Global Covenant of Mayors
Common Reporting Framework

Version 6.0

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1. Introduction

1.1. About the Global Covenant of Mayors

The Global Covenant of Mayors for Climate & Energy (GCoM) is the world’s largest alliance of cities and local governments with a shared long-term vision of promoting and supporting voluntary action to combat climate change and move to a low emission, climate resilient future. This coalition gathers thousands of cities of all sizes across 6 continents and more than 120 countries, representing almost 10% of the world’s population.

Through the GCoM, cities and local governments are voluntarily committing to fight climate change, mirroring the commitments their national governments have set to ensure the goals of the Paris Agreement are met. It is a commitment to not only take bold local action but to also work side-by-side with peers around the world to share innovative solutions that enable mayors to do more, faster. GCoM cities connect and exchange knowledge and ideas, supported by relevant regional stakeholders.


1.2. About the Regional Covenants

Regional and National Covenants already exist or are being developed with the aim of supporting cities and local governments in different regions all around the world, operating under the shared vision of the GCoM and principles and methods that best suit each region.

A Regional/National Covenant consists of all relevant local, regional and national partners and city networks that support and contribute to the implementation of the mission and vision of the Global Covenant of Mayors for Climate and Energy in a given geographic area. Regional/National Covenants tailor the GCoM to regional realities, ensuring effective implementation that is in line with regional or national priorities.

1.3. About the GCoM common reporting framework

Local governments committed to GCoM pledge to implement policies and undertake measures to: (i) reduce/limit greenhouse gas emissions, (ii) prepare for the impacts of climate change, (iii) increase access to sustainable energy, and (iv) track progress toward these objectives.

In order to ensure solid climate action planning, implementation and monitoring phases, as well as streamline measurement and reporting procedures, a set of new global recommendations were developed with the intention to be flexible to meet specific local or regional circumstances while also allowing for global aggregation and comparison of data. Together, the GCoM movement will be able to showcase achievements and track progress transparently – and thus advocate with cities and city networks in the various regions and nations for better multilevel governance of climate and energy issues with decision makers at all levels of government, and for improved technical and financial support. A common reporting language of the Global Covenant of Mayors will unite local voices and raise the bar, also for other climate stakeholders.

GCoM formally brings together the European Covenant of Mayors and the Compact of Mayors, the world’s two primary initiatives of cities and local governments, to advance their transition to a low emission and climate resilient economy.
The following recommendations have been developed by a team of multi-disciplinary experts from GCoM partners (see list in Annex A) with the aim of providing a harmonized definition of a common reporting framework. They have been designed considering local governments’ needs and a step-wise approach on meeting GCoM commitments and are built upon already existing and broadly used frameworks for reporting on climate change: the Compact of Mayors and the European Covenant of Mayors (e.g. regional versions developed in Europe and Eastern Europe), merging common elements that can serve the efforts of GCoM-committed local governments around the globe in achieving their objectives, and considering national and regional contexts.

1.3. About the consultation process

After in-depth discussions among experts, a draft version was open for stakeholders’ review and comments in the period 30 April – 21 June 2018. This period of consultation with cities and local stakeholders in all regions refined the proposed reporting framework in order to ensure it well embraces the vast variety of realities and effectively supports local efforts to take climate action.

The following sections present the reporting frameworks for the following topic areas: (i) greenhouse gas emissions inventory; (ii) target setting; (iii) risk and vulnerability assessment; and (iv) climate action and energy access planning.

1.4. Next steps

The present recommendations were refined based on the outcomes of the consultation process to ensure they best meet local governments’ needs and finalized as the common global reporting framework. From this point, the framework can then be adapted to suit each regional context (if needed).

More information will follow on: (i) guidance and technical tools to support local governments and cities in planning and achieving their climate goals; (ii) technical assistance and capacity development for local governments; (iii) updates on reporting platforms for 2019 as well as (iv) procedures related to data collection, data management (and access), data validation, analysis and dissemination.

Further guidance and technical tools will be provided in the implementation phase.
2. Definitions

The terms “cities” and “local governments” are used throughout this document, understanding that the geo-political institutions of local governments may vary from country to country and terminology used may differ. In this document, a city refers to a geographical subnational jurisdiction ("territory") such as a community, a town, or a city that is governed by a local government as the legal entity of public administration. The term “city boundary” refers to a local government’s administration boundary.

