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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 **j oining 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 <u>Eligibility</u> and <u>Additional Information</u> 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 <u>Mission Platform</u>. 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 <u>not</u> 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 <u>Info Kit for Cities</u>. 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 <u>non-associated third</u> <u>countries</u>, 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 of all pages of this form.

I confirm I accept the personal 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

*	Plea	ise	select	if	your	city	is	located	in
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Throughout this questionnaire the term city is used to refer to all geographical subnational	al jurisdictions	("Local
Administrative Units") or territorial units eligible under the Cities Mission.		

- 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

NL - Netherlands

* Please provide the official name of your city in English

Rotterdam

* 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)
- Oity
- 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.

GM0599

* 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).

651269	inhabitant

* To which year does this population figure refer?

Format: 2xxx

2021			

Commitment

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



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)

Please provide a numerical value

21.757

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

Not yet decided

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.

Within the administrative boundaries of Rotterdam The Port of Rotterdam is situated. Most of the industry situated there are participating in the Emissions Trading System. Although within the scope of this mission to further strengthen en speeding up the transition there, to reach climateneutrality in 2030 does not seem feasible now.

About the Expression of Interest

* Please confirm that your city intends to address all Greenhouse 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(s)

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)

Within the administrative boundaries of Rotterdam The Port of Rotterdam is situated. Most of the industry situated there are participating in the Emissions Trading System. Although within the scope of this mission to further strengthen en speeding up the transition there, to reach climateneutrality in 2030 does not seem feasible now.

* 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

* 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
1	Dutch	Greek	Maltese	Spanish
1	English	Hungarian	Polish	Swedish

About the city's representative

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

* Name

Alexander

* Surname

van Steenderen

* Position

Strategic Advisor energytransition

* Email address

a.vansteenderen@rotterdam.nl

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

I confirm

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 multing	ole inventories are available,	preference	should be	aiven to th	ne most co	mplete and	most rece	ent inventory.

- Yes
- O 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). **To indicate decimals, please use the dot as separator**

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.

27087318

Accounting year

Only values between 1990 and 2020 are allowed

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

2019

Population in accounting year

644618

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

Please indicate the sector(s)/source(s) 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.

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 Other (AFOLU)
▼ Transport Industrial Processes and Product Use (IPPU)
✓ Waste/wastewater ✓ Energy generation
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
O 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 CO2 equivalent)			
Stationary energy	14.293.189			
This should cover direct and indirect emissions.	14.233.103			
Transport	847.612			
This should cover direct and indirect emissions.	047.012			
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,	15.458			
whether managed/disposed of within the city or outside).				
Industrial Processes and Product Use (IPPU)	1.583			
This should cover direct emissions.	1.000			
Agriculture, Forestry, and Other Land Use (AFOLU)	NE NE			
This should cover direct emissions.	INC.			
Other (please specify in the additional question below)				
TOTAL EMISSIONS (excluding generation of grid-supplied energy)	15.157.842			
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	11.929.476			
counting.				

In case 'Other' emissions have been provided in the previous table, please explain the origin 200 character(s) maximum

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.

"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	0	0	0	0
Transport	0	0	0	0
Waste/wastewater	0	0	0	0
Agriculture, Forestry, and Other Land Use (AFOLU)	0	0	0	0
Industrial Processes and Product Use (IPPU)	0	0	0	0
Other	0	0	0	0
Energy generation (emissions resulting from the generation of grid-supplied energy)	•	0	0	0

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

Trends

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

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)

Although fluctuating in the years before, since 2018 we have seen a steady decline in greenhouse emissions. In the forecast based on our current policy measures derived from the Rotterdam Climate Agreement, we forsee a further reduction of 8957 kton in 2030.

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 Greenhouse Gas 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 full	lure (i.
e. with a target year after 2020)?	

(0)	Vρς
	100

O 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).

The City Council has officially adopted the goal of reaching climate neutrality in 2050 and reducing the (scope 1) emissions within it's boundaries in 2030 by 49%. This was done by adopting the document called 'Raadsakkoord Energietransitie'in 2019.

Please specify the sectors covered by the target
Stationary energy Agriculture, Forestry, and Other Land Use Other (AFOLU)
☑ Transport
✓ Waste/wastewater ✓ Energy generation
Please specify the reduction percentage
Please specify the reduction percentage using only numbers. Example: -10% is introduced as 10.
Up to 2 decimals are allowed.
49
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
Covord part of the only o administrative boundary and adjoining arous
If applicable, please specify the base year
Only values between 1990 and 2021 are allowed
1990
Please specify the target year
Only values between 2021 and 2099 are allowed
2030
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)?

If yes, please describe the target and its official source

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

500 character(s) maximum

YesNo

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

The Rotterdam Climate Initiative (2007) had the ambition of 50% less CO2 emissions in 2025 compared to 1990.

lf yes, was t	he target ac	hieved?
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- Yes
- O 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.

Please note: This question is linked to the question "Had your city officially adopted a GHG emissions reduction target in the past (e.g., with a target year up to 2020)?", not to the question "If yes, was the target achieved?".

- Yes
- O 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
- O No

How many plans would you like to provide information about?

- 0 1
- 0 2
- 3
- 0 4
- 9

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
Duurzaamheidskompas
Year of adoption
Only values between 2005 and 2021 are allowed
Please leave it blank if not applicable
2020
End year
Only values between 2005 and 2099 are allowed
Please leave blank if not applicable.
2050
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
O 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
Rotterdamse Mobiliteitsaanpak
Year of adoption Only values between 2005 and 2021 are allowed Please leave it blank if not applicable 2020
End year Only values between 2005 and 2099 are allowed Please leave blank if not applicable. 2040
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? O Yes No

Please upload any supporting documentation

Plan 3

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)
- Olimate change mitigation plan
- Other (cross-sectoral)
- Energy plan
- Transport plan
- Waste/wastewater management plan
- Air quality plan
- Green infrastructure plan
- Other (sectoral)

Name

Rotterdams Klimaatakkoord

Year of adoption

Only values between 2005 and 2021 are allowed

Please leave it blank if not applicable

2019

End year

Only values between 2005 and 2099 are allowed

Please leave blank if not applicable.

2050

Degree of implementation

- Fully implemented
- Under implementation
- Not started

Scale of the plan

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

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

- Yes
- O No

Please upload any supporting documentation

Plan 4

Please	select	the t	vpe	of	plan
ricasc	SCICCI	uici	V DC	OI.	pia

riease 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
Regionale Energiestrategie

Year of adoption

Only values between 2005 and 2021 are allowed

Please leave it blank if not applicable

2020

End year

Only values between 2005 and 2099 are allowed

Please leave blank if not applicable.

