



Add value.
Inspire trust.

Carbon Management Portfolio

Services to help you decarbonise your processes

Introduction

Carbon emission and its impact on climate change is one of the main challenges for achieving environmental sustainability. The biggest contributor to greenhouse gas (GHG) emissions is the built environment, which contributes up to 50% of global carbon dioxide emissions. Carbon management includes all the efforts towards the mitigation of GHGs from operations by working towards reducing the carbon footprint and overall energy consumption.

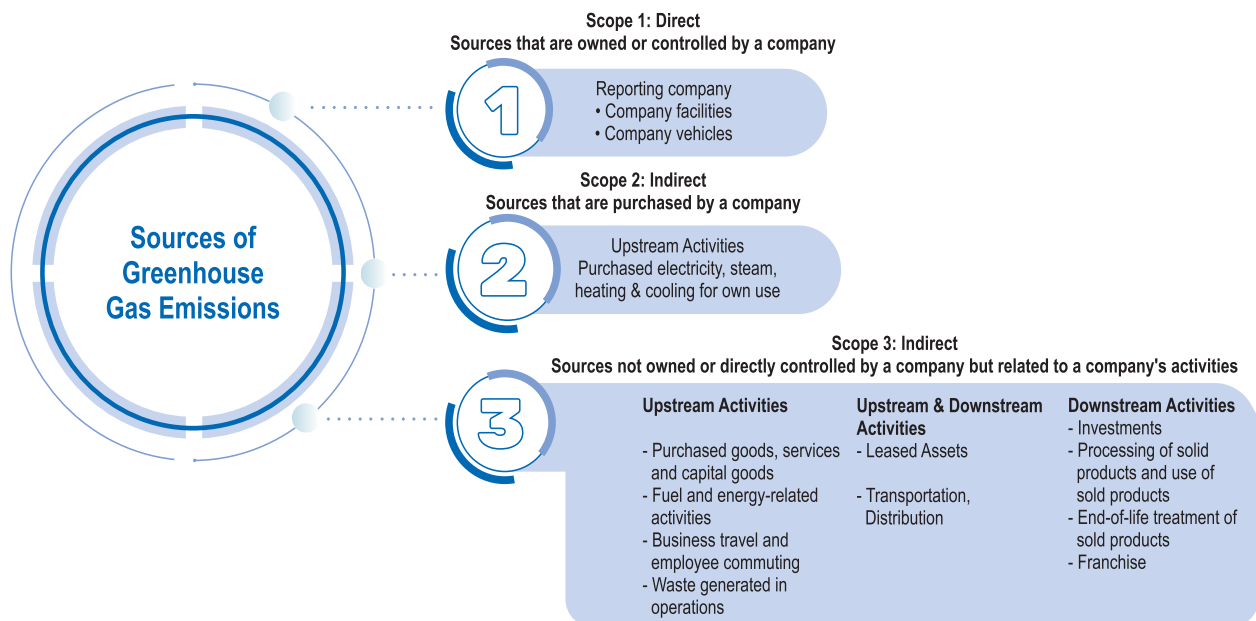
Your challenges

Understanding and evaluating the risks and mitigation measures associated with the climate and sustainability arena is vital for investors, operators and other stakeholders since they can pose as a big threat with loss of revenue as well reputation. Another challenge is with regards to credibility, a key component of climate change projects and sustainability commitment. It increases investors' and regulators' confidence, as well as public support.

How can we help you?

Adopted by 196 parties in 2015, the Paris Agreement, aims at undertaking ambitious efforts to combat climate change and adapt to its effects. Bases the agreement, signatory countries pledged to reduce carbon dioxide (CO₂) and other greenhouse gas (GHG) emissions and achieve a climate neutral world by the mid-century.

At TÜV SÜD, we provide a better understanding of GHG emission impacts across your business value chain, organisational level and/or product life cycle by providing independent validation, verification and assurance services.



