.

Examples of awards and competitions relevant to climate change mitigation:

- Covenant of Mayors Awards
- CIVITAS Awards
- SUMP Award
- New European Bauhaus Prizes
- European Capital of Innovation Award
- European Green Capital Award
- European Green Leaf Award
- European Mobility Week Awards
- One Planet City Challenge
- European Energy Award Gold
- The Transformative Action Award
- European Green Cities Award
- World Smart City Awards
- CDP Europe Awards
- C40 Cities Bloomberg Philanthropies Awards
- Climate Star Award
- CityStar (RegioStars)

If relevant to climate neutrality, also national awards or competitions can be mentioned here.

Result

- Winner
- Finalist
- Participant

Award 2

Award name

100 character(s) maximum

Please indicate any awards or competitions, whether at EU or other level, whether you applied for them or were nominated.

Examples of awards and competitions relevant to climate change mitigation:

- Covenant of Mayors Awards
- CIVITAS Awards
- SUMP Award

- New European Bauhaus Prizes
- European Capital of Innovation Award
- European Green Capital Award
- European Green Leaf Award
- European Mobility Week Awards
- One Planet City Challenge
- European Energy Award Gold
- The Transformative Action Award
- European Green Cities Award
- World Smart City Awards
- CDP Europe Awards
- C40 Cities Bloomberg Philanthropies Awards
- Climate Star Award
- CityStar (RegioStars)

If relevant to climate neutrality, also national awards or competitions can be mentioned here.

Result

- Winner
- Finalist
- Participant

Award 3

Award name

100 character(s) maximum

Please indicate any awards or competitions, whether at EU or other level, whether you applied for them or were nominated.

Examples of awards and competitions relevant to climate change mitigation:

- Covenant of Mayors Awards
- CIVITAS Awards
- SUMP Award
- New European Bauhaus Prizes
- European Capital of Innovation Award
- European Green Capital Award
- European Green Leaf Award
- European Mobility Week Awards
- One Planet City Challenge
- European Energy Award Gold
- The Transformative Action Award
- European Green Cities Award
- World Smart City Awards
- CDP Europe Awards
- C40 Cities Bloomberg Philanthropies Awards
- Climate Star Award

- CityStar (RegioStars)

If relevant to climate neutrality, also national awards or competitions can be mentioned here.

Result

- Winner
- Finalist
- Participant

Award 4

Award name

100 character(s) maximum

Please indicate any awards or competitions, whether at EU or other level, whether you applied for them or were nominated.

Examples of awards and competitions relevant to climate change mitigation:

- Covenant of Mayors Awards
- CIVITAS Awards
- SUMP Award
- New European Bauhaus Prizes
- European Capital of Innovation Award
- European Green Capital Award
- European Green Leaf Award
- European Mobility Week Awards
- One Planet City Challenge
- European Energy Award Gold
- The Transformative Action Award
- European Green Cities Award
- World Smart City Awards
- CDP Europe Awards
- C40 Cities Bloomberg Philanthropies Awards
- Climate Star Award
- CityStar (RegioStars)

If relevant to climate neutrality, also national awards or competitions can be mentioned here.

Result

- Winner
- Finalist
- Participant

Award 5

Award name

100 character(s) maximum

Please indicate any awards or competitions, whether at EU or other level, whether you applied for them or were nominated.

Examples of awards and competitions relevant to climate change mitigation:

- Covenant of Mayors Awards
- CIVITAS Awards
- SUMP Award
- New European Bauhaus Prizes
- European Capital of Innovation Award
- European Green Capital Award
- European Green Leaf Award
- European Mobility Week Awards
- One Planet City Challenge
- European Energy Award Gold
- The Transformative Action Award
- European Green Cities Award
- World Smart City Awards
- CDP Europe Awards
- C40 Cities Bloomberg Philanthropies Awards
- Climate Star Award
- CityStar (RegioStars)

If relevant to climate neutrality, also national awards or competitions can be mentioned here.

Result

- Winner
- Finalist
- Participant

Current policies - co-benefits and adverse impacts

Have there been attempts in your city to assess the possible co-benefits/adverse impacts generated by local scale climate mitigation policies/actions and/or vice versa?

- Yes, for all climate policies/actions
- Yes, for most climate policies/actions
- Yes, for some climate policies/actions
- Preparing to perform such assessments over the next year
- Intending to perform such assessments in the next 2 years
- Not intending to perform such assessments
- I don't know

If yes, which of the following co-benefits or adverse impacts generated by local scale climate mitigation policies have been evaluated?

Assessing energy and transport poverty means to measure the amount of money spent on energy / transport and selecting indicators / thresholds to define the onset of a state or condition in which citizens (individuals or communities) lack essential resources.

Economic

- Job creation
- Revenue generation
- Costs
- Energy security
- Business/technological innovation
- Labour productivity
- Labour conditions
- Economic production
- Natural resource depletion
- Congestion
- Disruption of energy, transport, water and communications networks
- Economic impact of disasters

Social

- Water security
- Food security
- Mobility and access
- Road safety
- Energy poverty
- Transport poverty
- Security/protection for poor/vulnerable populations
- Social inclusion, equality and justice
- Transparency and accountability
- Education and public awareness
- Number of households and businesses forced from homes/places of work

Public Health

- Physical health
- Mental wellbeing/quality of life
- Air quality
- Preparedness for health service delivery
- Health impacts from extreme heat or cold weather
- Disaster/disease/contamination-related health impacts
- Premature deaths
- Health costs

Environmental

- Resilience to climate change/adaptation
- Water/soil quality
- Noise pollution
- Light pollution
- Green space coverage and quality
- Biodiversity and ecosystem services

In your previous answer, you indicated that your city is evaluating specific social co-benefits and adverse impacts. Is your city specifically addressing any of these social aspects in its territory?

This question is linked to the following answer options in the previous question: energy poverty; transport poverty; security/protection for poor/vulnerable populations; social inclusion, equality and justice; number of households and businesses forced from homes/places of work.

- Yes
- No

If yes, please provide further details or examples.

1500 character(s) maximum

Please briefly describe any alleviation measures your city has put in place.

Ambition for climate neutrality

This section gives you the opportunity to articulate your city's motivation for joining the Cities Mission and in particular the climate neutrality ambition it intends to pursue as part of the Mission. You are invited to describe your city's initial vision on how it can accelerate its plans,

if necessary, to close the gap to be climate neutral in 2030 and in particular how it plans to do so in cooperation with its citizens, regional/national stakeholders, and the EU.

It is well understood that most cities are at an early stage of determining a vision on becoming climate neutral and that no detailed analysis or planning might have been undertaken regarding how to accelerate the transition to reach climate neutrality by 2030. As outlined also in the Info Kit for cities, these details are expected to be set out later, in the process of developing the Climate City Contract in the next phase of the Cities Mission, with assistance from the Mission Platform.

Questions in this section address your city's 2030 climate neutrality target, but they do not assume or require that this target has been officially adopted. Rather, they seek to understand the aspiration that your city wants to work towards as part of the Cities Mission.