2030

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

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 Transitievisie Warmte Rotterdam Fear of adoption Only values between 2005 and 2021 are allowed Please leave it blank if not applicable 2021 End year Only values between 2005 and 2099 are allowed	Does this plan contain concrete target(s) for the reduction of GHG emissions?	
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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 Transitievisie Warmte Rotterdam Fear of adoption Only values between 2005 and 2021 are allowed Please leave it blank if not applicable 2021 End year Only values between 2005 and 2099 are allowed Please leave blank if not applicable. 2030 Degree of implementation Fully implemented	Please upload any supporting documentation	
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) Vame Transitievisie Warmte Rotterdam Year of adoption Only values between 2005 and 2021 are allowed Please leave it blank if not applicable 2021 End year Only values between 2005 and 2099 are allowed Please leave blank if not applicable. 2030 Degree of implementation Fully implemented	Plan 5	
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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 Transitievisie Warmte Rotterdam Year of adoption Only values between 2005 and 2021 are allowed Please leave it blank if not applicable 2021 End year Only values between 2005 and 2099 are allowed Please leave blank if not applicable. 2030 Degree of implementation Fully implemented	Sustainable Energy and Climate Action Plan/Sustainable Energy Action Plan (SECAP/S	SEAP)
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Only values between 2005 and 2099 are allowed Please leave blank if not applicable. 2030 Degree of implementation Fully implemented	End year	
2030 Degree of implementation Fully implemented	Only values between 2005 and 2099 are allowed	
Degree of implementation Fully implemented	Please leave blank if not applicable.	
Fully implemented	2030	
Fully implemented	Degree of implementation	
= Shasi illipiolipiliation		
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 rec Yes No	luct	ion of GHG emissions?
Please upload any supporting documentation		
One of the plans you previously selected was "Sustainable Energy Action Plan (SECAP/SEAP)". With the selected was "Sustainable Energy Action Plan (SECAP/SEAP)". With the selected was "Sustainable Energy Action Plan (SECAP/SEAP)". With the selected was "Sustainable Energy Action Plan (SECAP/SEAP)". With the selected was "Sustainable Energy Action Plan (SECAP/SEAP)". With the selected was "Sustainable Energy Action Plan (SECAP/SEAP)". With the selected was "Sustainable Energy Action Plan (SECAP/SEAP)". With the selected was "Sustainable Energy Action Plan (SECAP/SEAP)". With the selected was "Sustainable Energy Action Plan (SECAP/SEAP)". With the selected was "Sustainable Energy Action Plan (SECAP/SEAP)". With the selected was "Sustainable Energy Action Plan (SECAP/SEAP)". With the selected was "Sustainable Energy Action Plan (SECAP/SEAP)". With the selected was "Sustainable Energy Action Plan (SECAP/SEAP)". With the selected was "Sustainable Energy Action Plan (SECAP/SEAP)". With the selected was "Sustainable Energy Action Plan (SECAP/SEAP)". With the selected was "Sustainable Energy Action Plan (SECAP/SEAP)". With the selected was "Sustainable Energy Action Plan (SECAP/SEAP)". With the selected was "Sustainable Energy Action Plan (SECAP/SEAP)". With the selected was "Sustainable Energy Action Plan (SECAP/SEAP)". With the selected was "Sustainable Energy Action Plan (SECAP/SEAP)". With the selected was "Sustainable Energy Action Plan (SECAP/SEAP)". With the selected was "Sustainable Energy Action Plan (SECAP/SEAP)". With the selected was "Sustainable Energy Action Plan (SECAP/SEAP)". With the selected was "Sustainable Energy Action Plan (SECAP/SEAP)". With the selected was "Sustainable Energy Action Plan (SECAP/SEAP)". With the selected was "Sustainable Energy Action Plan (SECAP/SEAP)". With the selected was "Sustainable Energy Action Plan (SECAP/SEAP)". With the selected was "Sustainable Energy Action Plan (SECAP/SEAP)". With the selected was "Sustainable Energy Action Plan (SECAP/SEAP)". With the selected was		
Current policies - energy		
Which of the following areas does your city's current	nt e	nergy policy address?
Please consider also facilities and equipment in building-re		
- "Building electrification" is the process of switching from for		
heating, for cooking)		
- "Integrating RES systems into the building" refers to any		
Energy Sources (RES) from the natural environment to pro integrated photovoltaics (BIPV), building-integrated solar th		
- "Virtual power plants" are networks of decentralised, med		
solar parks, and Combined Heat and Power (CHP) units, a		
- "Urban heat island effect mitigation" encompasses any st	rateç	gies that aim at reducing the outdoor temperature in
the city with associated energy savings. This is typically pe		
levels significantly higher compared to the surrounding rura natural features with man-made materials, the alteration of		
layouts).	uiic	will palliways and force by dibarrioughness and
Nearly Zero Energy Buildings (NZEBs) (new	1	Street lighting
buildings)		
Positive Energy Buildings	1	Citizen and renewable energy communities
✓ Nearly Zero Energy Buildings (NZEBs) (renovation of existing buildings)	V	On-site and nearby renewable energy generation
of existing buildings) In Energy renovation/retrofit of existing buildings	J	(electricity, heat/cold) Local (off-site) renewable energy generation
(below NZEB level)		(electricity, heat/cold)
Building electrification	1	District heating/cooling
Energy efficient electrical appliances	1	Demand response

Virtual power plants

☑ Integrating RES systems into the building

√	Building Automation and Control S /Building Energy Management Sys	• , ,	Urban heat island effect mitigation
V		_	Mixed-use development and sprawl containment
V	,	_	Urban regeneration
V	,	V	Behavioural changes
Which	n type of energy policy measur	es does your city o	currently apply?
1	Regulatory (e.g. building codes / s		Infrastructure measures (e.g. upgrade of power
	minimum energy performance sta		plants, increase of RES capacity, smart grids)
	procurement rules, energy supplie	_	
1	Financial incentives and fiscal inst	, <u>-</u>	Planning solutions (e.g. integrated land use and
	grants, loans, soft loans, taxes, su	ıbsidies)	urban planning, integrated long-term strategies for
_			sub-sectors, such as institutional buildings)
√	Public Private Partnerships	▽	Voluntary measures (e.g. industry voluntary
V	Information/owereness raining (a	a oporav audita	agreement programmes)
V	Information/awareness raising (e.g certification and labelling of energy performance)		Technical measures (e.g. smart metering, provision of energy efficient products and services)
1	Education/capacity building (e.g. o	qualification	
	programmes in the sector, training	js)	
Which	n of the following building cate	gories are targeted	by your current energy policy measures?
For de	efinitions of residential, commercial	, institutional and indu	strial buildings and facilities, please consult the
GCoN	A CRF Guidance Note on page 24,	available at https://ww	w.globalcovenantofmayors.org/wp-content/uploads
/2019	/04/Data-TWG_Reporting-Framewo	ork_GUIDANCE-NOT	E.pdf. For social housing and historical buildings
nation	nally applicable definitions should b	e used.	
V	Residential buildings	Institutional build	ings and facilities 🗹 Social housing
V	Commercial buildings and facilities	s 🚺 Industrial buildinç	gs and facilities 🔃 Historical buildings
Mbat	novembers of the energy con-		situs administrativa kaundans aanaa fuona
	wable Energy Sources (RES)?	sumed within your t	city administrative boundary comes from
	, ,	and solar photovoltaic)	and geothermal energy, ambient energy, tide, wave
	·	• • • • • • • • • • • • • • • • • • • •	wage treatment plant gas, and biogas. In answering
			ve boundary should be included, and 2) any green
			e boundaries) have to be accounted for.
	No energy consumption from RES		
0	Below 20%	0 40%-59% 0 Ove	
	20,011 20 /0	1070 0070 = 010	5. 0070
What	percentage of energy generate	ed within the admin	istrative boundary comes from RES?
0	No energy generation (from any	0 20%-39% 0 60	%-80% Not known
	sources)		7,000,700 = 1,000,111,100,111
0	Below 20%	○ 40%-59% ○ Ov	er 80%
	· · - • · ·	12,1 30,0 = 01	
Mhial	DES courage are ourrently us	sed to denorate one	rgy within your city's administrative
	darv?	ou to generate elle	agy within your only 5 authinistrative