2.1. Proposed reporting levels

This reporting framework uses precise language to indicate which provisions are requirements and which are optional, as follows:

- The term “shall” is used to indicate what is required (indicated as “mandatory” in the annexes).
- The term “should” is used to indicate a strongly advised recommendation, so is not a requirement (indicated as “recommended” in the annexes”).
- The term “may” is used to indicate an option that is permissible or allowable that local governments may choose to follow (indicated as “optional” in the annexes).

Flexibility has been built into this reporting framework to accommodate limitations in data availability and differences in emission sources between local governments (see section 3.2. on notation keys).

2.2. General Principles

The general principles below are applicable to all topic areas presented in this document:

- The reporting framework allows flexibility to suit differentiated local circumstances and needs, such as: (i) the use of different methodologies under the IPCC framework, (ii) varied access to necessary and quality data, (iii) recognizing that local governments of smaller communities may have less capacity, and (iv) relevance to all geographical locations.
- The reporting framework allows for consistency with national and/or sub-national requirements for local governments within their own national contexts. It is also designed specifically to consider the UNFCCC’s framework for reporting under the Paris Agreement (work in progress on enhanced framework) and, as such, ensure overall consistency with the IPCC framework.
- Greenhouse gas (GHG) emissions inventories, risk and vulnerability assessments, target(s) and goal(s), identifying hazards, climate and energy access plans should be relevant to the local and regional situation, reflecting the specific activities, capacity and regulatory context of the local government.
- The proposed framework allows for the continuation of the reporting requirements by current European Covenant- and Compact-committed cities and local governments.
• Local governments may develop joint GHG inventories, targets, and/or action plans with the neighbouring community(ies).

• Local governments shall report in a way that enables meaningful comparison and aggregation with other cities.

3. Greenhouse Gas Emissions Inventory

The following GHG reporting framework is built upon the Emission Inventory Guidance, used by the European Covenant of Mayors and the Global Protocol for Community-Scale Greenhouse Gas Emission Inventories (GPC), used by the Compact of Mayors. Both refer to the 2006 Intergovernmental Panel on Climate Change (IPCC) Guidelines for National Greenhouse Gas Inventories.

Local governments shall submit their greenhouse gas emissions inventory to GCoM within two years upon joining GCoM. Every subsequent two years, or as set by regional GCoM offices, a more recent greenhouse gas emissions inventory shall be submitted to GCoM. Greenhouse gas emissions inventories shall cover a consecutive period of 12 months.

3.1. GHG Accounting Principles

In addition to the general reporting principles mentioned in section 2.2 above, local governments shall follow the GHG accounting principles outlined below:

• The inventory shall be relevant to the local and regional (where relevant) situation: reflecting the specific activities and policy-making needs of the city; taking into account its capacity and regulatory context.

• Local governments shall consider all categories of emission sources and report all emissions that are significant. Exclusion of emission sources shall be disclosed and justified, using the notation keys in the reporting template.

• Local governments shall compile GHG inventories on a regular basis, to enable monitoring and tracking the impact of climate actions, also to ensure continuous improvement in data quality, resulting in a clearly defined inventory boundary, improved data sources and defined methodologies that shall be consistent through the years (e.g., clarify where there is an evolution, e.g. population growth), so that differences in the results between years reflect real differences in emissions and mitigation efforts by the local government and the city.

• Local governments shall ensure sufficient accuracy to give local decision makers and the public reasonable assurance of the integrity of emissions reported. Efforts shall be made to reduce uncertainties and make improvements over time.

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2 Considering that the IPCC is busy revisiting the 2006 IPCC Guidelines, changes will also be studied and accommodated for the GCoM, as relevant.

3 Inventory should be submitted to the GCoM secretariat where a Regional or National Covenant does not exist.

4 Notation keys should be used when an emission source is not occurring, included elsewhere, not estimated, or confidential.
To the extent possible, all relevant activity data\textsuperscript{5}, data sources, methodologies, assumptions, exclusions and deviations shall be documented and reported, to allow for review, replication of good practice, and tackling challenges identified (e.g., lack of access to data in country X).

3.2. Notation Keys

Notation keys may be used to accommodate limitations in data availability and differences in emission sources between local governments. Where notation keys are used, an accompanying explanation shall be provided.

