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Carbon Footprint Assessment

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Applus+ provides carbon footprint assessment and consulting services, a full-service engagement in which Applus+ specialists conduct GHG emissions analysis, carbon footprint calculation, and decarbonization strategy on behalf of your organization, in accordance with ISO 14064, GHG Protocol, and ISO 14067.

Our consultants cover Scope 1, 2, and 3 emissions, product carbon footprints, science-based targets (SBTi), net-zero strategies, and regulatory compliance, providing the technical rigor, sector expertise, and strategic advice that go beyond what a software platform can deliver.

Looking for a self-service carbon footprint calculation platform? See our **Carbon Footprint Calculator** designed for organizations that want to manage their own GHG calculations independently.

THE Applus+ SOLUTION

Expert-Led Carbon Footprint Assessment

Applus+ can conduct the full carbon footprint calculation process on behalf of your organization from emission source identification and data collection through to calculation, reporting, and verification support. Our team applies internationally recognized methodologies, maintains current emission factors, and delivers results that are fully traceable, auditable, and ready for third-party verification.

In addition, we provide our clients with comprehensive climate change services, offering tailored solutions to their carbon management needs. This includes not only carbon

footprint calculation but also supporting the full decarbonization process, from diagnosis to implementation and performance follow-up.

Thanks to our extensive knowledge in various areas of environmental management across multiple industry sectors and our high level of specialization in climate change-related services, we can offer complete, concrete, and operational solutions that help our clients reduce their carbon footprint, even when data availability or internal resources are limited.

When to choose an expert Carbon Footprint Assessment over a self-service calculation

Applus+ carbon footprint consulting services are the right choice when your organization needs:

- **A first-time carbon footprint assessment with expert guidance** on scope boundaries, emission source identification, and methodology selection.
- **Product carbon footprint calculation (ISO 14067) or Life Cycle Assessment (ISO 14040/44) requiring specialist LCA expertise** beyond standard organizational GHG accounting.
- **Science-Based Targets (SBTi):** applicability analysis, target definition, submission support, and verification process guidance.
- **Net zero strategy and decarbonization roadmap development**, phased reduction pathways aligned with regulatory and investor expectations.
- **Regulatory compliance support:** EU-ETS, national registry submissions, CSRD, EU Taxonomy, or sector-specific reporting frameworks.
- **Complex or high-stakes calculations** where data quality, methodology rigor, and defensibility to external auditors are critical.
- **Strategic carbon assessment** incorporating carbon costs into business decisions, supply chain engagement, or sustainability reporting frameworks.

Carbon Footprint Assessment Services

We cover organizational and product footprint calculation, decarbonization strategies, compliance, environmental assessments, and climate-related projects:

- **Design and calculation of carbon footprint** (organizational and product/service) according to recognized standards (ISO 14064, ISO 14067, GHG Protocol, TfS - chemical sector).
- **Design of Net Zero strategies,** decarbonization plans, and roadmaps for mitigation and compensation of emissions and adaptation to climate change impacts, aligned with science-based targets (SBTi).

- **Science-Based Targets:** applicability analysis, definition of SBT, and support in submission and targets verification process.
- Design and calculation of **water footprint** (ISO 14046) and **environmental footprint** (EU PEF/OEF).
- **Life Cycle Assessment** (ISO 14040/44) of products and services.
- LCA and Life Cycle Cost (LCC) analysis for BREEAM and LEED compliance (One Click LCA).
- Technical assistance related to the **EU Emissions Trading System (EU-ETS).**
- **Energy, climate change, and** air quality plans for Public Administrations.
- **Voluntary reduction-compensation projects** (VCS-VERRA, Gold Standard) and Paris Agreement crediting mechanisms.
- Calculation of emission baselines, KPIs, and reductions associated with projects.
- Analysis of **compliance with sustainability criteria** according to the EU taxonomy.
- Carbon footprint registry submissions (national and regional registries, FES-CO2, Corporate Reduce Your Footprint program).
- Preparation of **GHG emissions reports** and technical documentation.

Who Needs Carbon Footprint Assessment Services?

This service is particularly relevant for organizations that need to quantify and manage Scope 3 emissions and engage suppliers in climate action initiatives.

Taking action by measuring, evaluating, and implementing measures to reduce the carbon footprint is necessary for all companies. It is increasingly requested by different stakeholders to respond to the following needs:

- **Legal requirements arising from increasingly demanding climate change regulations** , including sector-specific reporting frameworks and national/regional carbon registries.
- **Meeting solvency criteria and improving positioning in public and private tenders** where having a carbon footprint calculation is valued.
- **Climate-related specifications or emission inventory requirements from clients** to access or maintain supplier approval.
- Reporting for sustainability programs and ESG disclosures.
- **Improving credibility with financial institutions** and rating agencies, supporting access to sustainable finance instruments.
- **Access to incentives from clients who apply benefits** to suppliers based on sustainability criteria.

Key customer benefits

Technical assistance solutions in the field of GHG emissions quantification and decarbonization allow, beyond cost savings and legal compliance, to improve decision-

making by incorporating the carbon component into business strategy, facilitating:

- **Identifying the most relevant emission sources** to focus mitigation efforts, including alignment with science-based reduction pathways (SBTi).
- Analyzing the **environmental benefits of organizational measures such as teleworking, travel policies, or corporate mobility plans.**
- **Assessing the impact of operational improvements,** energy efficiency measures, and facility changes.
- Evaluating the **influence of procurement or** waste management on total emissions, to adopt environmental criteria in purchasing and ESG compliance.
- **Analyzing logistics emissions** and the impact of route optimization, load optimization, or lower-emission vehicles.
- **Evaluating product and service design improvements,** incorporating carbon costs, and enabling access to markets with environmental performance requirements.

Our team, methodology and recognized standards

Our services are delivered by a multidisciplinary team of specialists in carbon management, environmental engineering, and life cycle analysis, with proven experience supporting organizations across sectors such as oil and gas, power and renewables, infrastructure, and public administration.

Our methodologies are based on internationally recognized standards, including ISO 14064, ISO 14067, ISO 14046, the GHG Protocol, and Life Cycle Assessment frameworks (ISO 14040/44). Results are fully traceable, auditable, and verifiable by independent third parties.

Carbon Footprint Assessment Expertise

Applus+ has extensive experience in carbon footprint calculation and management, developed through dozens of projects across organizations of varying complexity and sectors, covering organizational and product footprints, ISO 14064-1, GHG Protocol, ISO 14040/44 and ISO 14067.

Experience spans high-emission sectors including energy and gas, renewable energy, chemical industry, transportation and logistics, construction, and telecommunications. Key assets analyzed include power generation facilities, electricity and gas distribution networks, industrial plants, renewable energy installations, corporate buildings, vehicle fleets, and port and airport infrastructure.

Why Choose Applus+ for Carbon Footprint Assessment?

- **Expert-led, not software-automated:** a dedicated team of carbon management specialists conducts your assessment.
- **Full-service coverage:** from first assessment to net zero strategy, SBTi, product footprint (ISO 14067), LCA, EU-ETS, and registry submission.
- **Internationally recognized methodology:** ISO 14064, GHG Protocol, ISO 14067, ISO 14040/44, SBTi, and EU Taxonomy in a single engagement.
- **Verification-ready results:** reports formatted for third-party verification from day one.
- **Sector expertise:** proven experience in oil and gas, power, infrastructure, industry, and public administration.
- **Carbon Footprint Calculator:** for ongoing annual updates after the first assessment, the Applus+ carbon footprint calculator platform provides a cost-efficient, self-managed option.