'Ambient energy' means naturally occurriconstrained boundaries, which can be stowater. For more information, please constrained of 11 December 2018 on the prowing Wind Solar (solar thermal and solar photovoltaic)	ored in the ambier sult the Directive (motion of the use Ambient ene Tide, wave a energy	nt air, excluding in EU) 2018/2001 of energy from regrand other ocean	n exhaust air, or in surface or sewage f the European Parliament and of the
Geothermal energy	Hydropower		
Which non-renewable energy carries	rs are currently	used to genera	ate energy within your city's
administrative boundary?			
▼ Coal Nuclear Other			
✓ Gas ☐ Oil ☐ None			
Urban heat island effect mitigation is your city to reduce the urban heat is For a compendium of strategies, you can Increasing tree and vegetative cov Installing green roofs Installing cool - mainly reflective - roofs	iland effect and consult https://www.ver Using coo	associated en ww.epa.gov/heati of pavements (eith mart growth prace evaporative cooli	ergy consumption? islands/heat-island-cooling-strategies her reflective or permeable)
Current policies - train	•	nt transnort no	dicy address?
✓ Cleaner/efficient vehicles	_		egration between transport modes
Clean buses	_	romobility	
Electric vehicles (incl. infrastructur		bility as a Service	e (MaaS)
Investment in metros and railways	,	•	stics and urban freight transport
Accessibility of public transport		_	isation aiming at emission reduction
Modal shift to walking & cycling, in infrastructure	cl. Mix	ed use developm	nent and sprawl containment
Car sharing	Dig	italisation and sm	nart city solutions
Ride-sharing/car-pooling initiatives		o-driving (driving lasumption and en	behaviour and style to reduce fuel nissions)
Park and ride facilities			
Which type of transport policy meas	uree does vour	city apply?	
Congestion pricing consists of charging of the city.	-		ds of peak demand in designated areas
Technical measures (e.g. smart ca transport)	ards for public		centives and fiscal instruments (e.g. axes, congestion pricing schemes)
Infrastructure measures (e.g. cycli recharging stations for electric cars	_		ate Partnerships
Regulation based measures (e.g. regulations like Low or Zero Emiss	vehicle access	▼ Voluntary m	neasures with stakeholders
regulations like Low of Zero Emiss	51011 ZUIIGS)	▽	

Planning solutions (e.g. SUMP or integrated land use and transport planning)

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?

Yes, for office buildings and/or education buildings
Yes, for residential buildings

■ No Yes, for commercial/ entertainment buildings

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.
 - 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
 - Litter prevention in public spaces and/or marine litter Stormwater management prevention
 - Industrial symbiosis between local businesses

- Sustainable buildings
- Circular economy business models, aimed at encouraging the reuse, repair and/or recycling of products
- Efficient thermal treatment/ landfill management
- Efficient waste /landfill gas to energy / fuel
- Wastewater reuse

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?

✓ Plastics ✓ Cardboard and paper ✓ Food waste

Waste electrical and electronic equipment

🛚 Glass 🔻 Metal	Garden/Yard waste 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 standa	ılon	e or part of a broader urban/innovat	ion/	sustainability strategy/policy
For "Innovation procurement strategies", ple	ease	e refer to Section 7.6 of the InfoKit.		
Digitalisation or smart city strategies	1	Innovation procurement strategies	1	Use of Internet-of-Things
				technology
Digitalisation or smart city policies	V	Data governance strategy	1	Digital Twins
		(national or local)		
ICT infrastructure to enable smart	1	Use of open standards by		

preference

Does your city run any smart city projects?

- Yes
- O No
- Planned

city solutions

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
- O 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.

1	EU funding	1	Public-private partnership (PPP)	✓	Blended finance
1	National and/or regional funding		Private investment	V	City budget

Has your city worked with other stakeholders to implement smart city projects? Private sector No 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-infrastructures 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-betterregulation-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

Proofs of Concept, prototyping, challenges

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.

Horizon 2020 Decarb city Pipes 2050: Transition roadmaps to energy efficient, zero-carbon urban heating and cooling. Horizon 2020

RUGGEDISED is a smart city project funded under the European Union's Horizon 2020 research and innovation programme.

Interreg NWE Urbcon: URBCON reduces the use of raw materials and the CO2 emissions from construction and maintenance of buildings and infrastructure in cities.

Interreg 2 Seas Mobi-Mix: Improved implementation of shared mobility and MaaS to increase up-take of lowcarbon transport in cities.

LIFE@UrbanRoofs: This project encourages real estate developers and building owners to invest in climate change adaptation.

Further: developement of an Open Urban Platform with Digital Twin, Co-creatiion in the digital city, Permit check service, newbuildingapp, Digital Twin sustainability, SAFE 3D Rotterdam, Digital Twin under water.

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
- O No

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

- 0
- 0 2
- 3
- 4
- 5

Measure 1

Measure (short description)

200 character(s) maximum

Development of infrastructure, steam exchange, heat supply and CCS; Hydrogen use, electrification, closure of coal fired power plants; development of circular economy, biobased economy, free of fossil

Sector(s) covered

	"(Cross-sectoral"	can include	relevant	measures	linked to	digital	transition
--	----	-----------------	-------------	----------	----------	-----------	---------	------------

- Stationary energy Agriculture, Forestry, and Other Land Use (AFOLU)
- 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

Estimated emissions reduction (metric tonnes CO2e): 31400000 (total in 2050)

Measure 2

Measure (short description)

200 character(s) maximum

insulation of existing buildings, extension of the existing heat network and connection of new buildings; from natural gas towards allelectric heating of buildings; construction of new buildings

•	, ,		
Sector	(S)	CO	/ered

"Cross-sectoral" can include relevant measures linked to digital transition	1.
Stationary energy Agriculture, Forestry, and Other Land Use	Cross-sectoral
(AFOLU)	
Transport Industrial Processes and Product Use (IPP)	U)
Waste/wastewater Energy generation	
Degree of implementation	
Fully implemented	

Scale

- Smaller than district/neighbourhood scale
- District/neighbourhood scale
- Oity scale

Not started

Greater than city scale

Under implementation

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

Estimated emissions reduction (metric tonnes CO2e): 655000

Measure 3

Measure (short description)

200 character(s) maximum

Energy saving through promoting energy efficient consumer goods and behaviour; local production of solar and wind power; greening the energy mix, sustainable heat grid.