The following are the descriptions on how to use the notation keys:

- **“NO”** (not occurring): An activity or process does not occur or exist within the city. This notation key may also be used for insignificant sources.

- **“IE”** (included elsewhere): GHG emissions for this activity are estimated and presented in another category in the same inventory, stating where it is added. This notation key may be used where it is difficult to disaggregate data into multiple sub-sectors.

- **“NE”** (not estimated): GHG emissions occur but have not been estimated or reported, with a justification why.

- **“C”** (confidential): GHG emissions which could lead to the disclosure of confidential information, and as such are not reported publicly.

Further guidance on the use and application of notation keys will be provided in the implementation phase.

3.3. Emission Sources

Local governments shall report GHG emissions from at least three main sectors, namely stationary energy, transportation, and waste. The detailed reporting requirements are described in the following subsections.

Local governments should also report GHG emissions from Industrial Processes and Product Use (IPPU) and Agriculture, Forestry and Other Land Use (AFOLU) sectors\textsuperscript{6} where these are significant.

Additionally, local governments may report GHG emissions from upstream activities, such as material extraction, or other out-of-boundary sources.

Further guidance on the reporting of emissions from IPPU, AFOLU and other sources will be provided in the implementation phase.

(1) Stationary energy

- All GHG emissions from fuel combustion and the consumption of grid-supplied energy, in stationary sources within the city boundary shall be reported.

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\textsuperscript{5} Activity data is a quantitative measure of a level of activity that results in GHG emissions taking place during a given period of time (e.g., volume of gas used, kilometres driven, tons of solid waste sent to landfill, etc.).

\textsuperscript{6} Please refer to 2006 IPCC Guidelines for National Greenhouse Gas Inventories for more details on these sectors.
● The emissions data shall be disaggregated by residential buildings, commercial buildings and facilities, institutional buildings and facilities, industry\(^7\) and agriculture, forestry, and fisheries.

● GHG emissions from sources covered by a regional or national emissions trading scheme (ETS), or similar, should be identified.

● All fugitive emissions within the city boundary shall be reported.

(2) Transportation

● All GHG emissions from fuel combustion and use of grid-supplied energy for transportation within the city boundary shall be reported and disaggregated by mode: on-road, rail, waterborne navigation, aviation, and off-road.

● Waterborne navigation, aviation, and off-road are unlikely to occur or be significant in most cities. Where they are significant sources, GHG emissions shall be included, unless they occur as part of transboundary journeys, in which case the notation key “Included Elsewhere” (IE) may be used (see below for more details). Where these sources do not occur, the notation key “Not Occurring” (NO) shall be used; where they are not significant, the notation key “NO” may be used (see section 3.2. for more details on the notation keys).

● Local governments should further disaggregate road and rail travel by fleet type: municipal fleets, public, private and commercial transport.

● Local governments may use the fuel sales, geographic (territorial), resident activity and city-induced methodologies\(^8\) to estimate activity. They should identify the methodology used. Depending on the methodology used, data availability, and where such activities occur, local governments may choose to report GHG emissions from the inboundary component of domestic and/or international waterborne navigation and aviation (such as the landing and take-off cycle for aviation), or assume these are all out of boundary emissions and use the notation key “Included Elsewhere” (IE, see section 3.2) instead.

Further guidance on the use and application of transport system data collection methodologies will be provided in the implementation phase.

(3) Waste

● All GHG emissions from disposal and treatment of waste and wastewater generated within the city boundary shall be reported and disaggregated by treatment type.

● Where waste is used for energy generation\(^9\), GHG emissions do not need to be reported. Instead, the notation key IE should be used (see section 3.2. for more details on the notation keys). Instead, these GHG emissions will be captured in the inventory through the use of heat or electricity generated from the treatment of waste.

\(^7\) This includes all emissions from energy use in industrial facilities, construction activities, and energy industries, except emissions from the generation of energy for grid-distributed electricity, steam, heat and cooling.

\(^8\) Please refer to the Global Protocol for Community-Scale Greenhouse Gas Emission Inventories (GPC) or the European CoM Guidebook for further details on these methodological approaches.

