



Submission Form

Building for Climate Change

1. Contact details (optional)

Name:	Lesley Smith
Company/organisation	Water New Zealand
Email address:	Lesley.smith@waternz.org.nz

2. Are you making this submission on behalf of a business or organisation?

☐ No

☒ Yes (please tell us which Company/Organisation you are making this submission on behalf of)

Water New Zealand. Water New Zealand is a national not-for-profit sector organisation comprising approximately 2000 corporate and individual members in New Zealand and overseas. Water New Zealand is the principal voice for the water sector, focusing on the sustainable management and promotion of drinking water, wastewater and stormwater.

3. Would you like to:

Remain anonymous in the published consultation summary report ☒ No ☐ Yes

Receive a copy of your own submission ☒ No ☐ Yes

Receive future updates on Building for Climate Change programme ☐ No ☒ Yes

4. Are you willing to be contacted in relation to your submission if MBIE has questions about your response?

☐ No ☒ Yes

5. The best way to describe your role is:

- | | | |
|---|--|---|
| <input type="checkbox"/> Architect | <input type="checkbox"/> Building owner | <input type="checkbox"/> Geotechnical Engineer |
| <input type="checkbox"/> Building Consent Authority/Officer | <input type="checkbox"/> Electrician | <input type="checkbox"/> Structural Engineer |
| <input type="checkbox"/> Builder | <input checked="" type="checkbox"/> Engineer – other | <input type="checkbox"/> Plumber/Gasfitter/Drainlayer |
| <input type="checkbox"/> Building product/material supplier | <input type="checkbox"/> Fire Engineer | |
| <input type="checkbox"/> Other: __Co-ordinate technical input for the water sector_____ | | |

9. Do you think the Building for Climate Change work programme should include the following building classifications?

	No	Yes
Housing	<input type="checkbox"/>	<input type="checkbox"/>
Communal Residential	<input type="checkbox"/>	<input type="checkbox"/>
Communal Non-Residential	<input type="checkbox"/>	<input type="checkbox"/>
Commercial	<input type="checkbox"/>	<input type="checkbox"/>
Industrial	<input type="checkbox"/>	<input type="checkbox"/>

If you have indicated that you believe one, or more, building classifications **should not** be included, please tell us why

We don't have a view on the classification of buildings that should be included, however note if multiple categories of buildings are included, water use caps should relate building end use. Water use benchmarks under the Australian "Watercompare" project could be used to inform water use if this approach is adopted.

Water use caps would need to vary based on the building type. Office buildings, health care facilities, manufacturing, hospitality businesses, laundromats all have vastly different water profiles.

Research conducted by BRANZ on commercial water use in office blocks shows that size and the way the building is used are the biggest factors in determining consumption:
<https://www.buildmagazine.org.nz/index.php/articles/show/commercial-water-use-in-auckland>

10. Do you agree or disagree that the Building for Climate Change work programme should include measures to improve the operational efficiency of buildings in New Zealand?

Strongly disagree ☐ Disagree ☐ Neither ☐ Agree ☐ Strongly agree ☐ Yes

Please tell us why.

Yes. In particular, we welcome the addition of water into the scheme. There are few incentives for water efficiency elsewhere in NZ legislation.

20. The Framework currently proposes to exclude the following elements from the Building for Climate Change work programme. Which do you think should be included or excluded?

	Should be included	Should be excluded
Electrical appliance efficiency	<input checked="" type="checkbox"/>	<input type="checkbox"/>
On-site collection and storage of water	<input checked="" type="checkbox"/>	<input type="checkbox"/>
On-site waste water treatment	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Please tell us why.

We suggest that onsite collection and storage of water be included. Alternative water sources such as water harvested from rainwater tanks, carparks, greywater and/or blackwater systems be included in the scheme. The most appropriate way of achieving this would be to excluded water sourced from alternative uses from the water cap.

Water recycling should be incentivised, as it achieves multiple resilience and environmental benefits; reduces pressure on water supply sources, provides alternative supply sources in water outages and reduces load and environmental pressure associated with stormwater and wastewater system operation.

Green roofs also offer similar benefits to the stormwater system and emissions and should also be considered for inclusion in the scheme.

29. Do you think a data repository of embodied carbon from buildings should be established?

☒ Yes

☐ No

Please tell us why.

Yes. There is large uncertainty in the derivation of emissions associated with water and wastewater emissions. The data repository should be open to be queried and updated as emissions estimates improve over time.

It would also be useful to have uncertainty associated with embodied carbon estimates included in the repository.

30. If a data repository was established, do you think this information should be able to be accessed by the public?

☒ Yes

☐ No

Please tell us why.

The data repository could also be useful to extend information obtained to broader aspects of publicly owned infrastructure. Transport and water infrastructure both have generic construction attributes that could utilise data from the information repository for determining embodied carbon.