You have the opportunity to describe existing (i.e. officially adopted/declared) targets and plans in other sections of the questionnaire.

Your city's overall vision

Please describe your city's vision on how it will achieve climate neutrality by 2030, i.e. how the city plans to accelerate the transition and close the gap to (net-) zero GHG emissions by 2030

4000 character(s) maximum

In answering this question, please consider the following elements:

- Overall vision and motivation;
- Sector-specific vision and key measures;
- Integration and horizontal aspects.

Cities that are located in countries already with Association Agreements to the Horizon Europe programme or in the process of negotiating such Agreements should explain here how they will be able to meet the objectives of the Mission without support by from other EU programmes.

Your city's ambition

Is your city aiming at climate neutrality by reaching absolute-zero or net-zero GHG emissions by 2030?

Definitions:

- Absolute-zero GHG emissions: 100% of greenhouse gas emissions are avoided, i.e. the city no longer emits or causes any greenhouse gases directly, or indirectly through the consumption of grid-supplied energy in the sectors /scopes covered by the climate neutrality definition of the Cities Mission.

- Net-zero GHG emissions: the balance between direct reduction and offsetting of residual emissions is zero.

Both absolute-zero and net-zero GHG emissions are in line with the definition of climate neutrality applied for the Cities Mission. See InfoKit, Part I, Chapter 3, page 10 for more information.

- Absolute-zero GHG emissions

- Net-zero GHG emissions
- To be determined in the next phase of the Mission

If "net-zero GHG emissions", please specify the estimated magnitude of residual emissions by 2030

Residual emissions: GHG emissions which are very difficult or disproportionately costly to mitigate by 2030

- 0-10 %
- 11-20 %
- Over 20%
- To be determined in the next phase of the Mission

If "net-zero GHG emissions", in which sectors do you expect to have residual emissions which cannot be fully abated by 2030?

- Not yet known
- Transport
- Agriculture, Forestry, and Other Land Use (AFOLU)
- Energy generation
- Stationary energy
- Waste/wastewater
- Industrial Processes and Product Use (IPPU)

If "net-zero GHG emissions", does your city already have a strategy or vision for how to address residual emissions?

Within the Mission, there will be two ways for a city to compensate residual emissions in order to reach net-zero: carbon sinks and carbon credits. See InfoKit, Part I, Section 3.2, page 13 for more information.

- Yes, we have a clear strategy and can describe it
- Yes, we have a vision and can describe it
- No, further analysis and/or support in establishing the estimated level of residual emissions is required

If yes, you may describe your strategy or vision

600 character(s) maximum

Does your city aim to achieve climate neutrality even before 2030?

- Yes
- No

If yes, please select the target year

- 2021
- 2022
- 2023
- 2024
- 2025
- 2026
- 2027
- 2028
- 2029

Future picture - closing the gap

Which areas is your city likely to address in order to abate GHG emissions?

Stationary energy (excl. public lighting)

- Nearly Zero Energy Buildings (NZEBS) (new buildings)
- Nearly Zero Energy Buildings (NZEBS) (renovation of existing buildings)
- Building electrification
- Energy efficient electrical appliances
- Integrating RES systems into the building
- On-site and nearby renewable energy generation
- Building Automation and Control Systems (BACS) / Building Energy Management Systems (BEMS)
- Nearly Zero / Positive Energy Districts
- Digitalisation and smart city solutions
- Local heat/cold storage
- Behavioural changes
- Positive Energy Buildings
- Energy renovation/retrofit of existing buildings (below NZEB level)
- Citizen and renewable energy communities
- Demand response

Public lighting

- Energy efficiency
- Integrated renewable energy
- Information and Communication Technologies

Transport

- Cleaner/efficient vehicles
- Clean buses
- Electric vehicles (incl. infrastructure)
- Investment in metros and railways
- Accessibility of public transport
- Modal shift to walking & cycling, incl. infrastructure
- Multi-modal hubs/integration between transport modes
- Micromobility
- Mobility as a Service (MaaS)
- Low or Zero Emission Zones
- Congestion pricing schemes
- Improvement of logistics and urban freight transport
- Road network optimisation aiming at emission reduction
- Mixed use development and sprawl containment
- Digitalisation and smart city solutions
- Eco-driving (driving behaviour and style to reduce fuel consumption and emissions)
- Car sharing
- Ride-sharing/car pooling initiatives
- Park and ride facilities

Waste

- Use of recycled and recyclable, renewable and sustainable materials
- Management of biodegradable municipal waste
- Municipal waste prevention
- Food waste prevention
- Redirecting food surplus and food scraps
-
- Circular economy business models, aimed at encouraging the reuse, repair and/or recycling of products
- Other innovative measures promoting the circular economy concept
- Efficient thermal treatment/ landfill management
- Efficient waste /landfill gas to energy / fuel
- Waste heat recovery
- Upgrade of wastewater treatment

Litter prevention in public spaces and/or marine litter prevention

- Anaerobic digestion
- Industrial symbiosis between local businesses
- Sustainable buildings
- Wastewater reuse
- Stormwater management

Renewable energy generation

- Wind power
- Solar thermal
- Virtual power plants
- Photovoltaic
- Geothermal energy
- Ambient energy
- Tide, wave and other ocean energy
- Hydropower
- Efficiency of existing co-generation systems
- Biomass power plant
- Biomass district heating/cooling plant
- Biomass district heating/cooling network (new, expansion, refurbishment)
- Energy production from waste/wastewater
- Digitalisation and smart city solutions

Other

- Energy efficiency in industrial processes
- Renewable energy in industrial processes
- Energy efficiency in agriculture and forestry processes
- Renewable energy in agriculture and forestry processes
- Information and Communication Technologies in Agriculture, Forestry, and Other Land Use (AFOLU) / Industrial Processes and Product Use (IPPU)
- Natural carbon sinks (e.g., tree planting)
- Hydrogen technologies
- Urban heat island effect mitigation
- Mixed-use development and sprawl containment
- Urban regeneration

What policy instruments does your city plan to use to support the necessary actions in the areas selected above?

If no areas are selected in any sector(s), please select "Not applicable".