\(^9\) For example, household waste sent for incineration; or sludge from wastewater.
3.4. Energy generation

Additionally, local governments shall report GHG emissions from energy generation activities. To avoid double counting, these shall not form part of the GHG emissions inventory total, and will be reported under an “Energy Generation” sector, where:

- All GHG emissions from generation of grid-supplied energy within the city boundary, and all GHG emissions from generation of grid-supplied energy by facilities owned (full or partial) by the local government outside the city boundary shall be reported and disaggregated by electricity-only, combined heat and power (CHP), and heat/cold production plants.

- GHG emissions from sources covered by a regional or national emissions trading scheme (ETS), or similar, should be identified.

- In addition, local governments should report all activity data for distributed local renewable energy generation.

3.5. Activity Data and Emission Factors

In addition to GHG data, the reporting framework requires local governments to report activity data and emission factors as follow:

- Local governments shall report activity data (in MWh, PJ, etc.) and emission factors for all sources of emissions, disaggregated by activity/fuel type.

- Local governments should use activity-based emission factors (also referred to as IPCC emission factors), though may use Life-Cycle Analysis (LCA) based emission factors where this is required for GHG emissions reporting at the national level. Where local governments use LCA emission factors, they shall also consent to GCoM recalculating and reporting their inventory using standard activity-based emission factors to enable the comparability and aggregation of city inventories. Local governments shall specify whether the emission factor used to estimate GHG emissions from the consumption of grid-supplied electricity is locally estimated or covers a regional, national or supranational grid. In all cases, the emission factor used shall be fully referenced.

- Local governments shall account for emissions of the following gases: carbon dioxide (CO₂), methane (CH₄), and nitrous oxide (N₂O)¹⁰.

- GHG emissions shall be reported in metric tonnes of CO₂ equivalent (CO₂e)¹¹. Where possible, local governments should report CO₂e emissions by individual GHG.

- Emissions from biogenic carbon are not required to be reported. Where they are reported, this shall be categorized separately and will not be counted in emissions totals.

¹⁰ When reporting IPPU, it will include hydro fluoro carbons (HFCs), perfluorocarbons (PFCs), sulfur hexafluoride (SF₆), and nitrogen trifluoride (NF₃).

¹¹ CO₂ equivalent can be determined by multiplying each gas by its respective global warming potential (GWP). The IPCC Assessment Report used for the GWP factors should be clearly referenced (i.e. FAR; SAR; TAR; AR4; AR5).
4. Target Setting

All local governments and cities are required to set and report city-wide emissions reduction targets. The GCoM defines eight categories of requirements for target setting, as explained below.

Local governments shall submit their greenhouse gas emissions reduction target(s) to GCoM within two years upon joining GCoM.

(1) Boundary (geographic coverage, sectors, and GHGs)

The target boundary shall be consistent with all emissions sources included in the GHG emissions inventory, with the possibility to exclude sources that are not controlled by the local government. In case that the target boundary does not align with the inventory boundary, any additions or exclusions shall be specified and justified. All exclusions shall be indicated by the notation key “Included Elsewhere” (IE), along with clear justification. Local governments are recommended to report any sector-level targets alongside their city-wide target(s).

(2) Target type

Local governments shall use one of the following four target types: base year emissions target, base year intensity target, baseline scenario target, or fixed level target. For a baseline scenario target, the modelling methodologies, and parameters shall be transparently described.

| Base year emissions target: Reduce, or control the increase of, emissions by a specified quantity relative to a base year. For example, a 25% reduction from 1990 levels by 2030. |
|------------------|------------------|------------------|------------------|
| Base year intensity target: Reduce emissions intensity (emissions per unit of another variable, typically GDP or capita Gross Domestic Product – GDP or per capita) by a specified quantity relative to a base year. For example, a 40% reduction from 1990 base year intensity by 2030. |
| Baseline scenario target: Reduce emissions by a specified quantity relative to a projected emissions baseline scenario. A Business as Usual (BaU) baseline scenario is a reference case that represents future events or conditions most likely to occur in the absence of activities taken to meet the mitigation target. For example, a 30% reduction from baseline scenario emissions in 2030. |
| Fixed-level target: Reduce, or control the increase of, emissions to an absolute emissions level in a target year. One type of fixed-level target is a carbon neutrality target, which is designed to reach zero net emissions by a certain date (e.g., 2050). |

(Source: Greenhouse Gas Protocol Mitigation Goal Standard)

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12 Please note that the local government’s administrative boundary may go beyond the city’s geographic boundary. According to the GCoM all the emission within the “city boundary”, even beyond the geographic boundary, shall be reported to the GCoM.

