Jargon buster: sustainability
Net zero
The neutralisation of greenhouse gas emissions through offsetting by removing an equivalent amount of greenhouse gases from the atmosphere (this definition is developed from the IPCC net-zero definition [1]).

Absolute zero
Zero greenhouse gas emissions emitted without the use of offsetting. This includes scope 1, 2 and 3 emissions such as those caused by purchasing, imported goods, flights, and shipping [2].

Product/process net zero
The neutralisation of greenhouse gases emitted from the life cycle of a product or process through offsetting by removing an equivalent amount of greenhouse gases from the atmosphere (this definition is developed from the IPCC net-zero definition [1]).

Sustainability
The state of the global system, including environmental, social, and economic aspects, in which the needs of the present are met without compromising the ability of future generations to meet their own needs [3].

Sustainable development
Development that meets the needs of the present without compromising the ability of future generations to meet their own needs and balances social, economic, and environmental concerns [1].
Sustainable development goals
The 17 global goals for development for all countries established by the United Nations through a participatory process and elaborated in the 2030 Agenda for Sustainable Development[^1].

Sustainable manufacturing
Manufacturing that does not infringe on the persistence of natural and human systems in an equitable manner, balancing social, economic, and environmental concerns (this definition is developed from the IPCC definition of sustainability/sustainable development[^1]).

Sustainable design
Design that does not infringe on the persistence of natural and human systems in an equitable manner, balancing social, economic, and environmental concerns (this definition is developed from the IPCC definition of sustainability/sustainable development[^1]).

Design for environment (DfE)/ecodesign
Design that aims to reduce the negative impacts of a product on the environment and society in the product design process without compromising other criteria and specifications such as product performance, mode of use or appearance[^4].

Circularity
The circular economy (CE) is a sustainable economic system where economic growth is decoupled from resources use, through the reduction and recirculation of natural resources. The circularity of a product is the degree to which it contributes to the CE[^5].
Recycling
Any reprocessing of waste material in a production process that diverts it from the waste stream, except reuse as fuel. Both reprocessing as the same type of product, and for different purposes should be included. Recycling within industrial plants i.e., at the place of generation, should be excluded [1].

Downcycling
During the process of downcycling, the material or product loses value after being recycled [6].

Upcycling
During the process of upcycling, the material or product gains value after being recycled [6].

Scope 1 emissions
Direct emissions from owned or controlled sources [7].

Scope 2 emissions
Indirect emissions from the generation of purchased electricity, steam, heating, and cooling consumed by the reporting company [7].

Scope 3 emissions
All other indirect emissions that occur in a company’s value chain not covered by scope 1 or scope 2 [7].

Embodied energy
The amount of primary energy and renewable energy used in the manufacturing, construction and maintenance of products, processes, and services [8].
Embodied carbon/embodied GWP
The amount of greenhouse gas emissions created in the manufacturing, construction and maintenance of products, processes and services [8].

Life cycle assessment (LCA)
Compilation and environmental impact assessment of the inputs, outputs of a product or service throughout its life cycle. This definition builds on ISO documentation [8].

Industrial symbiosis
Industrial symbiosis is the use by one company or sector of underutilised resources broadly defined (including waste, by-products, residues, energy, water, logistics, capacity, expertise, equipment and materials) from another, with the result of keeping resources in productive use for longer [9].

Cradle to grave/gate
Cradle-to-grave assessment considers the environmental impact at each stage of a product’s life cycle, from the time natural resources are extracted from the ground and processed through each subsequent stage of manufacturing, transportation, product use, and ultimately, disposal. Cradle-to-gate assessment considers the environmental impact at each stage of a product’s life cycle, from the time natural resources are extracted from the ground and processed until the manufacturing stage [10].
Sources


[10] European Environmental Agency (EEA), 2022. Glossary: List of environmental terms used by EEA.
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