Stationary energy (excl. public lighting)

- Awareness raising/training
- Energy management
- Energy certification /labelling
- Energy suppliers obligations
- Energy/carbon taxes
- Grants and subsidies
- Third party financing, Public Private Partnerships
- Public procurement
- Building standards
- Energy audits
- Land use planning regulation
- Other
- Not applicable

If other, please specify

100 character(s) maximum

Public lighting

- Energy management
- Third party financing, Public Private Partnerships
- Other
- Energy suppliers obligations
- Public procurement
- Not applicable

If other, please specify

100 character(s) maximum

Transport

- Awareness raising/training
- Taxation
- Voluntary agreements with stakeholders
- Multimodal ticketing and charging
- Transport access regulations
- Other
- Grants and subsidies
- Public procurement
- Not applicable
- Third party financing, Public Private Partnerships
- Land use planning regulation
- Road pricing
- Sustainable urban mobility planning regulation

If other, please specify

100 character(s) maximum

Waste/wastewater

- Awareness raising/training
- Codes or regulations for hazardous chemicals
- Building standards
- Fees / incentives for volume based waste collection
- Grants and subsidies
- Recycling targets for household or municipal waste
- Third party financing, Public Private Partnerships
- Voluntary agreements with stakeholders
- Bans or restrictions on single use or non-recyclable materials
- Other
- Bans or restrictions on the discharge of untreated sewage
- Not applicable
- Regulations for durability, reparability and recycling in public procurement

If other, please specify

100 character(s) maximum

Renewable energy generation

- Awareness raising/training
- Third party financing, Public Private Partnerships
- Land use planning regulation

- Energy suppliers obligations
- Public procurement
- Other
- Grants and subsidies
- Building standards
- Not applicable

If other, please specify

100 character(s) maximum

Other

- Awareness raising /training
- Energy performance standards
- Third party financing, Public Private Partnerships
- Not applicable
- Energy management
- Energy/carbon taxes
- Land use planning regulation
- Other
- Energy certification /labelling
- Grants and subsidies
- Voluntary agreements with stakeholders

If other, please specify

100 character(s) maximum

List up to 3 interventions per sector that could be scaled up by 2030. Leave blank if there are no scalable interventions in place or if you want to describe less than 3.

Stationary energy (excluding public lighting)

Intervention 1

500 character(s) maximum

Intervention 2

500 character(s) maximum

Intervention 3

500 character(s) maximum

Public lighting

Intervention 1

500 character(s) maximum

Intervention 2

500 character(s) maximum

Intervention 3

500 character(s) maximum

Transport

Intervention 1

500 character(s) maximum

Intervention 2

500 character(s) maximum

Intervention 3

500 character(s) maximum

Waste

Intervention 1

500 character(s) maximum

Intervention 2

500 character(s) maximum

Intervention 3

500 character(s) maximum

Renewable energy generation

This could include the extension of installed RES capacity

Intervention 1

500 character(s) maximum

Intervention 2

500 character(s) maximum

Intervention 3

500 character(s) maximum

Other

Intervention 1

500 character(s) maximum

Intervention 2

500 character(s) maximum

Intervention 3

500 character(s) maximum

Partnerships

Collaboration with other levels of government, citizens and different stakeholders will be critical for accelerating the transition to 2030 climate neutrality. The questions in this section inquire about your city's existing partnerships and how they are contributing to advance your city's climate policy development and implementation.

We would also like to learn if and how your city is engaging citizens in the design and implementation of climate policies. You can further describe how your city collaborates and shares experiences across city and national boundaries.

This information will be useful to help us and the Mission Platform identify best practices and what future support needs to be put together for cities in the Mission.

... with stakeholders

Who are the main stakeholders currently involved in formulating and implementing climate change mitigation/Greenhouse Gas (GHG) emissions reduction policies in your city?

- | | | |
|--|---|---|
| <input type="checkbox"/> National government | <input type="checkbox"/> Financial institutions | <input type="checkbox"/> Citizens |
| <input type="checkbox"/> Regional government | <input type="checkbox"/> Trade unions | <input type="checkbox"/> Vulnerable groups |
| <input type="checkbox"/> Neighboring local/regional government | <input type="checkbox"/> NGOs and associations | <input type="checkbox"/> Youth & education sector |
| <input type="checkbox"/> Academia / Research & Innovation (R&I) institutions | <input type="checkbox"/> Utilities | <input type="checkbox"/> Other |
| <input type="checkbox"/> Private sector | <input type="checkbox"/> Citizen and renewable energy communities | |

If other, please specify

100 character(s) maximum

... with other levels of government

Which types of support does your city currently receive from other levels of government (regional /national) to formulate and implement its climate change mitigation policies?

- | | |
|--|--|
| <input type="checkbox"/> Policy and regulation formulation | <input type="checkbox"/> Technical and strategic assistance |
| <input type="checkbox"/> Capacity building | <input type="checkbox"/> Financial support and opportunities for projects' development and implementation; |
| <input type="checkbox"/> Financial advisory services and resource mobilization | <input type="checkbox"/> Assistance in dissemination, outreach, awareness raising initiatives and effective communication about climate impacts; |
| <input type="checkbox"/> Access to tools and skills | <input type="checkbox"/> Regular and systemic reporting |
| <input type="checkbox"/> Coordination | |

Which types of support from other levels of government (regional/national) does your city consider most important to achieve the Mission target (select up to 3)?

at most 3 choice(s)

This question inquires about the support needed, not the level of support expected. Please flag the 3 priority aspects which would help most in the transition to climate neutrality.

- | | |
|--|---|
| <input type="checkbox"/> Policy and regulation formulation | <input type="checkbox"/> Technical and strategic assistance |
| <input type="checkbox"/> Capacity building | <input type="checkbox"/> |

- Financial advisory services and resource mobilization
- Access to tools and skills
- Coordination
- Financial support and opportunities for projects' development and implementation
- Assistance in dissemination, outreach, awareness raising initiatives and effective communication about climate impacts
- Regular and systemic reporting

Please briefly describe the most relevant regional and national activities and programmes that are currently helping your city accelerate its transition to achieve climate neutrality by 2030

1500 character(s) maximum

... with the private sector

Please describe any partnerships that your city has with the private sector and how they are conducive to reaching the climate neutrality target by 2030

800 character(s) maximum

In which ways (if applicable) does your city collaborate with the private sector to advance its climate policy agenda?

- Private sector provides financial and insurance services in the transition to climate neutrality, including project preparation financing
- Public Private Partnerships for climate neutral infrastructure and services
- Crowdfunding from companies and SMEs in climate neutral infrastructure and services
- Climate neutrality in business operation and improving value chains
- Promoting start-ups and green jobs creation
- Establishment of net-zero goals
- Research & Innovation, new technologies

... with citizens

What kinds of citizen engagement activities does your city have in place?

Deliberative practices include citizens' assemblies, polls and surveys.

Informative practices and awareness-raising events include workshops, information points, open-door days, exhibitions, fairs, guided visits, energy weeks, car free days, local clean-ups, etc.

Educational activities and programmes include seminars, school competitions, outreach activities

- Deliberative practices to judge options or co-create plans and/or actions
- Informative practices and awareness-raising events
- Participatory budgeting to prioritise actions
- Participatory urban planning
- Ad-hoc co-creation engagement practices
- Educational activities and programmes
- Other
- None

If other, please specify

100 character(s) maximum

Does your city have existing programmes/projects that engage citizens in climate change mitigation /GHG emissions reduction policies?

- Yes
- No

If yes, please briefly describe the most important programmes/projects

1500 character(s) maximum

Please describe ongoing programmes/projects and how they engage citizens. If applicable, please also briefly describe the main inputs from citizens, the main outcomes and how they were taken up (or are planned to be taken up) in policy, and the inclusion of diverse groups (incl. vulnerable groups). Finally, please comment on whether these programmes/projects could be scaled up at other levels (e.g., lessons learnt that could be applicable elsewhere or replicated at other governance levels (national, regional, etc.)).

