



ENVIRONMENTAL SUSTAINABILITY



**CLIMATE CHANGE:
IMQ SERVICES TO SUPPORT
BUSINESSES**

FOCUS: LCA, EPD, CARBON FOOTPRINT,
GHG INVENTORY



#INCENTIVES #BENEFITS

ECOLOGICAL TRANSITION: EUROPEAN POLICY AND INCENTIVES FOR COMPANIES

Sustainable industry is today the paradigm behind Europe's main industrial policies, which aim to transition the production of Member States towards ecological-digital systems.

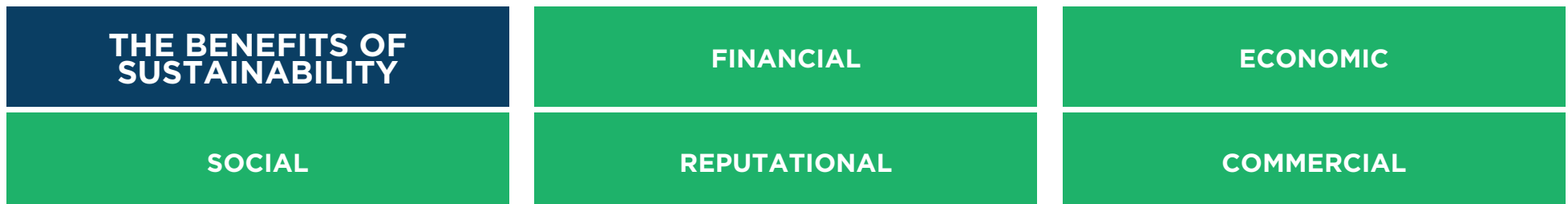
The focus is on measures to combat climate change and its impacts, as well as sustainability performance, which together with financial performance, have become key indicators in large business reporting.

To support Italian companies and the investments made to combat climate change, on 28 October 2021 the Council of Ministers approved a draft budget law to set up an industrial transition fund of 150 million Euro from 2022, to promote the fight against climate change through investment in energy efficiency, reuse of raw and recycled materials, and capture and reuse of CO₂.

The following are currently active for companies: environmental benefits (L. 388/2000), or a system of tax relief for SMEs who have made investments related to environmental impact; Incentives to support the national Transition 4.0 plan, research and development projects for the circular economy within the Sustainable Growth Fund, pilot projects on ecological transition, and development contracts.

“ The European Union's strategic priorities now include adoption of models that are in line with the principles of the circular economy as it offers an opportunity for growth and development in innovation, the environment, employment and competitiveness.

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ENVIRONMENTAL SUSTAINABILITY: TOOLS FOR BUSINESSES

To ensure a scientific approach to sustainability, provide guidance to improve product and service design, and improve market visibility

Ecological transformation of economic activities, investment in production and delivery of “zero-emission” services can slow down climate change.

The **assessments and certifications conducted by IMQ** are a technical tool for improving environmental performance.



LCA critical review: for an integrated environmental sustainability assessment



EPD: to communicate environmental performances throughout the production chain of a product/service in a clear, transparent and objective way that is certified



Product Carbon footprint: calculation of greenhouse gas (GHG) emissions to understand which stages have the most impact and implement effective reduction policies



Organisation GHG inventory: to make a budget of the significant direct and indirect GHG emissions



LCA CRITICAL REVIEW

Verification of methods used for Life Cycle Assessment according to ISO 14040 and ISO 14044

LCA (Life Cycle Assessment) is a tool to support an integrated assessment of environmental sustainability and the circular economy.

It is a useful method to analyse the impact of goods, services, economic systems and production lines throughout their life cycles. It is used to compare different strategies and choose the most beneficial solutions in order to implement a company policy that is strongly based on respect for environmental sustainability.

The LCA review conducted by IMQ is aimed at verifying that the methods used to perform the LCA are consistent with the ISO references, and are scientifically and technically valid.



