

LCA – Life Cycle Analysis



Greenhouse gas (GHG) emissions are often viewed at global, national, corporate or organizational levels, however emissions within these groupings can arise from supply chains within business, between businesses, and between nations. The GHG emissions associated with goods and services reflect the impact of processes, materials and decisions occurring throughout the life cycle of goods and services.

PAS 2050 builds on existing methods established through BS EN ISO 14040 and BS EN ISO 14044 by specifying requirements for the assessment of the life cycle GHG emissions of products.

For organizations that supply goods and services, PAS 2050:

- › Allows internal assessment of the existing life cycle GHG emissions of goods and services
- › Facilitates the evaluation of alternative product configurations, sourcing and manufacturing methods, raw material choices and supplier selection on the basis of the life cycle GHG emissions associated with goods and services
- › Provides a benchmark for ongoing programmes aimed at reducing GHG emissions
- › Allows for a comparison of goods or services using a common, recognized and standardized approach to life cycle GHG emissions assessment
- › Supports reporting on corporate responsibility.

For consumers of goods and services, PAS 2050:

Provides a common basis from which the results of life cycle GHG emissions assessments can be reported and communicated

Provides an opportunity for greater consumer understanding of life cycle GHG emissions when making purchasing decisions and using goods and services



Scope and Aims

Aim

The PAS method for measuring embodied GHG emissions of goods and services will enable organisations, e.g. business, to effectively measure the climate change related impacts of their goods and services with a view to using this information to improve the climate change related performance of these.

Scope

This publicly available specification (PAS) specifies requirements for the assessment of the greenhouse gas (GHG) emissions associated with the life cycle of goods and services. This PAS is applicable to organizations assessing the life cycle GHG emissions of goods and services across their life cycle.

The measurement method:

- Applies to all goods and services with consideration given to how and whether it may need customising for specific product groups, e.g. food, buildings, electronics, etc.
- Considers all lifecycle stages along the supply/value chain of a product (goods and/or services), i.e. from raw materials to end of life
- Includes the six GHGs identified under the Kyoto protocol
- Could be used by all sizes and types of organisations

The PAS is intended as the first step towards a future internationally agreed method for organisations to measure the GHG emissions embodied in their goods and services.