Sector(s) covered
"Cross-sectoral" can include relevant measures linked to digital transition.
Stationary energy Agriculture, Forestry, and Other Land Use Cross-sectoral (AFOLU)
□ 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
Estimated emissions reduction (metric tonnes CO2e):1300000
`
Measure 4
Measure (short description)
200 character(s) maximum
Promoting public transport, electrification of personal cars and city logistics, zero-emission inner city, promotion of cyling and other slow traffic, greening the highways, regional roads, shipping
promotion of cyling and other slow traine, greening the highways, regional roads, shipping
Sector(s) covered
"Cross-sectoral" can include relevant measures linked to digital transition.
Stationary energy Agriculture, Forestry, and Other Land Use Cross-sectoral
(AFOLU) ☑ Transport □ Industrial Processes and Product Use (IPPU)
☐ Waste/wastewater ☐ Energy generation
Degree of implementation
Fully implemented

Not started

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	
Estimated emissions reduction (metric tonnes CO2e): 760000	
R&I projects	
Has your city participated in any European R&I projects relevant to climate change mitigation/GHG emissions reduction since 2005 (included)?	
You may also include relevant projects linked to digital transformation.	
Yes	
O No	
How many R&I projects would you like to provide information about?	
0 1	
© 2 © 3	
© 4	
5	
R&I project 1	
Dysic at Name	
Project Name 100 character(s) maximum	
	_
Decarb city Pipes 2050	
Framework Programme	
Horizon 2020/Horizon Europe Connecting Europe Facility (CEF) IPI 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 city	
Case study	
Partner/follower	
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

Framework Programme

Morizon 2020/Horizon Europe Connecting Europe Facility (CEF)

Transition roadmaps to energy efficient, zero-carbon urban heating and cooling. Decarb City Pipes 2050 showcases how local authorities can succeed in this challenge. Bilbao, Bratislava, Dublin, Munich, Rotterdam, Vienna and Winterthur, seven cities from frontrunners to beginners join forces to learn from each other and elaborate innovative responses together.

Dollars to all O
R&I project 2
Project Name
100 character(s) maximum
Ruggedised
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 city Case study Partner/follower 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
RUGGEDISED is a smart city project funded under the European Union's Horizon 2020 research and innovation programme. It brings together three lighthouse cities: Rotterdam, Glasgow and Umeå and three fellow cities: Brno, Gdansk and Parma to test, implement and accelerate the smart city model across Europe. Working in partnership with businesses and research centres these six cities will demonstrate how to combine ICT, e-mobility and energy solutions to design smart, resilient cities for all.
R&I project 3
Project Name
100 character(s) maximum
Triple-A project

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 city Case study Partner/follower 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
The overall aim of the Triple-A project - Enhancing at an Early Stage the Investment Value Chain of Energy Efficiency Projects - is to assist financial institutions and project developers increase their deployment of capital in energy efficiency, making investments more transparent, predictable and attractive. Triple-A is implemented by a consortium of academic, research and industry partners from Bulgaria, Czech Republic, Germany, Greece, Italy, Lithuania, Spain and The Netherlands.
R&I project 4 Project Name 100 character(s) maximum
MOBI-MIX
Framework Programme Horizon 2020/Horizon Europe Connecting Europe Facility (CEF) 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 city
Case study
Partner/follower
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

Improved implementation of shared mobility and MaaS to increase up-take of low-carbon transport in cities. The MOBI-MIX cities are working to decarbonise road transport (cars in particular). Within the project, they will facilitate the private sector to more effectively implement Shared Mobility solutions The aim is to reduce 365.000 kg of CO2-emissions by avoiding/replacing 2.6M fossil-fuelled car-kilometres in the urban environments of 5 cities/regions in the 2 Seas area.

R&I project 5

Project Name

100 character(s) maximum

LIFE@UrbanRoofs:			

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 city
- Case study
- Partner/follower
- 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

This project encourages real estate developers and building owners to invest in climate change adaptation. The project will trial the use of multifunctional roofs that have greater benefits for property owners than traditional green roofs. These roofs will combine several types of infrastructure: green (to reduce the urban heat island effect and support biodiversity), blue (water storage), yellow (energy generation) and red (social use). Rotterdam has selected three demonstration sites.

Initiatives

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

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. Yes No How many initiatives would you like to provide information about? 0 2 3 0 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. Covenant of Mayors for Climate and Energy

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
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
acountability, exchange of best practices, cooperation different layers of government
Initiative 2
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
Living in.eu viovement
If relevant to climate neutrality, also national initiatives can be mentioned here.
C40
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

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

RAISING CLIMATE AMBITION, INFLUENCING THE GLOBAL AGENDA, SCALING UP CLIMATE ACTION

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.

Civitas

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.

0	Demonstrator	0	Observer	Not known
	Replicator		Other	Not applicable

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

CIVITAS supports cities to make smart and sustainable urban mobility a reality for all. In doing so, it is ensuring that mobility is a driving force behind the creation of climate-neutral and resilient cities.

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.

EIT Climate KIC initiatives

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.

0	Demonstrator	0	Observer	Not known
	Replicator		Other	Not applicable

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

EIT Climate-KIC is a Knowledge and Innovation Community (KIC), working to accelerate the transition to a zero-carbon, climate-resilient society. As member we support the exchange of knowledge and implementation of best practices.

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.

New European Bauhaus

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.

0	Demonstrator	0	Observer	0	Not known
	Replicator		Other		Not applicable

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

The New European Bauhaus initiative calls on all of us to imagine and build together a sustainable and inclusive future that is beautiful for our eyes, minds, and souls. Beautiful are the places, practices, and experiences that are Enriching, Sustainable, Inclusive. As a city famous for it's innovative architecture, we look forward participating in this new initiative.

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?

0 1

0 2

3

0 4

0 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.

C40 Cities Climate Leadership Group, C40 cities award (2015)

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.

UNESCO Netexplo award for its RUGGEDISED-supported 'datasphere'

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.

ı	Rotterdam is one of the six iCapital winners.

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?

, local soule diffiate magation policies/actions a	ild/OI vioc veisa:
Yes, for all climate policies/actions	Intending to perform such assessments in the next
	2 years
Yes, for most climate policies/actions	Not intending to perform such assessments
Yes, for some climate policies/actions	I don't know
Preparing to perform such assessments over the	
next year	

If yes, which of the following co-benefits or adverse impacts generated by local scale climate mitigation policies/actions 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	Business/technological innovation	V	Natural resource depletion
Revenue generation	Labour productivity	1	Congestion
Costs	Labour conditions	1	Disruption of energy, transport, water and communications networks
	E companie mandonation		
Energy security	Economic production		Economic impact of disasters
Social			

Social

Water security	Energy poverty	Transparency and accountability
Food security	Transport poverty	Education and public awareness
V		▽

Mobility and access Road safety	Security/protection for poor/vulnerable populations Social inclusion, equality and justice	Number of households and businesses forced from homes/places of work
Public Health Physical health Mental wellbeing/ Air quality	weather Disaster/disease/contamin	me heat or cold Health costs
Environmental Resilience to clim Water/soil quality	health impacts ate change/adaptation Noise pollution Light pollution	Green space coverage and qualityBiodiversity and ecosystem services
adverse impacts. Is you This question is linked to	our city specifically addressing any of the following answer options in the previous por/vulnerable populations; social inclusion	aluating specific social co-benefits and of these social aspects in its territory? us question: energy poverty; transport poverty; , equality and justice; number of households and

If yes, please provide further details or examples.

