

Climania is a free to print-and-play board game.



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CLIMANIA The Climate Action Game has been developed by thirteen young people from Balsall Heath, Birmingham working with researchers Claudia Carter and Simeon Shtebunaev from Birmingham City University. The project collaborators include the GAP Arts Project, The Birmingham Architectural Association, The RTPI West Midlands and Antropocene Architecture School.



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CLIMANIA

THE CLIMATE ACTION GAME

GLOSSARY

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<https://climaniathegame.com/>

Climate Change refers to long-term shifts in temperatures and weather patterns. These shifts may be natural, such as through variations in the solar cycle. But since the 1800s, human activities have been the main driver of climate change, primarily due to burning fossil fuels like coal, oil and gas.

(United Nations)

Climate Change Mitigation refers to efforts to reduce or prevent emission of greenhouse gases.
(UN Environment Programme)

Climate Change Adaptation means taking action to prepare for and adjust to both the current effects of climate change the predicted impacts in the future.
(EU Commission)

Whole Life Carbon emissions are the sum total of all asset related GHG emissions and removals, both operational and embodied over the life cycle of an asset including its disposal.
(LETI Whole Life Carbon One Pager)

Operational Carbon

The amount of carbon emitted during the operational or in-use phase of a building. This includes the use, management, and maintenance of a product or structure.

(UN Environment Programme)

Embodied Carbon

The amount of carbon emitted during the making of a building. This includes extraction of raw materials, manufacture and refinement of materials, transport, the building phase of the product or structure, and the deconstruction and disposal of materials at the end of life.

Greenhouse Gases

Gases that trap heat in the atmosphere are called greenhouse gases. Those can include carbon dioxide CO₂, methane CH₄, nitrous oxide N₂O, water vapour and fluorinated gases.

(US Environmental Protection Agency)

#FridaysForFuture is a worldwide youth-led and -organised movement after Greta Thunberg and other activists sat in front of the Swedish parliament every schoolday for three weeks, to protest against the lack of action on the climate crisis.

1.5 degrees of warming means an increase in the Earth's average temperature from pre-industrial levels. At about 1.5 degrees of global warming there's enough heat to push many of the natural systems that sustain humanity past a dangerous turning point.

(Climate Reality Project)

Retrofit

Retrofitting means 'providing something with a component or feature not fitted during manufacture or adding something that it did not have when first constructed'. It is often used in relation to the installation of new building systems, such as heating systems, but it might also refer to the fabric of a building, for example, retrofitting insulation or double glazing.
(Designing Buildings Wiki)



Building Stock

is a term that is used to describe the total number of buildings in a country, region, municipal area or estate. It can include dwellings, offices, factories, shops, educational establishments, agricultural buildings and so on.
(Designing Buildings Wiki)

Circular Economy

A circular economy is an industrial system that is restorative or regenerative by intention and design. It replaces the linear economy and its 'end of life' concept with restoration, shifts towards the use of renewable energy, eliminates the use of toxic chemicals and aims for the elimination of waste through the design of materials, products, systems that can be repaired and reused.
(LETI Climate Emergency Design Guide)

Net Zero Building

A building's construction is net zero when the amount of carbon emissions associated with a building's product and construction stages up to practical completion is zero or negative, through the use of offsets or the net export of on-site renewable energy. For a building's operational energy, it is when the amount of carbon emissions associated with the building's operational energy on an annual basis is zero or negative.
(UK Green Building Council)

Heat Pump

is a device that can provide heating, cooling and hot water for residential, commercial and industrial applications by transferring energy mechanically.
(European Heat Pump Association)

Passive House (from German Passivhaus)

Passivhaus is a building standard that gives a range of proven approaches to deliver net-zero-ready new and existing buildings optimised for a decarbonised grid and augmented for occupant health and wellbeing. Passivhaus buildings provide a high level of occupant comfort using very little energy for heating and cooling.
(Passivhaus Trust)