**Net Zero Carbon Buildings Accelerator – Action Template**

***Planned Actions to Deliver Commitments***

**CITY:**

This document provides an overview of the actions your city plans to take to meet the commitments of the Net Zero Buildings Accelerator. Please be comprehensive when telling us the past, planned, or aspirational actions that will enable your city to meet the commitments. Please expand the template where necessary to provide fully detailed responses.

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| **Accelerator Commitment 1**Enact regulations and/or planning policy to ensure **NEW** buildings operate at net zero carbon by **2030**. |
| *General comments on your policies and strategies that will help meet the requirements of commitment 1* |
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| *It is mandatory for signatories to establish a roadmap for net zero carbon buildings & to develop a suite of supporting incentives and programmes. We have provided a set of roadmap steps to help structure your responses. Please describe the past or future actions that will deliver a net zero carbon roadmap and a set of supporting incentives and programs.*  |
| **Action 1 - Establish an evidence base for a net zero carbon roadmap (new buildings).** *For example:* * Have you considered what energy modelling, or other analysis, is required to inform new building performance requirements?
* What interim performance milestones will be established as part of the roadmap?
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| **Action 2 - Implementation of policy** *For example:* * How will mandatory building codes be updated in line with the net zero carbon roadmap?
* Have reach or stretch codes been included for market leaders to adopt voluntarily?
* What changes might be needed to the compliance processes to ensure robust verification?
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| **Action 3 - Enabling actions to support market shift & a just transition** *For example:** Are NZC pilots being developed?
* Are municipal construction projects adopting higher or NZC standards?
* What incentives are to be offered for market leaders to adopt NZC standards voluntarily?
* Have equity issues been explored with measure to reduce impacts on vulnerable and low-income communities?
* How are you expanding capacity and skills within the construction industry?
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| **Action 4 - Code review cycle implemented which will lead to NZC buildings by 2030***For example:* * Has a code review timeline been established allowing developers to prepare for more ambitious standards?
* How will the performance gap be addressed to ensure buildings perform as intended?
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| **Accelerator Commitment 2**Enact regulations and/or planning policy to ensure **ALL** buildings operate at net zero carbon by **2050**.  |
| *General comments on your policies and strategies that will help meet the requirements of commitment 2* |
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| *It is mandatory for signatories to establish a roadmap for net zero carbon buildings & to develop a suite of supporting incentives and programmes. We have provided a set of roadmap steps to help structure your responses. Please describe the past or future actions that will deliver a net zero carbon roadmap and a set of supporting incentives and programs.*  |
| **Action 1 - Coalition building, stakeholder engagement***For example:** Have you considered bringing together a range of stakeholders into a taskforce to address barriers to NZC performance in existing buildings?
* Has an initial equity analysis been carried out to identify vulnerable communities?
* Has the existing building strategy been co-created by gathering the opinion of community stakeholders?
* Have adaptation challenges been mapped and assessed to determine how to increase resilience in existing buildings?
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| **Action 2 – Building an evidence base***For example:* * Will building energy use data be collected voluntarily, and will this become mandatory allowing energy benchmarking to take place?
* Technologies such as smart meters and building management systems will support better data collection processes
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| **Action 3 – Support systems developed** *For example:** Is there support for building owners to complete light touch ‘tune-up’ projects to reduce energy use?
* What city-wide incentives are available for owners to conduct deep retrofits?
* Can building owners share best practice solutions?
* Is leadership formally recognized?
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| **Action 4 – Mandatory building performance standards***For example:* * What mandatory policies can be used to compel the worst performing buildings to upgrade?
* Could a ratchet mechanism be used to raise the minimum performance level over time?
* How should communities be protected from gentrification and displacement as a result of renovation of buildings?
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| **Accelerator Commitment 3**Commit to owning, occupying and developing only assets that are net zero carbon in operation by **2030**. |
| *General comments on your policies and strategies that will help meet the requirements of commitment 3* |
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| *It is mandatory for signatories to establish a roadmap for net zero carbon municipal buildings & to evaluate the current energy demand and carbon emissions from your municipal buildings. We have provided a set of roadmap steps to help structure your responses. Please describe the past or future actions that will deliver a net zero carbon roadmap and the energy and carbon monitoring and reduction program.*  |
| **Action 1 – Energy auditing and data collection systems** *For example:* * Develop a centralised & automated data collection platform to measure energy use and carbon emissions of all municipal buildings.
* Installation of building management systems and smart meters coupled with training for building operators on effective use of systems for immediate efficiency gains
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| **Action 2 – Implementing a retrofit roadmap***For example:* * Assessment of energy use data leads to targeting of high emissions buildings for deep retrofits, a phased roadmap for retrofitting remaining buildings is established
* Financing secured for the roadmap based on a robust cost analysis leading to a strong business case to transform the whole portfolio to NZC performance.
* Can the social and economic impacts be assessed to show job creation, health and wellbeing benefits, and how these are (or are not) equitably distributed?
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| **Action 3 – Building to net zero carbon standards** *For example:** What timeline is in place to begin constructing all new municipal buildings to a net zero carbon standard (aligned with NZC New Buildings roadmap) to prevent the need for retrofits early in a building's life cycle?
* How will the performance gap be addressed to ensure buildings perform as intended?
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| **Action 4 – Clean energy strategy** *For example:* * Has a strategy been developed to maximise on-site renewable energy generation and establish procurement of off-site renewable energy to meet 100% of your operational energy needs by 2030?
* Is an electrification strategy in place to remove all fossil fuel combustion?
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