1500 character(s) maximum

No

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

We offer households cost-neutral acces to the (residual) distrcit heating to stop using fossile gas. Data to support and develop policy measures, mitigating adverse effects in front, making them inclusive in design. Target energy-poverty households with insulation measures to reduce energy consumption and cost. An Education-work agreement specific for energy, with clear measures and actions, has been set with local businesses and education facilities.

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 from other EU programmes.

The city of Rotterdam supports the goals and ambitions of the EU mission on Climate Neutral and Smart Cities.

Cities are the place where decarbonisation strategies for energy, transport, buildings and industry and agriculture coexist and intersect. Therefore, this mission will contribute to reaching a 55 percent CO2 reduction by 2030 and climate neutrality by 2050 in the European Union, by realizing "100 Climate Neutral and Smart Cities".

The 100 cities that will be selected by the Commission will guide the way towards a climate neutral European Union, as they set the goal for climate neutrality in 2030. Therefore, we aspire to be selected among those 100 cities.

Since the selected cities will share their experiences and knowledge with each other on their systemic transformation towards climate neutrality by 2030, we believe this mission can contribute to the goals of our climate policies as set out in our Rotterdam Climate Agreement.

We are committed to further develop our plans towards climate neutrality and the Climate City Contract.

In more detail, the city of Rotterdam has already set goals, policies, measures and implementation strategies for all the sectors which are responsible for CO2e-Emissions, as described in detail in the delivered documentation. The latest forecast shows that our efforts can be substantial (80%) in reaching the (previous) goal of -49% reduction to achieve in 2030. Still, various barriers (financial, regulatory, etc.) exist which prevent us from fully executing all the measures envisioned. First step would be to try to overcome (some of) these barriers by a more efficient use of the available EU-instruments and recources (knowledge, regulatory, financial). Securing these interventions, which are fit for execution, is key to timely reach the desired reduction in 2030 and form the base for further learning, identify uspcaling opportunities and shape new policies to support new measures.

Further, a more ambitous package of measures to align ourselves with the 55% reduction target is being prepared for the upcoming (new) administration. This coincides with policy-measures being shaped by our new national government and the EU itself. The timing of this missions thus gives us the unique changes of aligning measures on EU, national and local scale to maximize output in our cities. Our contribution to the mission can thus be substantial in providing the real-time experience en insights of mulit-layer collaboration en the effects on a city scale, leading to better policy.

The challenge to reach climate-neutrality in 2030, even without the emissions that fall under the ETS, are almost impossible with the traditional policy-making and available techniques. Recource shortages (circulair building materials, skilled labour, etc) and the occurance of too much adverse effects (f.e. congestion) have to be overcome in a different way. The mission offers us that opportunity to explore and execute new (unconvential) ways to go beyond the reduction targets already in place. The chances the digitalisation of our society offers would be one of the key components in a new mission-driven cross-sectoral approach to overcome these obstacles, leading to a more resilient society and future-proof economy, contributing to the goals set in the European Green Deal.

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

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

- Yes
- No

Future picture - closing the gap

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

Stationary energy (excluding public lighting)

- Nearly Zero Energy Buildings (NZEBs) (new buildings) Digitalisation and smart city solutions
- ☑ Nearly Zero Energy Buildings (NZEBs) (renovation of ☑ Local heat/cold storage existing buildings)
- Building electrification

- Behavioural changes
- Energy efficient electrical appliances
- Positive Energy Buildings

Integrating RES systems into the building Energy renovation/retrofit of existing buildings (below NZEB level) On-site and nearby renewable energy generation Citizen and renewable energy communities Building Automation and Control Systems (BACS) Demand response /Building Energy Management Systems (BEMS) Nearly Zero / Positive Energy Districts **Public lighting** Energy efficiency Integrated renewable energy Information and Communication Technologies **Transport** Cleaner/efficient vehicles Congestion pricing schemes Clean buses Improvement of logistics and urban freight transport Electric vehicles (incl. infrastructure) Road network optimisation aiming at emission reduction Investment in metros and railways Mixed use development and sprawl containment Accessibility of public transport Digitalisation and smart city solutions Eco-driving (driving behaviour and style to reduce fuel Modal shift to walking & cycling, incl. infrastructure consumption and emissions) Multi-modal hubs/integration between Car sharing transport modes Micromobility Ride-sharing/car pooling initiatives Mobility as a Service (MaaS) Park and ride facilities Low or Zero Emission Zones Waste Use of recycled and recyclable, renewable and Circular economy business models, aimed at sustainable materials encouraging the reuse, repair and/or recycling of products Management of biodegradable municipal waste Other innovative measures promoting the circular economy concept Municipal waste prevention Efficient thermal treatment/ landfill management Food waste prevention Efficient waste /landfill gas to energy / fuel Redirecting food surplus and food scraps Waste heat recovery Litter prevention in public spaces and/or marine litter Upgrade of wastewater treatment prevention Anaerobic digestion Wastewater reuse Industrial symbiosis between local businesses Stormwater management Sustainable buildings Renewable energy generation Wind power Ambient energy Biomass district heating/cooling plant Solar thermal Tide, wave and other ocean energy Biomass district heating/cooling network (new, expansion, refurbishment) Hydropower Energy production from waste/wastewater Virtual power plants