13 For example, some European cities’ targets do not include emissions sources that are already included in the EU Emissions Trading Scheme.

14 Please refer to the Greenhouse Gas Protocol Mitigation Goal Standard for more details on these target types.
(3) Target year

The target year shall be the same as, or later than, the target year adopted in the Nationally Determined Contribution (NDC) or as set by Regional/National Covenants. Cities that set a target year beyond 2030 shall also include an interim target between now and 2030.

If the NDC target is before 2030, cities should additionally set a target for 2030.

(4) Base year (only for base year emissions target and base year intensity target)

The base year should be the same as the base year used in the NDC or as set by Regional/National Covenants. Where the base year is different from the NDC (e.g. where a city has previously adopted another base year or due to a lack of data availability), this shall be explained.

(5) Ambition

At a minimum, the target shall be as ambitious as the unconditional components of the NDC (see also footnote 15). Local governments should set targets that are more ambitious than the NDC. When a national government increases their NDC, local governments shall have a maximum of five years to ensure their target remains as ambitious as the unconditional components of the NDC.

Where target (and base/scenario) years are different between the local government and NDC, GCoM will apply linear interpolation to both targets to determine whether the above requirement is met.

(6) Units

Targets shall be reported as a percentage (%) reduction from the base year or scenario year (for base year emissions, base year intensity and baseline scenario targets). The absolute emissions in the target year(s) in metric tonnes CO\textsubscript{2}e shall also be reported for all target types.

If possible, the same approach should be chosen as is the case for the NDC target.

(7) Use of transferable emissions

The use of transferable emissions units is only permissible when a local government’s target ambition exceeds the unconditional components of the NDC. Where this is the case, the local government shall report the target, with and without the transferable emissions units, as well as identify the source of the transferable emissions units. Further guidance on the use of transferable emissions will be provided in the implementation phase.

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15 See e.g. UNFCCC NDC List, Climate Tracker, CLIMATEWATCH
16 Many countries have submitted two sets of NDC targets: unconditional targets, to be implemented without any explicit external support; and conditional targets. The latter are more ambitious than unconditional targets and require external support for their fulfilment. This includes financial support, and policies or action in other countries which support or facilitate a given country’s mitigation policy (e.g. adoption of carbon taxes in a particular country may be conditional on the widespread use of carbon taxes in other countries, to ensure that domestic industry is not unduly impacted).
17 These are emissions allowances and offset credits from market mechanisms outside the target boundary that are used toward meeting a target. Please refer to the Greenhouse Gas Protocol Mitigation Goal Standard for more details.
(8) Conditionality

The use of conditional components is only permissible when a local government’s target ambition exceeds the unconditional components of the NDC. Any conditional components included in the target shall be identified and, where possible, the conditional components should also be quantified. Conditional components include where cities set a stretch target, or where actions are identified for other key stakeholders beyond that which they have committed to themselves (for example, where a local government assumes a more ambitious reduction in the carbon-intensity of the national electricity grid than that committed to in the NDC or official government policy).
5. Risk and Vulnerability Assessment

The following reporting framework for risk and vulnerability assessments is built upon the reporting guidance used by the Compact of Mayors and the European Covenant of Mayors. This section provides requirements for risk and vulnerability assessments that form part of the climate change adaptation (resilience) plans, also understanding hazards and the adaptive capacity of the local government and community. Please refer to Annex D: Risk and Vulnerability Assessment Reporting Framework for further details.

5.1. Climate Risk and Vulnerability Assessment

The local government shall prepare and submit climate risk and vulnerability assessment within two years after committing to the GCoM.

The assessment shall include the following information:

- Boundary of assessment (boundary of assessment shall be equal to or greater than the city boundary), including the local government(s) name(s)
- Year of approval from local government
- Data sources
- A glossary of key terms and definitions
- Leading/coordinating team in the city

Terminologies and definitions used in the reports shall be consistent with those used in the IPCC Fifth Assessment Report (AR5) or any update following the AR5 as well as with national frameworks/requirements.