IMPROVE



A tool to identify and focus critical process phases, in order to take action and improve the entire production and distribution cycle



INCREASE



A tool to support redesign choices in order to increase durability and end-of-life recyclability in line with the circular economy



GUARANTEE



The scientific basis of the main voluntary product certifications in order to provide a guarantee that the impact calculations are objective

CERTIFICATIONS



VOLUNTARY CERTIFICATIONS

IMQ Accredited Body

Voluntary certifications are a tool through which operators in the same sector can dialogue at a national and international level. They are subject to verification and validation by a third-party accredited body, which guarantees that the information in the LCA study and issued certification is true.



PROMOTE



A tool to promote sustainable business strategies



Accreditation ensures that the certification bodies meet all the requirements set out in the standards to carry out conformity assessments. It guarantees expertise, independence and impartiality, and makes the certifications highly reliable.



INCREASE



A tool to increase the visibility of goods and services on the market



ENHANCE



A tool to enhance the company brand



BOOST



A tool to boost the company business



EPD: ENVIRONMENTAL PRODUCT DECLARATION

IMQ is an accredited body for Product EPD, Pre-certification EPD and Single issue EPD verification. It also implemented a verification process for: Process EPD, Sector and Pre-verified EPD tool

EPD is a tool for assessing and communicating the environmental performance of goods and services. It is calculated and assessed using the LCA methodology over the life cycle: from raw material extraction and transformation, through production and transport, to use and final disposal. In addition to indicators of the environmental impact of resources and waste, the EPD may contain other environmental parameters, for example related to the recycled content of the product.

CERTIFICATION PROCESS



CARBON FOOTPRINT



CFP: PRODUCT CARBON FOOTPRINT

Product carbon footprint is an assessment and quantification of the emission and removal of greenhouse gases, expressed as CO₂ equivalent (CO₂e), released into the atmosphere throughout the life cycle of a product (goods or service), from raw material extraction and transformation, through production and transport, to use and final disposal. It is based on the LCA methodology.

CERTIFICATION PROCESS

THE ORGANISATION

The organisation provides the PCF study and PCF document based on the general requirements of standards ISO 14067 and ISO 14040-44, and any specific requirements arising from the Product Category Rules, if applicable.



IMQ

IMQ verifies and validates the PCF report, and issues the organisation with a **Conformity certificate*** for the kg of CO₂e associated with the goods or service.

There is no surveillance or renewal as it is a photograph of the CO₂e over a specific reference year.



The verification is carried out by a qualified auditor according to IMQ procedures. It ensures that the information in the report is objective and truthful, and that the calculations are correct.



CARBON FOOTPRINT



CFP: CARBON FOOTPRINT SYSTEMATIC APPROACH

The Carbon Footprint Systematic Approach is a tool (set of processes, activities defined by procedures) tailor-made for individual companies. It can be used to systematically and independently quantify/develop the PCF of products made by the same company in a defined field of application.

AMONG OTHER BENEFITS the Carbon Footprint Systematic Approach is able to: **REDUCE** the time taken to calculate the PCF of a single product; **ASSESS** - iduring redesign - the variation in the overall product impact in terms of CO₂ as specific inputs vary; **UNDERSTAND** the implication of CO₂ from new products (R&D).

CERTIFICATION PROCESS

THE ORGANISATION

The organisation sets up the system as defined by procedures/ manuals based on the general requirements of standards ISO 14067 and ISO 14040-44, and any specific requirements arising from the Product Category Rules, if applicable, and prepares a sample PCF.



IMQ

IMQ verifies and validates the PCF Systematic Approach, and issues the organisation with a **Conformity certificate***.

**Three-year validity with annual surveillance.*



The verification is carried out by a qualified auditor according to IMQ procedures. It ensures that the system produces objective and truthful PCFs that comply with the applicable standards.