What actions does your city have in place targeting behavioural change of citizens to adopt more sustainable lifestyles or a more active participation in achieving climate change mitigation/GHG emissions reduction goals?

Examples of behavioural changes:

- Optimising thermostat settings of heating (e.g. leaving room temperatures at the same level, reducing temperature at night/if absent)
- Less private car use, switching to public transport, active (cycling or walking) bike or sharing mobility
- Reducing overconsumption and favouring ethical consumption of goods
- Reducing and manage sorting household waste

Please note that Scope 3 emissions with the exception of waste/wastewater lie outside the Mission's definition of climate neutrality by 2030. For further information please consult the InfoKit, Part II, Section 2.4, page 21.

- | | | |
|--|---|---------------------------------|
| <input type="checkbox"/> Awareness-raising campaigns | <input type="checkbox"/> One stop shops | <input type="checkbox"/> Nudges |
| <input type="checkbox"/> Incentives/disincentives | <input type="checkbox"/> Workshops | <input type="checkbox"/> Other |
| <input type="checkbox"/> Bans and mandates | <input type="checkbox"/> Infopoints | <input type="checkbox"/> None |

if other, please specify

100 character(s) maximum

... with other cities

Does your city exchange or collaborate with other cities on aspects related to the climate neutrality transition?

- Yes, we are very active, share our experience and engage with other cities regularly, nationally and internationally
-

Yes, we are member of relevant networks and programmes and participate in relevant events to learn from others

- Yes, we exchange and collaborate with cities in our region
- We are currently looking for opportunities to exchange and learn from other cities like us
- No, we are not yet collaborating or exchanging on this topic

If yes, please specify

800 character(s) maximum

This could involve membership in city networks with this thematic focus focusing also on climate change mitigation; participation in peer exchange programmes; collaboration in related projects; joint development of policies /programmes etc.

Please rate the intensity of your current level of cooperation with neighbouring cities and surrounding Local Administrative Units (LAUs) in areas linked to climate change mitigation/GHG emissions reduction.

	0 Not applicable	1 No cooperation	2 Weak	3 Fair	4 Significant	5 Strong /formalised
Level	<input type="radio"/>					

If not applicable please explain

200 character(s) maximum

... with academia or Research & Innovation institutions

Please describe existing partnerships with research centres / academia and how they are conducive to effective climate actions and possibly contribute to climate neutrality

1500 character(s) maximum

Capital needs and investment strategies

The questions in this section explore your city’s current capability to estimate the capital requirements for investment and the funding and financing needed for the transition towards climate neutrality. Cities are not expected to have an investment plan prepared at this stage. An investment plan that specifically addresses actions to reach climate neutrality by 2030 will be an integral part of the Climate City Contract process, which will be developed with assistance from the Mission Platform.

Using the questions in this section, you are encouraged to reflect on your city's capital/finance capabilities, experience and investment readiness for climate neutral actions.

As is the case for all other parts of the questionnaire except the Eligibility section, answers will not be used as a basis for excluding cities from consideration; rather, they are intended to help us get a better understanding of city-specific gaps and needs, particularly relating to this important dimension.

Estimated volume

Has your city estimated the capital requirements for investment and funding / financing climate neutral actions?

Please note that the capital requirements for your city to reach climate neutrality by 2030 will only need to be clarified in the next phase. Targeted assistance will be provided to the Mission Cities including for the development of an investment strategy.

- No, the capital requirements will be assessed in the next phase;
- Yes, we can provide a rough estimate
- Yes, we have a detailed assessment

If yes, please provide the estimate (in EUR)

Only numerical input accepted

Source

For the estimate provided above, please provide a breakdown per funding/financing source in the section below (in %)

Own funds

Allows percent values from 0 to 100 without the % sign. It can be used with up to 2 decimal places or without any.
Valid values range: 0.00 - 100.00

Regional, national, EU funds and financing

Allows percent values from 0 to 100 without the % sign. It can be used with up to 2 decimal places or without any.
Valid values range: 0.00 - 100.00

Private financing

Allows percent values from 0 to 100 without the % sign. It can be used with up to 2 decimal places or without any.
Valid values range: 0.00 - 100.00

Other

Allows percent values from 0 to 100 without the % sign. It can be used with up to 2 decimal places or without any.
Valid values range: 0.00 - 100.00

If available, you may upload documentation that supports the figures provided in the previous questions

Financing & Investment readiness

Does your city have an investment strategy for the current climate action plan(s)?

This question refers to current climate action. An investment strategy for climate neutrality might be achieved through multiple sectoral plans, including mobility plans, low/zero carbon buildings, energy efficiency in public works, among others, which can be aligned or scaled up to reach climate neutrality. Please choose the most advanced answer option that best describes your current situation.

- We are just getting started with estimating investment needs
- We have experience in financing a few specific projects
- We have several investment strategies at the sectoral level
- We have a fully integrated investment strategy / programme to deliver climate neutrality

Has your city launched investment initiatives and projects in the past that involve citizens, private capital investors and technology/service providers?

This question explores your city's experience with complex projects involving multiple stakeholders, irrespective of the sector concerned. A city might have initiated projects and implemented them with the support of the national or regional governments, involving stakeholder consultations and moving forward independently with investments. More advanced projects can involve multiple operators and financiers, as well as complex stakeholder management. Please choose the most advanced answer option that best describes your current situation and experience to date.

- No
- We have done it with assistance from the regional/national government
- We have developed relatively small projects involving a few stakeholders
- We have developed larger projects, involving complex financial structures and multiple stakeholders

Has your city assessed the potential of the capital markets to provide climate funding and investment, including local, regional, national, and international sources and has your city made steps towards establishing an investor community?

This question concerns your experience in involving private sector operators, investors or financiers. An investor community is the group of people, organisations, financial institutions (banks, insurers, pension funds, etc), sponsors and other stakeholders that the city can tap into regarding their interest in the provision of a specific service or infrastructure, including financing and operation. It is not a fixed entity, but a concept that encompasses the potential partners that provide financing for project implementation. Please chose the answer option that best describes your current situation.

- No
- We have some experience in working with private capital investors in small projects
- We have some experience in using financial products in combination with national/EU grants and subsidies
- We understand well the uses of multiple financial products and different investor audiences and have accumulated experience in multiple projects
- We have an investor relations office

For any answer except "no", please briefly describe how your city has engaged with these actors, whether individually or as a whole

1500 character(s) maximum

In your answer please reflect on your city's capital/finance capabilities and approach and whether you have access to and make use of finance advisory services/expertise specifically for climate change mitigation/greenhouse gas emissions reduction measures.

Is your city actively working with established investment/finance partners to build an investor-ready pipeline of projects contributing to climate neutrality?

A 'finance-ready' pipeline of projects refers to a selection of measures or actions with detailed analysis for technical and financial implementation, considering sponsors and stakeholders, with, for example refined cost estimates, paybacks periods, detailed benefits etc.