5.2. Climate Hazards

The local government shall identify the most significant climate hazards faced by the community. For each identified climate hazard, the local government shall report the following information:

- Current risk level (probability x consequence) of the hazard
- Description of expected future impacts
- Expected intensity, frequency, and timescale of the hazard
- All relevant sectors, assets, or services that are expected to be most impacted by the hazard in future and the magnitude of the impact for each of them

Furthermore, the local government should provide information on vulnerable population groups (e.g. poor, elderly, youth, people with chronic disease, unemployed, etc.) that are expected to be most affected by future hazards; this information can help the local government in having a better understanding of the vulnerability dimension of risks and in prioritizing their adaptation actions.

See Annex D, Table 1 for further details.
5.3. Adaptive Capacity

The local government shall identify factors that will most greatly affect its own and the city’s adaptive capacity and enhance climate resilience. For each factor, the local government shall report the following information:

- Description of the factor as it relates to (supporting or challenging) the adaptive capacity
- Degree to which the factor challenges (as opposed to supports) the adaptive capacity and obstructs enhanced climate resilience

See Annex D, Table 2 for further details.

5.4. Major Climate Hazards Occurred in the Past Years

Besides the assessment of future hazards, the local government shall report the following information about major hazards that occurred in the past years:

- Scale of the hazard, including loss of human lives, economic losses (direct and indirect, if possible), environmental and other impacts
- Current risk level of the hazards (probability X consequence)
- Intensity and frequency of the hazard
- All relevant sectors, assets, or services most impacted by the hazard and the magnitude of impact for each of them
- Vulnerable population groups most affected by the hazard (if available)

6. Climate Action and Energy Access Plan(s)

This section includes two elements, namely climate action plans and energy access plans. The climate action plan requirements outlined in this section are applicable to both mitigation and adaptation plans (or integrated plans). The energy access plan can be submitted in the same document as the climate action plan(s) or in a separate document.

6.1. Climate Action Plans

Local governments shall develop plans for both climate change mitigation and adaptation (climate resilience), which may be presented in separate plans or an integrated plan. The plans should be in an official language used by the local government. Local governments shall submit their climate action plans to GCoM within three years upon joining GCoM (see section 7).

All action plan(s) shall include the following information for both mitigation and adaptation actions:

- Description of the stakeholder engagement processes
● Mitigation target(s) and/or adaptation / climate resilience goal(s); including (if available) sectoral targets

● All actions of priority sectors (identified from GHG emissions inventories and risk/vulnerability assessments)

● Descriptions for each action

● The local government(s) which formally adopted the plan and the date of adoption

● Synergies, trade-offs, and co-benefits of mitigation and adaptation actions

● Lead author team/Action Plan responsible/coordination team in the local governments

The mitigation target(s) shall be in line with requirements outlined in section 4 above. For adaptation goals, local governments shall report the goal descriptions (shall be aligned with the risks identified in the risk and vulnerability assessment (see section 5)), delivery date, and baseline year. Local government should also report the metric (or key performance index) for tracking the progress and monitoring plans.

For each action/action area/sector, the action plans shall provide the following information:

● Brief description of the action/action area/sector

● Assessment of energy saving, renewable energy production, and GHG emissions reduction by action, action area or sector (only applicable to mitigation actions).

For each action/action area/sector, the action plans should provide the following information:

● Financial strategy for implementing the action/action area/sector

● Implementation status, cost and timeframe

● Implementing agency(ies)

● Stakeholders involved in planning and implementation

In additional, local governments should also provide the following information in the action plans:

● Prioritization of actions

● Policy instrument(s) to implement the actions

Local governments are encouraged to report actions in as much detail as possible.

18 Cities require massive and targeted investment in order to deliver low carbon and resilient infrastructure for their populations. Through partnerships with the EIB, EBRD, World Bank and other IFIs, GCoM is helping to fill the existing urban financing gap by providing cities with new levels of access to investments, technical assistance and advice and new partnerships are under developments. Disclosure of projects contained in Climate Action Plans with the related financial information is critical to better evaluate what new levels of access to investments, advice and financing are critical and additional to existing efforts to realizing cities’ ambitious climate commitments. Such disclosure and transparency increases investors’ confidence on the city’s ability to deliver with accountability and good governance. Further guidance on project development and financing will be provided alongside these recommendations.
6.2 Monitoring

The local government shall submit monitoring reports every two years after submitting the action plan(s). The monitoring reports shall provide information about the implementation status of each action/action area/sector contained in the action plan, helping to monitor progress made. The local government shall update and resubmit the action plan(s) when there are significant changes to the existing plan(s). The local government should also report the implementation cost for each action/action area/sector.

