

Carbon Services

Be a partner to achieve the vision and goals of the Kingdom of Saudi Arabia
announced by His Highness the Crown Prince in reducing carbon emissions

Content



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**QUALITY TECHNO
CERTIFICATION**

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▀ About QTC





الهيئة السعودية للمواصفات والمقاييس والجودة
Saudi Standards, Metrology and Quality Org.



المركز السعودي للاعتماد
Saudi Accreditation Center



Inspection
ISO/IEC 17020:2012
AIB 0056



المركز الوطني للرقابة على الالتزام البيئي
National Center for Environmental Compliance NCEC



الهيئة العامة للغذاء والدواء
Saudi Food & Drug Authority

وزارة الشؤون البلدية
والقروية والإسكان
Ministry of Municipal Rural Affairs & Housing



About Us

About the achievements of Quality Techno Certification

The company has achieved distinguished achievements by obtaining many local, regional and international accreditations. These accreditations have enabled it to have a strong presence on the international and local scene in various fields, and its results were the company obtaining a (first-class) classification as a city services provider.

Among these accreditations:

Acceptance from the Saudi Standards, Metrology and Quality Organization **SASO** and the Saudi Food and Drug Authority **SFDA**, enabling it to issue conformity certificates for products in accordance with **ISO 17065**, issue inspection certificates in accordance with **ISO 17020**, and issue ISO certificates in accordance with **ISO 17021**.

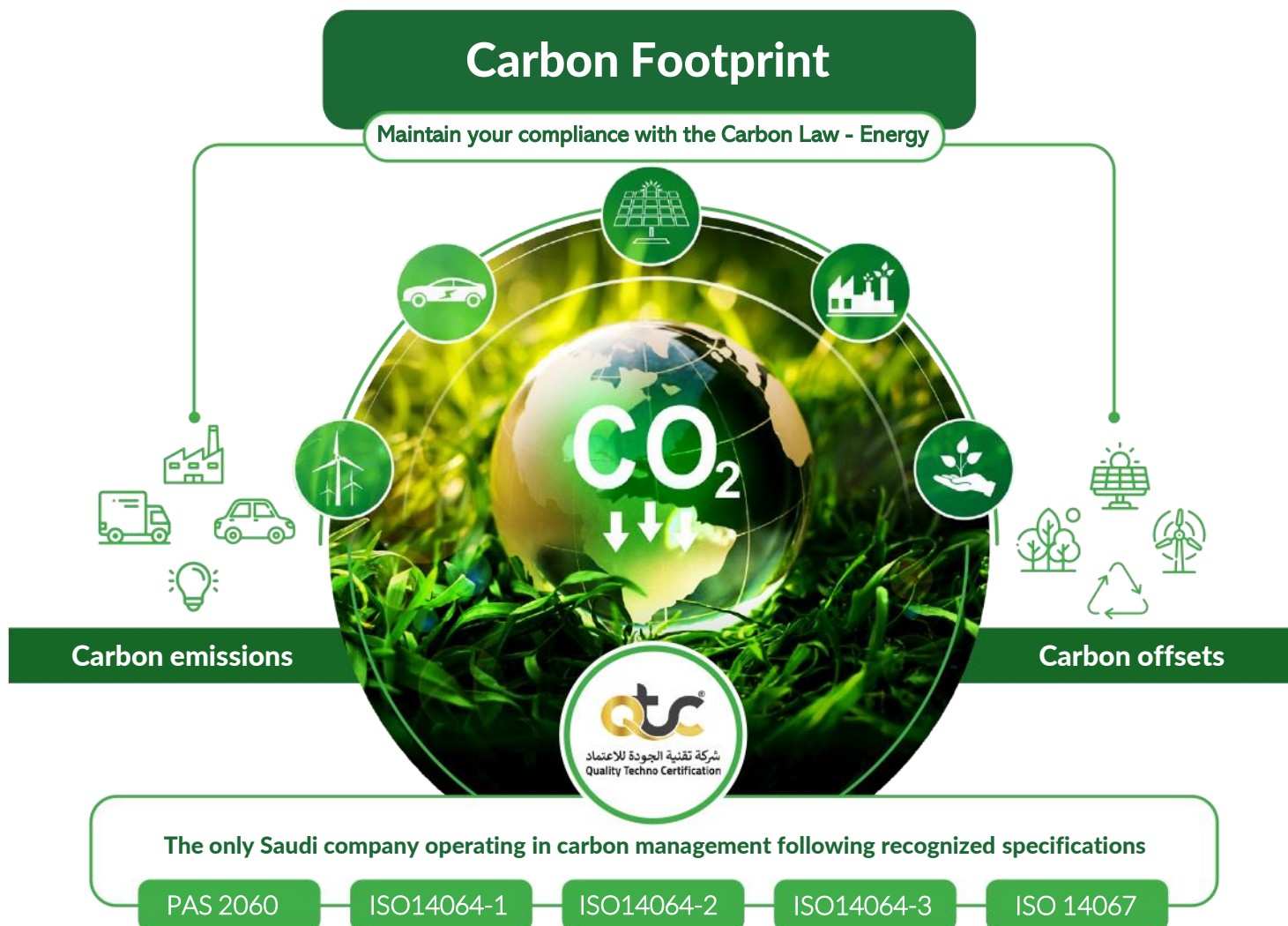
Accreditation in the field of inspection from the Gulf Accreditation Center **GAC** and the Saudi Accreditation Center **SAAC** to conduct inspection and inspection in accordance with the international standard. **ISO 17020** In addition, the company has acceptance in 12 Saudi Building Code **SBC** out of 13 regulations.