- No
- We are just starting with a climate action plan
- We do have a pipeline of projects that are ready for investment
- We do have a pipeline of projects that are ready for investment and are actively working with investment /finance partners in building new pipelines

Has your city used innovative financing instruments?

Examples include crowdfunding schemes, which are financial vehicles where individuals have an option to own or use a common resource, with a benefit, or green bonds, which are debt instruments that are traded in capital markets. Social Impact Bonds (or SIBs) are a results-based form of social impact investment, whereby private investors provide capital to launch or expand innovative social services that deliver a public good. See InfoKit, Part II, Chapter 9 for further information.

- | | |
|---|---|
| <input type="checkbox"/> No | <input type="checkbox"/> Energy performance contracting |
| <input type="checkbox"/> We are analysing options for implementing innovative financing instruments | <input type="checkbox"/> Social impact bonds |
| <input type="checkbox"/> Crowdfunding schemes | <input type="checkbox"/> Other innovative financing instruments |
| <input type="checkbox"/> Green bonds | |

If you selected other innovative financing schemes, please specify

600 character(s) maximum

Governance

The questions in this section inquire about your city’s current administrative structure and how it addresses the local climate action agenda. This section provides the opportunity to describe governance structures (planned or in place) and the human resources available to pursue your city’s ambition as part of the Mission.

The second set of questions in this section refers to the systems your city may have put in place to collect relevant data and ensure effective monitoring and reporting on climate action.

This information will be useful to help us and the Mission Platform identify best practices and what future support needs to be put together for cities in the Mission.

Overall capacity and organisation

Please indicate the fields in which your city has the legal powers to act/make policy decisions

- | | | | |
|---|--|--|--|
| <input type="checkbox"/> Buildings & Construction | <input type="checkbox"/> Waste/wastewater management | <input type="checkbox"/> Water Resource Management | <input type="checkbox"/> Public health |
| <input type="checkbox"/> Economic development | <input type="checkbox"/> Industrial emissions | <input type="checkbox"/> Air quality | <input type="checkbox"/> Other |
| <input type="checkbox"/> Energy demand in buildings | <input type="checkbox"/> Agricultural emissions | <input type="checkbox"/> Environment | |
| <input type="checkbox"/> Energy supply | <input type="checkbox"/> Urban land use | <input type="checkbox"/> Disaster risk | |
| <input type="checkbox"/> Transport | <input type="checkbox"/> Green spaces / Green infrastructure | <input type="checkbox"/> Finance & Investment | |

If other, please specify

50 character(s) maximum

Please describe your current climate governance, including horizontal oversight of climate mitigation policies

800 character(s) maximum

Please describe the entity/entities with primary responsibilities for climate mitigation policies and cross-sectoral coordination of the climate agenda and the working modality. This could include a dedicated department/unit, a committee, a dedicated person, external body/person or an arms-length organisation working in close collaboration with the municipality.

Please specify for how long the selected governance structure or allocation of responsibilities has been in place

- Less than 1 year
- Less than 5 years
- For longer than 5 years

In the event that your city is selected for the Mission and develops a Climate City Contract, is your city considering changing/adapting the current governance structure?

The Cities Mission will have as its central feature the “Climate City Contracts”. Each participating city will develop and implement such a contract. While not legally binding, these contracts will constitute a clear and highly visible political commitment not just to the Commission and the national and regional authorities, but also to their citizens. They will set out plans for the city to achieve climate neutrality by 2030 and they will include an investment plan. Climate City Contracts will be co-created with local stakeholders and citizens, with the help of a Mission Platform. The Mission Platform will provide the necessary technical, regulatory and financial assistance to cities.

- Yes
- No

If yes, please describe the desired change, and indicate why this would be necessary

600 character(s) maximum

Staff capacity and skills

Do you think that there is sufficient staff available to design and implement a Climate City Contract with the help of the Mission Platform?

- Yes
- We are undertaking steps to allocate additional staff
- No
- Not known

Is your city staff currently sufficiently trained and skilled to design and implement climate neutrality policies?

"Critical" sectors are those with the highest mitigation potential (i.e., account for the highest share of emissions)

- Yes, at cross-sectoral level and in all sectors relevant to climate neutrality
- Yes, in all sectors relevant to climate neutrality
- Yes, in the sectors relevant to climate neutrality that are critical to the city
- Yes, in some sectors relevant to climate neutrality
- No
- Not known

In which specific aspects would your administration/staff benefit the most in terms of capacity-building?

at most 5 choice(s)

- Skills: Design of mitigation actions
- Skills: Project development through pre-feasibility to finance-ready
- Skills: Implementation and project management
- Skills: Monitoring, Reporting and Verification
- Skills: Investment planning
- Skills: Anticipation/foresight
- Skills: Communication
- Skills: Computing and data analysis

- Knowledge: General knowledge on climate neutrality
- Knowledge: Specific knowledge on climate neutrality
- Knowledge: Cross-sectoral knowledge on climate neutrality
- Knowledge: Knowledge on climate finance
- Knowledge: Knowledge on digitalisation and smart city solutions
- Innovation: Capacity for applying knowledge in practice
- Innovation: Capacity for procuring R&I solutions/innovation
- Innovation: Capacity for implementing R&I solutions
- Innovation: Capacity to adapt to new situations
- Innovation: Capacity for generating new ideas

Could your city administration offer support or training to other cities with respect to the design and implementation of climate neutrality policies?

- Yes
- No

Data Collection/Reporting

Is your city regularly collecting/reporting data on the areas and/or sectors indicated in the table below?

	Yes, covering the entire city and nothing else	Yes, covering only parts of the city	Yes, covering only municipal buildings and facilities /operations	Yes, covering the whole city and adjoining areas	No
Energy (generation and consumption)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Transport (incl. vehicle km travelled, mode share, infrastructure)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Waste/wastewater (generation, collection and treatment)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Energy

If you selected "Energy (generation and consumption)", please specify the typical frequency of the data collection/reporting

- At least annually
- At least every 2 years
- At least every 4 years
- Less frequently than every 4 years

If you selected "Energy (generation and consumption)", please specify the year of the latest data collection/report

- Before 2010
- 2010
- 2011
- 2012
- 2013
- 2014
- 2015
- 2016
- 2017
- 2018
- 2019
- 2020
- 2021

If you selected "Energy (generation and consumption)", please specify which sectors/sources are covered

- | | | |
|---|--|---|
| <input type="checkbox"/> Residential buildings | <input type="checkbox"/> Street lighting | <input type="checkbox"/> District heating/cooling |
| <input type="checkbox"/> Commercial buildings and facilities | <input type="checkbox"/> Renewable energy generation | <input type="checkbox"/> Energy production from waste /wastewater |
| <input type="checkbox"/> Institutional buildings and facilities | <input type="checkbox"/> Non-renewable energy generation | <input type="checkbox"/> Local heat/cold storage |
| <input type="checkbox"/> Industrial buildings and facilities | <input type="checkbox"/> Co-generation | <input type="checkbox"/> Other |

If other, please specify

100 character(s) maximum

Transport

If you selected "Transport (incl. vehicle km travelled, mode share, infrastructure)", please specify the typical frequency of the data collection/reporting

- At least annually
- At least every 2 years
- At least every 4 years
- Less frequently than every 4 years

If you selected "Transport (incl. vehicle km travelled, mode share, infrastructure)", please specify the year of the latest data collection/report

- Before 2010
- 2010
- 2011
- 2012
- 2013

- 2014
- 2015
- 2016
- 2017
- 2018
- 2019
- 2020
- 2021

if you selected "Transport (incl. vehicle km travelled, mode share, infrastructure)", please specify which sectors/sources are included

Real-time transport data can include for example the number of passengers hopping on/off on particular stop, the intensity of public transport usage etc.