#ISO 14064-1 #kgCO₂e

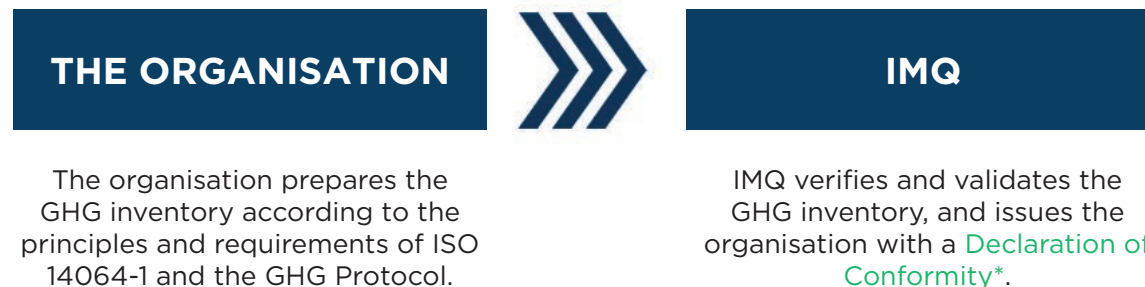
ORGANISATION VOLUNTARY GHG INVENTORIES

This is an ISO 14064-1 compliant methodology for accounting greenhouse gas (GHG) emission and absorption caused directly and indirectly by an organisation. It is expressed in kg of CO₂e.

MAIN BENEFITS.

The GHG inventory is able to: **REDUCE** the costs associated with organisation management by optimising resources and reducing waste; **INNOVATE AND IMPROVE** its management system by monitoring the actions taken and the results achieved; **COMMUNICATE** the initiatives taken to its stakeholders in a transparent and truthful way; **MEET** the ever increasing needs of internationalisation and offer added value to its users; **REDUCE** procurement risks by building stronger relationships throughout the supply chain.

CERTIFICATION PROCESS



** There is no surveillance or renewal as it is a photograph of the CO₂e over a specific reference year.*

“ The verification is carried out by a qualified auditor according to IMQ procedures. It ensures that the calculations are correct, and that the inventory prepared represents the GHG data, quantification, reporting and monitoring in accordance with the applicable standards.

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WHY IMQ



#INTERNATIONAL AUTHORITY
#SOLUTIONS CUSTOMISED



WHY IMQ

IMQ has over 70 years of experience in conformity measurement, testing and verification.

Our engineers support manufacturers to verify products and confirm that they meet market standards and expectations.

Testing services are carried out in our accredited laboratories, following rigorous testing procedures.

Our expert technicians not only have years of experience, but are also updated continually and are members of the main international standards groups, which together with our state-of-the-art equipment ensure that the results are reliable and transparent.

Our testing capabilities meet the requirements of the main international standards and are renewed continually as new technologies evolve.

OUR CREDENTIALS:

INTERNATIONAL AUTHORITY

ACCREDITED BODY

LEADER IN CONFORMITY
VERIFICATION

70 YEARS OF EXPERIENCE

IMQ is a company of the IMQ Group, a technology hub for testing and certification of quality, sustainability, interoperability and cyber security requirements.

It is a European leader in conformity assessment (testing, inspection, certification), and the accreditations obtained and specific expertise of its member companies ensure a privileged link with industry.

A company made up of technicians who have made quality, safety and sustainability the backbone of their professional role.

The know-how of IMQ Group's active and internationally recognised experts can offer up-to-date solutions with the most modern testing and assessment techniques.

IMQ Group S.r.l. is the parent company of IMQ Group, which is composed of twelve operating companies: five in Italy - IMQ S.p.A., CSI S.p.A., IMQ Intuity S.r.l., IMQ Minded Security S.r.l., IMQ eAmbiente S.r.l. - and seven abroad: Spain, Poland, Turkey, Germany, United Kingdom, United Arab Emirates and China.

CONTACT US: commerciale.csq@imq.it