Our services

SERVICES INCLUDE	
Climate change services	<ul style="list-style-type: none"> • Project validation and verification • Carbon footprint certification • Low carbon assurance by VERIx • Carbon Neutrality Assurance • CEMS • CORSIA certification
Sustainability assurance services	<ul style="list-style-type: none"> • Sustainability Report Assurance • Life Cycle Assessment • RPO assurance • Supply chain sustainability assessments

Validation of climate change projects

- At TÜV SÜD, we examine a host of issues including project design, reference scenario, additionality, monitoring plan and environmental compatibility before initiating a climate change project
- We provide validation services under various mandatory and voluntary schemes including CDM, VERRA, REED, CCBA and Gold standard

Verification of climate change projects

- After registration of your project/s, TÜV SÜD's experts perform the verification process that includes assessment of monitoring and measuring methods, data retention, and calculation of emission reductions,

which is carried out at regular intervals to ensure the effectiveness and efficiency of your project/s

- A positive "Verification Statement" is one of the pre-requisites for the issuance of certified emission reductions by the UNFCCC and other applicable standards

Carbon footprint certification

- To ensure consistency, TÜV SÜD's experts review and certify your organisation's carbon footprint in accordance with the greenhouse gas protocol, corporate accounting and reporting standard and the ISO 14064 standard
- At the product level, we verify and certify the calculation based on Publicly Available Specification" (PAS) 2050 standard or ISO 14067 standard which builds on the LCA standard ISO 14040

Carbon neutrality assurance

- To ensure consistency of your commitment, we review and certify your organisation's carbon neutrality calculation and report in accordance with the PAS 2060 Specification for the demonstration of carbon neutrality

CORSIA certification

- Accredited by the national accreditation body and registered under ICAO as a verification body, our subject matter experts can verify aircraft operators' annual emission reports
- We facilitate an efficient four-step verification process for aircraft operators according to ISO 14064, and the relevant requirements under CORSIA



Low carbon assurance by VERIx

- VERIx is an established and accepted procedure to validate your efforts to reduce CO2 emissions and verify them to third parties by providing a conformity certificate
- This process accompanies you in two steps for a sustainable and CO2-efficient production
- First, a baseline is verified with the available and proven data that sets the foundation for the present and future improvements
- Based on verified baseline, we prognose the possible CO2-mitigation impact allocated to defined products and/or production processes
- Based on ISO/IEC 17029 – “Conformity assessment — General principles and requirements for validation and verification bodies”, and other relevant international standards (like ISO14067, ISO 14040 etc.), VERIx delivers a high level of impartiality and transparency to CO2 emissions validation and verification
- VERIx is a part of the VX-Edition, which helps other energy-intensive industries to validate their success in reducing CO2 emissions, as a part of the global fight against climate change
- Our VERIx services include VERIsteel, VERIaluminium; VERIconcrete; VERIcast, VERIcement, VERIchem, VERIglass etc.

The 6-step approach



Objective

- Products and manufacturing routes
- Baselines, base years, scope of application



Definition

- Main industrial standard ISO 17029
- Related standards ISO 14040, 14044, 14064, 14067, 22095 and more



Data

- Capturing and processing raw data
- Identifying status quo



Verification

- Plausibility check of processes
- Completeness check of material and energy flows



Validation

- Processing of emissions in data room
- Confirmation of customer's statement
- Preparation of inspection report



Result

- Statement of Conformity
- Inspection report

Your business benefits

- **Minimise carbon emissions** - to significantly reduce your environmental liability
- **Ensure compliance** - with national and international climate related protocols
- **Enhance your brand reputation** - by displaying commitment towards reducing emissions of greenhouse gas
- **Secure impartiality and transparency** - with validation and verification from a strong brand
- **Achieve UN SDGs and other corporate sustainability initiatives** - with our dedicated services



Transform your business today with TÜV SÜD

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