- Passenger cars (vehicle km traveled or similar)
- Cycling (mode share)
- Multimodality (mode share)
- Other
- Public transport (mode share)
- Walking (mode share)
- Real-time transport data
- Urban freight and logistics (vehicle km traveled or similar)
- Micromobility (mode share)
- New transport technologies

If other, please specify

100 character(s) maximum

Waste/wastewater (generation, collection and treatment)

If you selected "Waste/wastewater (generation, collection and treatment)", please specify the typical frequency of the data collection/reporting

- At least annually
- At least every 2 years
- At least every 4 years
- Less frequently than every 4 years

If you selected "Waste/wastewater (generation, collection and treatment)", please specify the year of the latest data collection/report

- Before 2010
- 2010
- 2011
- 2012
- 2013
- 2014
- 2015
- 2016
- 2017
- 2018
- 2019

- 2020
- 2021

if you selected "Waste/wastewater (generation, collection and treatment)", please specify which sectors/sources are included

- Private homes/households
- Public services (i.e. schools, hospitals, municipal buildings etc.)
- Businesses/industry
- Other

If other, please specify

100 character(s) maximum

Does your city work in partnership with other stakeholders to collect data on issues that concern or are linked to climate change mitigation?

- Yes
- No

Which stakeholders does your city work with to collect data on issues that concern or are linked to climate change?

- National government
- Academia / R&I institutions
- NGOs and associations
- Other
- Regional government
- Private sector
- Utilities
- Local government
- Trade unions
- Citizens

If other, please specify

100 character(s) maximum

Monitoring & evaluation systems for existing plans

Please indicate how your city's climate change policies are monitored, evaluated, and updated

	Annually	At least every 3 years	At least every 5 years	Irregularly or less frequently than 5 years	No process in place
Monitoring	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Evaluation	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Update	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Disclosure

Is your city regularly disclosing on climate action and progress towards achieving its climate targets?

- Yes
- No

If yes, please specify the frequency of disclosure/reporting.

- At least annually
- At least every 2 years
- At least every 4 years
- Less frequently than every 4 years

If yes, please specify the year of the latest report

- Before 2010
- 2010
- 2011
- 2012
- 2013
- 2014
- 2015
- 2016
- 2017
- 2018
- 2019
- 2020
- 2021

If yes, please specify the way of disclosing

- Through MyCovenant
- Through national platforms/systems (please specify)
- Other (please specify)
- Through CDP Cities (CDP/ICLEI Unified Reporting System)
- Own publication of reports (please specify)

If you selected national, own or other, please specify

100 character(s) maximum

Barriers, risks and assistance needs

The questions in this final section ask you to reflect on the critical barriers, risks and challenges your city faces to achieve climate neutrality by 2030. All cities participating in the Cities Mission will require assistance and aligned efforts at all levels to overcome barriers and gaps while pursuing their climate neutrality ambition. Any information provided in this section does not constitute a qualifying – or excluding – criterion but will be highly informative. Your

answers will help clarify the expectations for your city in the next phases of implementation towards climate neutrality and also inform the Mission as a whole, so that tailor-made services provided through the Mission Platform are as responsive as feasible.

Across sectors

What are the main barriers/gaps/assistance needs that your city envisages in pursuing climate neutrality by 2030?

at most 6 choice(s)

Useful definitions:

- Regulatory red tape: the complex of burdensome administrative rules and procedures that have negative effects on the organisation's performance. In the context of the Mission, it refers to any bureaucratic obstacles to climate neutral action.

- Geomorphic/topographic limitations/challenges: these include anything relevant to climate neutrality related to urban geomorphic type (e.g., coastal, inland, valley, mountainous city), slope, soil type and pollution, irrigation and drainage, groundwater salinization, road accessibility, geological hazards (e.g., earthquakes, tsunamis, floods, forest fires, droughts) and barriers associated with the interaction of natural and man-made hazards, as described in http://publications.europa.eu/resource/cellar/97c92108-3474-4426-887e-ba70725f7250.0001.01/DOC_1.

- Growth scheme limitations/challenges: these include any obstacle to taking actions to mitigate Greenhouse Gas emissions and move towards climate neutrality related to urban sprawl, centeredness, connectivity, density and landuse mix.

- Climatic limitations/challenges: these include any obstacle to climate neutrality related to proclivity to extreme heat, cold, wind, windlessness, humidity, rainfall, solar radiation.

- | | |
|---|--|
| <input type="checkbox"/> Slow/disaggregated authorisation process | <input type="checkbox"/> Lack of enabling policy at EU level |
| <input type="checkbox"/> Slow/disaggregated financial process | <input type="checkbox"/> Lack of available technologies to eliminate Greenhouse Gas emissions in certain sectors or applications |
| <input type="checkbox"/> Insufficient administrative and/or operational capacity | <input type="checkbox"/> Fragmentation of responsibilities |
| <input type="checkbox"/> Regulatory red tape | <input type="checkbox"/> Difficulties in building collaborations between public and private sectors |
| <input type="checkbox"/> Lack of digitalisation | <input type="checkbox"/> Uncertainty about regulation and taxation |
| <input type="checkbox"/> Lack of circularity | <input type="checkbox"/> Prohibitive investment costs |
| <input type="checkbox"/> Lack of consolidated monitoring, reporting and verification procedures | <input type="checkbox"/> Geomorphic/topographic limitations/challenges |
| <input type="checkbox"/> Lack of industrial support in providing the necessary services | <input type="checkbox"/> Growth schemes limitations/challenges |
| <input type="checkbox"/> Lack of market competition | <input type="checkbox"/> Climatic limitations/challenges |
| <input type="checkbox"/> Lack of citizen participation and proactiveness | <input type="checkbox"/> Lack of funding/financing schemes |
| <input type="checkbox"/> Lack of effective and sustainable policy at local level | <input type="checkbox"/> Lack of technical or commercial skills and information |
| <input type="checkbox"/> Lack of enabling policy at Member State level | <input type="checkbox"/> Other |

If other, please specify

100 character(s) maximum

Please identify and elaborate on the cross-cutting barrier(s)/gap(s)/assistance need(s) that are most critical in your city's journey towards climate neutrality by 2030 (if any)?