Further details on the reporting requirements and frequency can be found in section 7 and Annexes B-E.

6.3 Energy Access Plan

All local governments shall report their energy access plans. However, at this stage, the detailed reporting framework is still being defined by the GCoM. Further consultation will be carried out before local governments are required to submit their energy access plans (which may be already a component of their Climate Action Plans).

In general, energy access refers to “access to secure, sustainable and affordable energy”. It is in line with the Sustainable Development Goals (SDG), in particular SDG 7 “Access to affordable, reliable, sustainable and modern energy for all”, and the Sustainable Energy For All (SEforALL) Initiative, which aims to ensure universal access to modern energy services.

An energy access plan typically includes three components:

(1) Access to secure energy

- Reduce energy demand (i.e. energy efficiency and energy management).
- Diversify energy mix, including the biggest possible share of diverse renewable energy (also considering locally available RE sources).
- Lower dependence from imported energy and diversify sources of supply.

(2) Access to sustainable energy

- The aim of the GCoM is that all energy used should become sustainable19, so whenever there is no access to energy in a location, renewable energy sources should be considered first, using energy efficient technologies.
- For access to electricity, renewable energy plays a growing role in both grid-based electrification and the expansion of decentralized technologies that are essential for rural areas.20

(3) Access to affordable energy

- Energy affordability depends on many factors that typically go beyond the local government’s purview. For example, energy prices are usually addressed at the national level. However, the affordability of energy can be influenced by factors under the control of

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19 For GCoM, nuclear energy is not considered “sustainable”.
20 Energy Access Outlook 2017 “From Poverty to Prosperity”
the local government, such as local policies, energy management, the use of subsidies or other mechanisms like incentives to promote renewable energy systems or energy saving measures.
### 7. Overall Reporting Timelines

The reporting framework includes timelines for different elements of reporting. The following table shows the overall reporting time after joining GCoM.

<table>
<thead>
<tr>
<th>Reporting Elements</th>
<th>Commit to join GCoM (Year 0)</th>
<th>Year 1</th>
<th>Year 2</th>
<th>Year 3</th>
<th>Year 4</th>
<th>Year 5</th>
</tr>
</thead>
<tbody>
<tr>
<td>GHG emissions inventory</td>
<td>submit by year 2 at the latest</td>
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<td>Risk and vulnerability assessment</td>
<td>submit by year 2 at the latest</td>
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<td>Targets and goals (mitigation and adaptation)</td>
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<td>Climate action plan(s) (mitigation and adaptation, or integrated plan)</td>
<td>submit by year 3 at the latest</td>
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* Every two years after submitting the climate action plan

Local governments may apply for an extension of reporting deadlines along with a clear justification.
Annex A: Members of Data-TWG

Below are lists of the members of the Data-TWG main body, as well as the Emissions Inventory & Target Setting Subcommittee, the Risk and Vulnerability Assessment Subcommittee and the Climate Action and Energy Access Planning Subcommittee. An asterisk (*) indicates membership in the main working group body. Dagger (‡) indicates membership in the subcommittee.

**D-TWG**

<table>
<thead>
<tr>
<th>Co-Chairs</th>
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<tbody>
<tr>
<td>*‡Paolo Bertoldi</td>
<td>European Commission - DG Joint Research Centre</td>
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<td>*‡Michael Doust</td>
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<tr>
<th>Members</th>
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<td>*‡Albana Kona</td>
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<td>*Eero Ailio</td>
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<td>*Maryke van Staden</td>
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<td>*‡Miriam Badino</td>
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<td>*Mikael Ange (new work assignment) – replaced by Alessandra Antonini</td>
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**Emissions Inventory and Target Setting Subcommittee**

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**Risk and Vulnerability Assessment Subcommittee**

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<tr>
<td>Paulo Barbosa</td>
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<td>Laura Kavanaugh (until 28 FEB 2018)</td>
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<td>CDP</td>
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<td>Sara Telahoun</td>
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**Climate Action and Energy Access Planning Subcommittee**

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