Photovoltaic Efficiency of existing co-generation systems	✓ Digitalisation and smart city solutions
Geothermal Biomass power plant energy	
Other areas	
Energy efficiency in industrial processes	Natural carbon sinks (e.g., tree planting)
Renewable energy in industrial processes	Hydrogen technologies
Energy efficiency in agriculture and forestry processes	Urban heat island effect mitigation
Renewable energy in agriculture and forestry processes	Mixed-use development and sprawl containment
Information and Communication Technologies in Agriculture Forestry, and Other Land Use (AFOLU) / Industrial Processe and Product Use (IPPU)	_
What policy instruments does your city plan to use to supple selected above?	port the necessary actions in the areas
If no areas are selected in any sector(s), please select "Not app	plicable".
Stationary energy (excluding public lighting)	
Stationary energy (excluding public lighting) Awareness raising/training Energy/carbon taxes	Building standards Not
	Building standards Not applicable
	_
 Awareness raising/training Energy/carbon taxes Energy management Grants and subsidies Energy certification Third party financing, Public 	applicable
 Awareness raising/training Energy/carbon taxes Energy management Energy certification Industrial content of the party financing, Public Private Partnerships 	applicable Energy audits Land use planning regulation
 ✓ Awareness raising/training ✓ Energy management ✓ Grants and subsidies ✓ Energy certification ✓ Inited party financing, Public Private Partnerships ✓ Energy suppliers ✓ Public procurement 	applicable ✓ Energy audits ✓ Land use planning
 Awareness raising/training Energy/carbon taxes Energy management Energy certification Industrial content of the party financing, Public Private Partnerships 	applicable Energy audits Land use planning regulation
 ✓ Awareness raising/traininc ✓ Energy management ✓ Grants and subsidies ✓ Third party financing, Public Private Partnerships ✓ Energy suppliers obligations 	applicable Energy audits Land use planning regulation
 ✓ Awareness raising/training ✓ Energy management ✓ Energy management ✓ Grants and subsidies ✓ Third party financing, Public Private Partnerships ✓ Energy suppliers obligations ✓ Public procurement procurement ✓ Public lighting ✓ Energy management ✓ Third party financing, Public procurement 	applicable In Energy audits Land use planning regulation Other
 Awareness raising/training Energy/carbon taxes Energy management Energy certification //abelling Energy suppliers obligations Public lighting Energy management Third party financing, Public procurement public procurement Third party financing, Public Partnerships 	applicable I Energy audits Land use planning regulation Other C Private Other
 ✓ Awareness raising/training ✓ Energy management ✓ Energy management ✓ Grants and subsidies ✓ Third party financing, Public Private Partnerships ✓ Energy suppliers obligations ✓ Public procurement procurement ✓ Public lighting ✓ Energy management ✓ Third party financing, Public procurement 	applicable In Energy audits Land use planning regulation Other
 ✓ Awareness raising/training Energy/carbon taxes ✓ Energy management	applicable I Energy audits Land use planning regulation Other C Private Other
 ✓ Awareness raising/training	applicable I Energy audits Land use planning regulation Other Other Not applicable
 ✓ Awareness raising/training Energy/carbon taxes ✓ Energy management	applicable In Energy audits Land use planning regulation Other Other Not applicable Voluntary agreements with
 ✓ Awareness raising/training	applicable In Energy audits Land use planning regulation Other Other Not applicable Voluntary agreements with stakeholders
 ✓ Awareness raising/training	applicable I Energy audits Land use planning regulation Other Other Other Not applicable Voluntary agreements with stakeholders gulations Other
Awareness raising/training Energy/carbon taxes Energy management Grants and subsidies Energy certification Individual financing, Public Private Partnerships Energy suppliers Public procurement obligations Public lighting Energy management Third party financing, Public Partnerships Fartnerships Energy suppliers obligations Public Procurement Transport Awareness raising/training Taxation Multimodal ticketing and charging Transport access researched.	applicable In Energy audits Land use planning regulation Other Other Not applicable Voluntary agreements with stakeholders gulations Other Not applicable
✓ Awareness raising/training Energy/carbon taxes ✓ Energy management ✓ Grants and subsidies □ Energy certification ✓ Third party financing, Public /labelling Private Partnerships ☑ Energy suppliers ☑ Public procurement obligations ☐ Third party financing, Public Partnerships ☑ Energy management ☐ Third party financing, Public Partnerships ☑ Energy suppliers obligations ☑ Public procurement Transport ☑ Awareness raising/training ☐ Taxation ☑ Multimodal ticketing and charging ☑ Transport access regarders ☑ Grants and subsidies ☑ Public procurement	applicable In Energy audits Land use planning regulation Other Other Not applicable Voluntary agreements with stakeholders gulations Other Not applicable
Awareness raising/training Energy/carbon taxes Energy management Grants and subsidies Energy certification Third party financing, Public Private Partnerships Energy suppliers Public procurement obligations Public lighting Energy management Third party financing, Public Partnerships Energy suppliers obligations Public procurement Transport Awareness raising/training Taxation Multimodal ticketing and charging Transport access region Grants and subsidies Third party financing, Public Private Land use planning regions.	applicable In Energy audits Land use planning regulation Other Other Not applicable Voluntary agreements with stakeholders gulations Other Not applicable egulation

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 municipa waste
Third party financing, Public Private Partnerships	Voluntary agreements with stakeholders
Bans or restrictions on single use or non-recyclable materi	
Bans or restrictions on the discharge of untreated sewage	Not applicable
Regulations for durability, reparability and recycling in publ procurement	lic
Renewable energy generation	
Awareness raising/training Third party financing, Pub Private Partnerships	lic Land use planning regulation
Energy suppliers obligations Public procurement	Other
Grants and subsidies Building standards	Not applicable
Other areas	
Awareness raising Energy performance Avairage Avaira	Third party financing, Public Not
/training standards ☑ Energy management ☐ Energy/carbon taxes	Private Partnerships applicable I Land use planning regulation Other
	✓ Voluntary agreements with stakeholders
List up to 3 interventions per sector that could be scaled scalable interventions in place or if you want to describe Stationary energy (excluding public lightin Intervention 1 500 character(s) maximum expansion of district heating, connecting large part of resider	less than 3.
Intervention 2	
500 character(s) maximum	
increase market interventions to ensure a structural insulatio	on of buildings on a large scale
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
Transport
Intervention 1
500 character(s) maximum
expansion of zero-emission zones
expansion of zone official zones
Intervention 2
500 character(s) maximum
expansion of electric charging for vehicles
Intervention 3
500 character(s) maximum
Waste
Intervention 1 500 character(s) maximum
Juli Character(s) maximum
Intervention 2
500 character(s) maximum

Intervention 3
500 character(s) maximum
Renewable energy generation
This sould include the automaion of installed DEC sourceits.
This could include the extension of installed RES capacity
Intervention 1
500 character(s) maximum
scale up use of rooftop for solar energy
Intervention 2
500 character(s) maximum
Intervention 3
500 character(s) maximum
Other areas
Intervention 1
500 character(s) maximum
Intervention 2
500 character(s) maximum
Intervention 3
500 character(s) maximum
oo onaradon o 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 in mitigation/Greenhouse Gas (GHG) emission		•	
National government	V Fina	ancial institutions	Citizens
Regional government	Tra	de unions	Vulnerable groups
Neighbouring local/regional government	☑ NG	Os and associations	Youth & education sector
Academia / Research & Innovation (R&I) institutions	Util	ities	Other
Private sector		zen and renewable energy nmunities	
with other levels of go			government (regional
Which types of support does your city curre/national) to formulate and implement its c Policy and regulation formulation	rently limate	receive from other levels of	
Which types of support does your city curr /national) to formulate and implement its c	rently limate	receive from other levels of change mitigation policies?	nce
Which types of support does your city curre/national) to formulate and implement its c Policy and regulation formulation	rently limate	receive from other levels of change mitigation policies? Technical and strategic assistat	nce ities for projects'
Which types of support does your city curre/national) to formulate and implement its c Policy and regulation formulation	rently limate	receive from other levels of change mitigation policies? Technical and strategic assistal Financial support and opportun	nce ities for projects' on; itreach, awareness raising
Which types of support does your city curre/national) to formulate and implement its conclusion Policy and regulation formulation Capacity building Financial advisory services and resource	rently limate	receive from other levels of change mitigation policies? Technical and strategic assistant Financial support and opportund development and implementation Assistance in dissemination, our initiatives and effective communication.	nce ities for projects' on; itreach, awareness raising nication about climate
Which types of support does your city curre/national) to formulate and implement its converged Policy and regulation formulation Capacity building Financial advisory services and resource mobilisation Access to tools and skills	rently limate	receive from other levels of change mitigation policies? Technical and strategic assistal Financial support and opportun development and implementation Assistance in dissemination, ou initiatives and effective communimpacts; Regular and systemic reporting	nce ities for projects' on; itreach, awareness raising nication about climate

Technical and strategic assistance

aspects which would help most in the transition to climate neutrality.