1000 character(s) maximum

In identifying the most critical barrier/gap/assistance need, do consider local specificities that may require devising bespoke countermeasures, not readily available.

Sector-specific

What barriers/gaps/assistance needs specific to the energy sector does your city expect to encounter when pursuing climate neutrality by 2030?

at most 4 choice(s)

Short explanations and examples.

- Subsidies for competing fuels. Example: Large subsidies for fossil fuels can significantly lower final energy prices, putting renewable energy at a competitive disadvantage if it does not enjoy equally large subsidies. Subsidies include direct budgetary transfers, tax incentives, R&D spending, liability insurance, leases, land rights-of-way, waste disposal, and guarantees to mitigate project financing or fuel price risks.
- Difficulty of fuel price risk assessment: this includes any barriers associated with fluctuations in future fuels' prices which may bend decisions about new power generation capacity.
- Unfavourable power pricing rules. Example: Renewable energy sources feeding into an electric power grid may not receive full credit for the value of their power, due to two driving factors: 1. the "locational" value of the power is not captured by the producer, 2. their "intermittent" nature cannot be entirely controlled.
- Transaction costs. sustainable energy projects (e.g. renewables) that are typically smaller than conventional energy projects may be discouraged by higher transaction costs (e.g., resource assessment, siting, permitting, planning, developing project proposals, assembling financing packages, negotiating power-purchase contracts with utilities, utility interconnection requirements).
- Tendency to overlook environmental externalities: this refers to the exclusion of monetisable environmental costs in the bottom line used to make decisions. Environmental externalities include impacts on human health (i.e., loss of work days, health care costs), infrastructure decay (i.e., from acid rain), declines in forests and fisheries, and other costs associated with climate change.
- Excessive requirements for liability insurance: liability insurance covers any legal costs and payouts claimed for injuries and damage to other people or property, which may disproportionately affect small power generators (e.g. home PV systems feeding into the utility grid).
- Perceived technology performance uncertainty and risk: this refers to the lack of visibility and familiarity with sustainable energy technologies that can lead to perceptions of greater technical risk than for conventional energy sources. These perceptions may increase required rates of return, result in less capital availability, or place more stringent requirements on technology selection and resource assessment.

- | | |
|---|--|
| <input type="checkbox"/> Subsidies for competing fuels | <input type="checkbox"/> Tendency to overlook environmental externalities |
| <input type="checkbox"/> High initial capital costs | <input type="checkbox"/> Lack of legal framework for independent power producers |
| <input type="checkbox"/> Difficulty of fuel price risk assessment | <input type="checkbox"/> Restrictions on siting and construction |
| <input type="checkbox"/> Unfavourable power pricing rules | <input type="checkbox"/> Transmission access |
| <input type="checkbox"/> Lack of effective and sustainable energy policy at local level | <input type="checkbox"/> Excessive requirements for liability insurance |
| <input type="checkbox"/> Lack of enabling energy policy at Member State level | <input type="checkbox"/> Lack of access to credit |
| <input type="checkbox"/> Lack of enabling energy policy at EU level | <input type="checkbox"/> Perceived technology performance uncertainty and risk |
| <input type="checkbox"/> Technical regulations | <input type="checkbox"/> Site specific constraints |

Transaction costs

Other

If other or "site-specific constraints", please specify

100 character(s) maximum

What barriers/gaps/assistance needs specific to the transport sector does your city expect to encounter when pursuing climate neutrality by 2030?

at most 4 choice(s)

Short explanations and examples

- Subsidies for competing fuels: please see previous question.

- Lack of cross-modal ticketing and payment systems (to encourage modal shift). The purchase of tickets in one go would enable passengers to travel using different transport modes provided by numerous operators (<https://fsr.europa.eu/towards-eu-wide-multimodal-ticketing-and-payment-systems/>)

- Inefficient or non-existent time-variable road pricing. This includes variable tolls, with higher prices under congested conditions and lower prices at less congested times and locations, to reduce peak-period traffic volumes to optimal levels ([https://www.europarl.europa.eu/RegData/etudes/BRIE/2016/583781/EPRS_BRI\(2016\)583781_EN.pdf](https://www.europarl.europa.eu/RegData/etudes/BRIE/2016/583781/EPRS_BRI(2016)583781_EN.pdf)). This also includes systems of varying charges for heavy-duty vehicles based on CO2 emissions (<https://www.consilium.europa.eu/en/press/press-releases/2020/12/18/road-charging-reform-council-agrees-its-stance/>)

- | | |
|--|---|
| <input type="checkbox"/> Subsidies for competing fuels | <input type="checkbox"/> Lack of enabling transport policy at EU level |
| <input type="checkbox"/> High initial capital costs | <input type="checkbox"/> Spatial dispersion or uneven accessibility |
| <input type="checkbox"/> Lack of cross-modal ticketing and payment systems (to encourage modal shift) | <input type="checkbox"/> People's time and economic constraints in the use of public transport |
| <input type="checkbox"/> Insufficient flexibility in changing urban forms and functions (to reduce trip lengths) | <input type="checkbox"/> Infrastructural and planning barriers to active travel (lack of side walks, cycling lanes, etc.) |
| <input type="checkbox"/> Insufficient ICT access in remote areas (to reduce the need to travel) | <input type="checkbox"/> Psychosocial barriers to active travel (risk of collision and injury and/or exposure to crime and verbal offense) |
| <input type="checkbox"/> Inefficient or non-existent time-variable road pricing | <input type="checkbox"/> Psychosocial barriers to public transport use (risk of transmission of infections, exposure to crime and verbal offense) |
| <input type="checkbox"/> Insufficient technological availability | <input type="checkbox"/> Psychosocial barriers to automated transport systems (such as driverless shuttles) |
| <input type="checkbox"/> Lack of effective and sustainable transport policy at local level | <input type="checkbox"/> Site specific constraints |
| <input type="checkbox"/> Lack of enabling transport policy at Member State level | <input type="checkbox"/> Other |

If other or "site-specific constraints", please specify

100 character(s) maximum

What barriers/gaps/assistance needs specific to the waste/wastewater management sector does your city expect to encounter when pursuing climate neutrality by 2030?

at most 4 choice(s)

Definition

Downcycling = recycling waste into products of inferior quality and reduced functionality

See [https://www.europarl.europa.eu/RegData/etudes/BRIE/2015/559493/EPRS_BRI\(2015\)559493_EN.pdf](https://www.europarl.europa.eu/RegData/etudes/BRIE/2015/559493/EPRS_BRI(2015)559493_EN.pdf)

- | | |
|---|---|
| <input type="checkbox"/> Insufficient waste separation and quality of separated waste | <input type="checkbox"/> Difficult balancing between promoting recycling and protecting consumers against harmful chemical substances in recycled materials |
| <input type="checkbox"/> Inefficient recycling processes | <input type="checkbox"/> Slow behavioural transformation, including cultural barriers |
| <input type="checkbox"/> Insufficient data collection | <input type="checkbox"/> Limited community engagement and support |
| <input type="checkbox"/> Inefficient energy recovery of waste | <input type="checkbox"/> Spread of illegal practices in shipping, dumping or burning waste |
| <input type="checkbox"/> Ineffective waste prevention | <input type="checkbox"/> Lack of infrastructure for circular economy measures |
| <input type="checkbox"/> Lack of effective and sustainable waste management policy at local level | <input type="checkbox"/> Weaker norms outside the EU which incentivise waste export |
| <input type="checkbox"/> Lack of enabling waste policy at MS level | <input type="checkbox"/> Downcycling |
| <input type="checkbox"/> Lack of enabling waste policy at EU level | <input type="checkbox"/> Other |

If other, please specify

100 character(s) maximum

Self-assessment

Please rate how much your city relates to the following statements on a scale from 1 to 5, where 1 is "cannot relate" and 5 is "very much relates".

