# 23 Energy Source

**Positive**

## Submission information

Provide the following information for the submission

|  |  |
| --- | --- |
| **Submission type** | Choose an item. |
| **Performance level targeted** | [ ]  Minimum Expectation |
| [ ]  Credit Achievement |
| [ ]  Exceptional Performance |
| **Points Targeted** | Click or tap here to enter text. |

#### Technical Questions

|  |  |
| --- | --- |
| There are project-specific technical questions for this credit and all responses received from the NZGBC are included in the submission. | Choose an item. |

#### Discussion

Narratives will help the Assessors understand how the project complies with the credit. Please include a narrative below, but note that simply listing the credit requirements is not helpful. Instead, outline any other issues that need to be considered by the Assessment Panel.

Click or tap here to enter text.

#### Changes between Rounds

If applicable, please use the text box below to explain any changes between Round 1 and Round 2. This is an opportunity for the GSAP to describe how they have addressed the Assessors comments in Round 2.

Click or tap here to enter text.

## Submission template

### Minimum Expectation

|  |  |
| --- | --- |
| **The project meets the requirements for the targeted star in the registered year.** | Choose an item. |

#### Zero Action Plan

|  |  |
| --- | --- |
| **The project team has developed a Zero Carbon Action Plan for the building, signed off by the building owner/developer and is included in any operational documents for the building.** | Choose an item. |
| **The Zero Carbon Action Plan includes a target date by when the building is expected to operate as fossil fuel free.** | Choose an item. |
| **The Zero Carbon Action Plan covers all energy consumption, procurement, and generation and does not rely on procuring renewable fuels as its only solution.** | Choose an item. |
| **The Zero Carbon Action Plan includes infrastructure provided for tenants or future occupants such as emergency back up and process loads.** | Choose an item. |
| **Domestic hot water, space heating and cooking are fossil fuel free in all buildings.**  | Choose an item. |
| **The Zero Carbon Action Plan is done prior to the tender phase of the project.** | Choose an item. |
| **Indicate where the following requirements have been outlined in the Zero Carbon Action Plan (provide references to documentation):** |
| * Quantify the building's scope 1 (including refrigerants) and 2 emissions between now and 2050 without any interventions.
 | Click or tap here to enter text. |
| * Quantify the building’s scope 1 (including refrigerants) and 2 emissions in 2050 once all interventions have occurred.
 | Click or tap here to enter text. |
| * Describe the changes the building is required to undertake to be net zero ready as the distinct parts of the building's systems reach end of life.
 | Click or tap here to enter text. |
| * Identify spatial considerations and physical interventions needed to replace fossil fuel using equipment, refrigerants, and infrastructure.
 | Click or tap here to enter text. |
| * Perform a cost analysis of the potential costs and savings if the building was designed to be net zero ready.
 | Click or tap here to enter text. |
| * Be signed-off by the building owner or the developer.
 | Click or tap here to enter text. |
| **Outline from the Zero Carbon Action Plan, if relevant (provide references to documentation):** |
| * A description of energy-consuming electrical, mechanical, or hydraulic systems and any refrigerants used.
 | Click or tap here to enter text. |
| * Any future spatial requirements or changes to plant rooms stemming from changes to existing building systems.
 | Click or tap here to enter text. |
| * Any additional capacity built into the building, substations, or building systems to enable any proposed changes. This may include the capacity to accommodate any future additional loads, energy storage or demand response solutions which may occur or be implemented during the life of the building.
 | Click or tap here to enter text. |
| * An upgrade or replacement timeline for the distinct systems, or system components, describing the point at which they are to be replaced with the appropriate alternatives.
 | Click or tap here to enter text. |

####  Supporting documentation

Identify where evidence supporting the information provided can be found in the documentation.

|  |  |  |
| --- | --- | --- |
| Document name | Document description | Page number(s) |
| Click or tap here to enter text. | Click or tap here to enter text. | Click or tap here to enter text. |
| Click or tap here to enter text. | Click or tap here to enter text. | Click or tap here to enter text. |
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#### Exclusion of Fossil Fuels On-site

|  |  |
| --- | --- |
| **Commitment to lease clauses that preclude tenants from introducing non-renewable energy sources such as LPG cylinders is provided.** | Choose an item. |
| **Any fossil fuels used for emergency power or laboratory equipment is less than 1% of the total building energy consumption and is offset for the first five years of operation.** | Click or tap here to enter text. |
| **The amount of carbon emissions to be offset is based on estimated fuel use from regular scheduled testing and predicted peak shaving events.** | Choose an item. |

#### Supporting documentation

Identify where evidence supporting the information provided can be found in the documentation.

|  |  |  |
| --- | --- | --- |
| Document name | Document description | Page number(s) |
| Click or tap here to enter text. | Click or tap here to enter text. | Click or tap here to enter text. |
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### Credit Achievement

#### Renewable Electricity

|  |
| --- |
| **10% of the buildings net energy demand is generated by on site renewables.** |[ ]

#### Supporting documentation

Identify where evidence supporting the information provided can be found in the documentation.

|  |  |  |
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| Document name | Document description | Page number(s) |
| Click or tap here to enter text. | Click or tap here to enter text. | Click or tap here to enter text. |
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### Exceptional Performance

#### Renewable Electricity

|  |  |
| --- | --- |
| **20% of electricity under the control of the building owner or operator are accounted for and sourced from renewables.**  | Choose an item. |

#### Supporting documentation

Identify where evidence supporting the information provided can be found in the documentation.

|  |  |  |
| --- | --- | --- |
| Document name | Document description | Page number(s) |
| Click or tap here to enter text. | Click or tap here to enter text. | Click or tap here to enter text. |
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## Declaration

Provide the following details as confirmation that the information provided in this document is truthful and accurate at the time of completion.

|  |  |
| --- | --- |
| **Name** | Click or tap here to enter text. |
| **Position** | Click or tap here to enter text. |
| **Email** | Click or tap here to enter text. |
| **Date** | Click or tap to enter a date. |