Policy and regulation formulation

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

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

In the metropolitan area Rotterdam-The Hague muncipalities have agreed on a regional energystrategie with a clear view on the possible and desirable future sustainable energy mix in our region and mesures to ensure timely realisation of sufficient renewable energy sources. Our national government has taken the responsibility to ensure the realisation of succifient wind-energy on the north sea, which is key for the transtion in the Port of Rotterdam towards a carbon-neutral industry and activities. In collaboration with national en regional government the expansion of a regional backbone for the distribution of residual heat form the Port of Rotterdam is taking place so to deliver en secure enough heat to replace fosile gas. National legislation has/is implemented to give us the means to ensure more buildlings are decarbonized.

... 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 the Rotterdam Climate Agreement multiple private sector actors participate, where they summed up the measures they pledge to implement to contribute to the current emissionreduction targets. These private parties are toghether responsible for the biggest part of private sector emmissions. For the various sectors (port, mobility, build envormenet, etc) roundtbles has been set up in which private and public parties are collaborating on implementing the measures, drawing up new ones and monitor the effects.

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 . Ad-hoc co-creation engagement actions practices Informative practices and awareness-raising events Educational activities and programmes Participatory budgeting to prioritise actions Other Participatory urban planning None Does your city have existing programmes/projects that engage citizens in climate change mitigation /GHG emissions reduction policies? Yes O 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

Varous citizens and representatives are involved in the Rotterdam Climate Agreement and the corresponding roundttables. We supported the setting up of Platforms for specific groups (local energy corporations, associations of house owners) to exchange best pratices and take collective action. Further, we offer grants to citizens initiatives that contribute to a sustainable city. In the execution phase of energy-projects citizens are actively organised so to deliver input and co-shape the plans.

these programmes/projects could be scaled up at other levels (e.g., lessons learnt that could be applicable

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) or sharing mobility
- Reducing overconsumption and favouring ethical consumption of goods

elsewhere or replicated at other governance levels (national, regional, etc.)).

- Reducing and 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.

1	Awareness-raising campaigns		One stop shops	1	Nudges
√	Incentives/disincentives	1	Workshops		Other
1	Bans and mandates	1	Infopoints		None

... 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 focusing also on climate change mitigation; participation in peer exchange programmes; collaboration in related projects; joint development of policies/programmes etc.

We participate in various networks with other municipalities on the topic of climate change. Some are general networks which cover broader goals, like the Association of Dutch Municipalities and the G4 (4 biggest cities in The nederlands), and some specific for the various actions in battling climate change; regional energy strategy, city network on district heating, wind.

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
Leve	0	0	0	0	0	•

... 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

The Metropolitan Area Rotterdam - The Hague (MRDH) has two universities, numerous institutions for higher vocational training and a top research institutions TNO, with which exist numerous partnerships on a diversity of topics related to battling climate change. Many of them are also participant in the Rotterdam Climate Agreement or intending to. But collabortion exist also with institutions outside the MRDH< depending on the specific expertise. They provide us with a wide range of knowledge, varying form new more efficient techniques to governance issues.

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

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 action 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 choose the answer option that best describes your current situation.

- O 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.

Together with multiple muncipalities and the Province of South-Holland we've founded Innovation Quarter, our regional developement agency, which help setting up business cases for a diversity of sustainable projects making them feasible for private funding. They control the regional investment platform, formed on our Roadmap Next Economy and also are responsible for the recently set-up Energy Transition Fund. Further on specific projects collaboration has taken place with InvestNL, the naitonal developement company and the European Investment Bank.

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, payback periods, detailed benefits etc.

- O No
- We are just starting with a climate action plan
- We have a pipeline of projects that are ready for investment
- We 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?

use a common resource, with a benefit; or green bonds, which are debt in	nstruments that are traded in capital
markets. Social Impact Bonds (or SIBs) are a results-based form of social	al impact investment, whereby private
investors provide capital to launch or expand innovative social services the	nat deliver a public good. See InfoKit, Part
II, Chapter 9 for further information.	
□ No	Energy performance contracting
We are analysing options for implementing innovative financing	Social impact bonds
instruments	
Crowdfunding schemes	Other innovative financing
	instruments
Green bonds	

Examples include crowdfunding schemes, which are financial vehicles where individuals have an option to own or

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.

Another 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	e indicate the fields in	whi	ch your city has the legal po	we	rs to act/make policy de	cisions
1	Buildings & Construction	V	Waste/wastewater managemen	ıt🔲	Water Resource	Public
					Management	health
1	Economic development	V	Industrial emissions	1	Air quality	Other
V	Energy demand in		Agricultural emissions	1	Environment	
	buildings					
V	Energy supply	1	Urban land use		Disaster risk	
V	Transport	V	Green spaces / Green	√	Finance & Investment	
			infrastructure			

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.

A dedicated department 'sustainability' has been set up in 2019, part of the direction for Economy and Sustainability. Cross-department coordination has been set up within the framework of the Rotterdam Climate Agreement. For the large scale developement of renewable energy sources coordination takes place between municipalities and province with the framework of the Regional Energystrategie.

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

We're currently evaluating the governancestructure that has been set up for the Rotterdam Climate Agreement so to advise our upcoming administration on the way to proceed. As set out in the vision section, a stronger mission oriented approach may be needed to benefit in full of the envisoned collaboration.

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 to this work
- O 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

O 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
Other

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

Yes

O 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)	•	0	0	0	0
Transport (incl. vehicle km travelled, mode share, infrastructure)	•	0	•	•	0



Energy

If you	selected "E	nergy (generation	and cor	sumption)"	, please	specify	the typical	frequency	of the
data c	ollection/re	porting								

At least annually

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

Only values between 2000 and 2021 are allowed 2020

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

- Residential buildings
 Street lighting
 District heating/cooling
 Commercial buildings and facilities
 Institutional buildings and
 Non-renewable energy
 Local heat/cold storage
- facilities generation

 Industrial buildings and facilities Co-generation Other

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

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

Only values between 2000 and 2021 are allowed 2020

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 hoping on/off on particular stop, the intensity of public transport usage etc.