	1	2	3	4	5
The city can rely on a growing, young and above-average educated and skilled population	<input type="radio"/>				
The city can rely on favourable economic conditions such as high salaries/tax revenues	<input type="radio"/>				
The city can rely on a supportive local research environment	<input type="radio"/>				
The city can rely on a fast authorisation process	<input type="radio"/>				
The city can rely on a fast funding/financing process	<input type="radio"/>				
The city can rely on a consolidated communication platform with proven success in disseminating climate awareness	<input type="radio"/>				
The city can rely on its own funding schemes and moderately resorts to external funding for its climate policies	<input type="radio"/>				
The city can rely on favourable geo-climatic conditions (e.g., proximity to water bodies, moderate occurrence of climate extremes)	<input type="radio"/>				

The city cannot rely on any of the above favourable conditions, but major obstacles to climate neutrality are not expected	<input type="radio"/>				
The city cannot rely on any of the above favourable conditions, but this is what makes its pathway to climate neutrality a textbook example for many other similar cities to follow	<input type="radio"/>				
The city cannot rely on any of the above favourable conditions, but recent R&I solutions offer the potential to enable at least one of them.	<input type="radio"/>				
The city cannot rely on any of the above favourable conditions, but this is the 'right moment' ('policy window') to place and prioritise the topic of urban climate neutrality on the agenda	<input type="radio"/>				
The city cannot rely on any of the above favourable conditions, but it has a history of coping with it by pioneering climate policies and by looking for alternative creative approaches (e.g., collaborations /networking access to crucial knowledge, participation in exploratory studies)	<input type="radio"/>				
The city cannot rely on any of the above favourable conditions, but it has already secured enough internal and external funding/financing for climate related projects to become a climate neutrality pioneer	<input type="radio"/>				

Please elaborate on any of the statements in the previous table whose declared rating is either "1" or "5"

1000 character(s) maximum

For instance, if the answer to the statement "The city can rely on a growing, young and above-average educated and skilled population" is "5", we invite you to provide additional explanations on the specific situation of your city.

Risk assessment

For any of the risk categories listed in the table below, please identify and comment on high-impact and high-likelihood risks that could impact the achievement of your city's climate neutrality target by 2030

Every plan or project has risks which can harm its execution. The purpose of a risk assessment is to identify and analyse these potential risks. Properly made risk assessment can reduce the likelihood of negative impacts to the plan/project and/or the magnitude of the impacts, if effective mitigating actions are planned and implemented.

Risk assessment has three steps:

- Identification of the risks and their impacts
- Evaluation of risk level
- Planning of necessary mitigating actions

Identifying potential risks, i.e. a list of potential things that could stop the city from achieving its climate neutrality target, is the first step in the risk assessment process. For each risk category, the help text provides examples of potential sources of risk. Those lists are not conclusive. Your city is invited to reflect

on the risks impacting/associated with an accelerated run towards climate neutrality, by focusing on those having both high impact and high likelihood. It is recommended to include city-specific risks stemming from its local characteristics.

Definitions

- Risk: risk is defined as the effects of uncertainty on objectives.
- Risk level: combination of the likelihood of occurrence and the expected impact to plan/project execution.
- Risk source: fundamental (internal and/or external) driver that causes risks, i.e. Anything which alone or in combination has the intrinsic potential to give rise to risk. Risk sources identify where risks can originate.

Category 1: Leadership, strategic planning and political risk sources

700 character(s) maximum

Examples of risk sources:

- National government commitment
- Government involvement and directions
- Ministerial processes
- Parliamentary processes and requirements
- Local government commitment
- Political will
- Change/ turnover in government
- Consensus
- Political environment
- Leadership and management processes
- Strategic, divisional & unit planning & reporting
- Corporate practices

Category 2: Finance risk sources

700 character(s) maximum

Examples of risk sources:

- Financial requirements and conditions '
- Policies and procedures
- Financial management
- Legislative & industry requirements
- Legal costs
- Corruption and fraud
- Fluctuation in credit rate, market, currency
- Inflation

Category 3: Regulatory risk sources

700 character(s) maximum

Examples of risk sources:

- Legislative requirements
- Changes in the regulatory framework
- Legal and governance obstructions
- Industry regulations and standards
- Legal liabilities

- Departmental guidelines
- Licenses to operate

Category 4: Operational risk sources

700 character(s) maximum

Examples of risk sources:

- Policies and procedures
- Financial management
- Contractual agreements
- Contract specifications
- External, outsourced functions
- Asset management
- Resource availability
- Transparency & dispute resolution
- Procurement
- Legal compliance
- Protective security
- Advancement in technology
- Conflicts of interest
- System failures
- Business continuity and disaster response

Category 5: Organisational risk sources

700 character(s) maximum

Examples of risk sources:

- Managerial responsibilities
- Policies & Procedures
- Legislative requirement
- Divisional planning and management
- Recruitment and allocation of resources
- Workforce and succession planning
- Ethical and Professional conduct
- Governance
- Monitoring
- Independence and quality of evaluation
- Knowledge management
- Budget availability and cash flow
- Internal control
- Procurement

Category 6: Partnerships / Stakeholder (Working Together) risk sources

700 character(s) maximum

Examples of risk sources:

- Stakeholder relationships/engagement

- Organisational relations (internal & external)
- Government collaborations
- Capacities of the partners
- Roles and responsibilities among partners
- Public opinion and media
- Leadership
- Communications

Category 7: Social risk sources

700 character(s) maximum

Examples of risk sources:

- Social inequality
- Social inclusion
- Human rights
- Community health
- Cultural heritage
- Displacement, resettlement
- Gentrification
- Energy poverty
- Transport poverty
- Poverty
- Labour and working conditions

Category 8: Environmental risk sources

700 character(s) maximum

Examples of risk sources:

- Biodiversity conservation and sustainable natural resource management
- Environmental disasters
- Encroachment on rural areas
- Pollution
- Urban heat island effect
- Interference with natural cycles (e.g., migration flows)

Category 9: Safety and Security risk sources

700 character(s) maximum

Examples of risk sources:

- Cyber-security
- Manmade hazards
- Volatile prices and provision (even provisional)
- Civil unrest
- Work health and safety