- Public transport (mode share)
 Walking (mode share)
 New transport technologies

(vehicle km traveled or similar)
Waste/wastewater (generation, collection and treatment)
If you selected "Waste/wastewater (generation, collection and treatment)", please specify the typic frequency of the data collection/reporting
At least annually
If you selected "Waste/wastewater (generation, collection and treatment)", please specify the year
of the latest data collection/report Only values between 2000 and 2021 are allowed
2020
2020
sectors/sources are included Private homes/households Public services (i.e. schools, hospitals, municipal buildings etc.) Businesses/industry Other
Does your city work in partnership with other stakeholders to collect data on issues that concern of are linked to climate change mitigation?
Yes
O 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
Monitoring & evaluation evetems for existing plans

Micromobility (mode share) Other

Urban freight and logistics

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	•	0	0	0	0
Evaluation	•	0	0	0	0
Update	0	0	0	0	0

Disclosure

is your city regularly disclosing on climate action and the progress towards achieving	its chilate
targets?	
Yes	
O No	
If yes, please specify the frequency of disclosure	
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	
Only values between 2000 and 2021 are allowed	
2021	
If yes, please specify the way of disclosing	
Through MyCovenant Through national platforms/systems (pleaspecify)	se Other
Through CDP Cities (CDP/ICLEI Unified	/)
If you selected national, own or other, please specify	
100 character(s) maximum	
Annual discosure of estimated effects of the Rotterdam Climate Agreement actions	

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

	Slow/disaggregated authorisation process		Lack of enabling policy at EU level
	Slow/disaggregated financial process	1	Lack of available technologies to eliminate
			Greenhouse Gas emissions in certain sectors or
			applications
	Insufficient administrative and/or operational capacity		Fragmentation of responsibilities
1	Regulatory red tape		Difficulties in building collaborations between public
			and private sectors
	Lack of digitalisation	1	Uncertainty about regulation and taxation
	Lack of circularity		Prohibitive investment costs
	Lack of consolidated monitoring, reporting and		Geomorphic/topographic limitations/challenges
	verification procedures		
	Lack of industrial support in providing the necessary		Growth schemes limitations/challenges
	services		
	Lack of market competition		Climatic limitations/challenges
	Lack of citizen participation and proactiveness	1	Lack of funding/financing schemes
	Lack of effective and sustainable policy at local level		Lack of technical or commercial skills and
			information
1	Lack of enabling policy at Member State level	1	Other

If other, please specify

100 character(s) maximum

market failure in offering affordable sustainable services.

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, please consider local specificities that may require devising bespoke countermeasures, not readily available.

As set out in the overal vision, some of the current measures suffer from a lack of (financial, regulatory) certainty to take the step towards execution. Further, uncertainties exist (known, unknown) which can not be adressed up front. This confronts us with the situation in which the time needed for execution to reach the 2030 goals is almost insufficient and has to take place where these barriers (for a part) will stil exist. Collaboration is needed to find ways to execute measures parallel on the still ongoing decision-making processes.

Sector-specific

What barriers/gaps/assistance needs specific to the <u>energy sector</u> 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 disproportionally 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.

	Subsidies for competing fuels		Tendency to overlook environmental externalities
	High initial capital costs		Lack of legal framework for independent power
			producers
	Difficulty of fuel price risk assessment	1	Restrictions on siting and construction
V	Unfavourable power pricing rules		Transmission access
	Lack of effective and sustainable energy policy at		Excessive requirements for liability insurance
	local level		
V	Lack of enabling energy policy at Member State level		Lack of access to credit
	Lack of enabling energy policy at EU level	V	Perceived technology performance uncertainty and
			risk
	Technical regulations		Site specific constraints
	Transaction costs		Other

What barriers/gaps/assistance needs specific to the <u>transport sector</u> 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.eui. 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). 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-itsstance/)

	Subsidies for competing fuels		Lack of enabling transport policy at EU level
	High initial capital costs	1	Spatial dispersion or uneven accessibility
	Lack of cross-modal ticketing and payment systems		People's time and economic constraints in the use
	(to encourage modal shift)		of public transport
1	Insufficient flexibility in changing urban forms and	1	Infrastructural and planning barriers to active travel
	functions (to reduce trip lengths)		(lack of side walks, cycling lanes, etc.)
	Insufficient ICT access in remote areas (to reduce		Psychosocial barriers to active travel (risk of
	the need to travel)		collision and injury and/or exposure to crime and verbal offense)
	Inefficient or non-existent time-variable road pricing		Psychosocial barriers to public transport use (risk o transmission of infections, exposure to crime and verbal offense)
	Insufficient technological availability		Psychosocial barriers to automated transport systems (such as driverless shuttles)
	Lack of effective and sustainable transport policy at local level		Site specific constraints
	National tax regimes that incentivise car ownership /use		Other
V	Lack of enabling transport policy at Member State level		

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	OURODO OU/Por	aData/atudaa/PD	IE/2015/550402/EDDC	DDI/2015\550402	ENLodf
See niins://www.euronari	Leurona eu/Rei	di Jara/erildes/BB	1E/2015/559493/EPBS	BBI(2015)559493	

ee h	ttps://www.europarl.europa.eu/RegData/etudes/BRIE	/201	5/559493/EPRS_BRI(2015)559493_EN.pdf
	Insufficient waste separation and quality of		Difficult balancing between promoting recycling and
	separated waste		protecting consumers against harmful chemical substances in recycled materials
1	Inefficient recycling processes		Slow behavioural transformation, including cultural
			barriers
	Insufficient data collection		Limited community engagement and support
	Inefficient energy recovery of waste		Spread of illegal practices in shipping, dumping or
			burning waste
V	Ineffective waste prevention	1	Lack of infrastructure for circular economy measures

Lack of effective and sustainable waste		Weaker norms outside the EU which incentivise
management policy at local level		waste export
Lack of enabling waste policy at Member State level	V	Downcycling
Lack of enabling waste policy at EU level		Other

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	0	•	0	0	0
The city can rely on favourable economic conditions such as high salaries/tax revenues	•	©	0	©	0
The city can rely on a supportive local research environment	0	0	0	•	0
The city can rely on a fast authorisation process	0	0	0	•	0
The city can rely on a fast funding/financing process	0	0	0	0	0
The city can rely on a consolidated communication platform with proven success in disseminating climate awareness	0	0	0	•	0
The city can rely on its own funding schemes and moderately resorts to external funding for its climate policies	0	0	0	•	0
The city can rely on favourable geo-climatic conditions (e.g., proximity to water bodies, moderate occurrence of climate extremes)	•	0	0	0	0
The city cannot rely on any of the above favourable conditions, but major obstacles to climate neutrality are not expected	•	©	0	0	0
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	0	0	0	0	•
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.	0	0	•	0	0
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	0	0	0	•	0
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)	0	0	0	0	•

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



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

1500 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.

The city of Rotterdam is extremely vulnerable to climate change, due to its location in a delta. At the same time, the population has one of the lowest average incomes in The Netherlands and vulerable to economic change. We are confident that we can turn these unfavourable conditions into opportunities to benifit all and be an example for other cities. Especially with also a large industry situated within our borders, we can demonstrate to cities in similair conditions how to combine the transitions in city and port, on an mutual integral way,that strengthen our cities. For example, the current and expected supply of residual heat is sufficient to deliver enough heat for all of our homes, therby saving the scarces renewable electricity for other functions. Our track record proves we can be a frontrunner in making the impossible, possible on new innovative ways. We are confident that if the energy transition doesn't succeed in Rotterdam, knowhere can. Rotterdam makes it happen!

Risk assessment

For any of the risk categories listed in the table below, please identify and comment on <u>high-impact</u> and <u>high-likelihood</u> 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

to be assessed

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

to be assessed

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

to be assessed

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

to be assessed

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

to be assessed

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

to be assessed

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

to be assessed

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)

to be assessed

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

to be assessed

Background Documents

Codes and IDs

Language versions

Personal data protection statement

Technical data policy

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Contact

Contact Form