The first and only Saudi company in the Middle East to obtain accreditation for **calculating carbon footprint and carbon neutrality**

License from the National Center for Monitoring Environmental Compliance **NECE**, to prepare environmental studies, monitor and control the quality of environmental media and pollution sources according to the objectives of the Kingdom's Vision 2030 with the availability of the required competencies in the field of environmental management system **ISO 14001**

We also specialize in providing consulting services to provide integrated solutions for sustainability.

What is not measured cannot be managed



In line with the Kingdom's Vision 2030 to reduce emissions by 278 million tons per year, QTC has started its carbon footprint calculation services to work towards achieving carbon neutrality and helping entities achieve a carbon reduction plan.

Why QTC is the Best Choice for Carbon Calculations

- **Qualified as a responsible and trusted carbon accounting body due to GAC – ILAC accreditation**
 - The performance efficiency test of the work team and the company's quality system has been passed by certified international auditors
- **It works with a global system methodology by applying international standards for carbon footprint**
 - It works with a global system methodology by applying international standards for carbon footprint
- **Data analysis and audits and inspections of customers**
 - Calculating all carbon footprint ranges (band 1,2,3), and their results are based on accurate data based on a real examination and a realistic assessment of the current state of the site and based on correct measurements and information taken directly from the customer.
 - Create mathematical equations tailored to each project based on client domains and data (we do not use public software for calculations)
- **A national company approved by the legislative authorities in the Kingdom of Saudi Arabia and a source of confidence for the economy and product safety**
- **Covering more than 500 areas of environmental inspection and consulting work**
- **Qualified as an authorized service provider for major companies and Vision Projects**
- **We provide EPD – LEED consulting services to help clients keep pace with global requirements**



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What are QTC Carbon Services



QTC Carbon Services

The QTC team assists entities to contribute to the Kingdom's Vision 2060 for Zero Carbon Neutrality by:



Carbon Trading Inspections

Carbon neutrality plans and strategies

(With the possibility of
following up the
implementation of the plan
to reach carbon neutrality)

Carbon neutrality calculation service

(Carbon Emission Offset
Calculation) via PAS 2060

Carbon footprint calculation and baseline calculation

(Greenhouse Gas Emissions)
across specifications
ISO 14064, ISO 14067
GHG Protocol

QTC Carbon Services

The QTC team assists entities to contribute to the Kingdom's Vision 2060 for Zero Carbon Neutrality by:

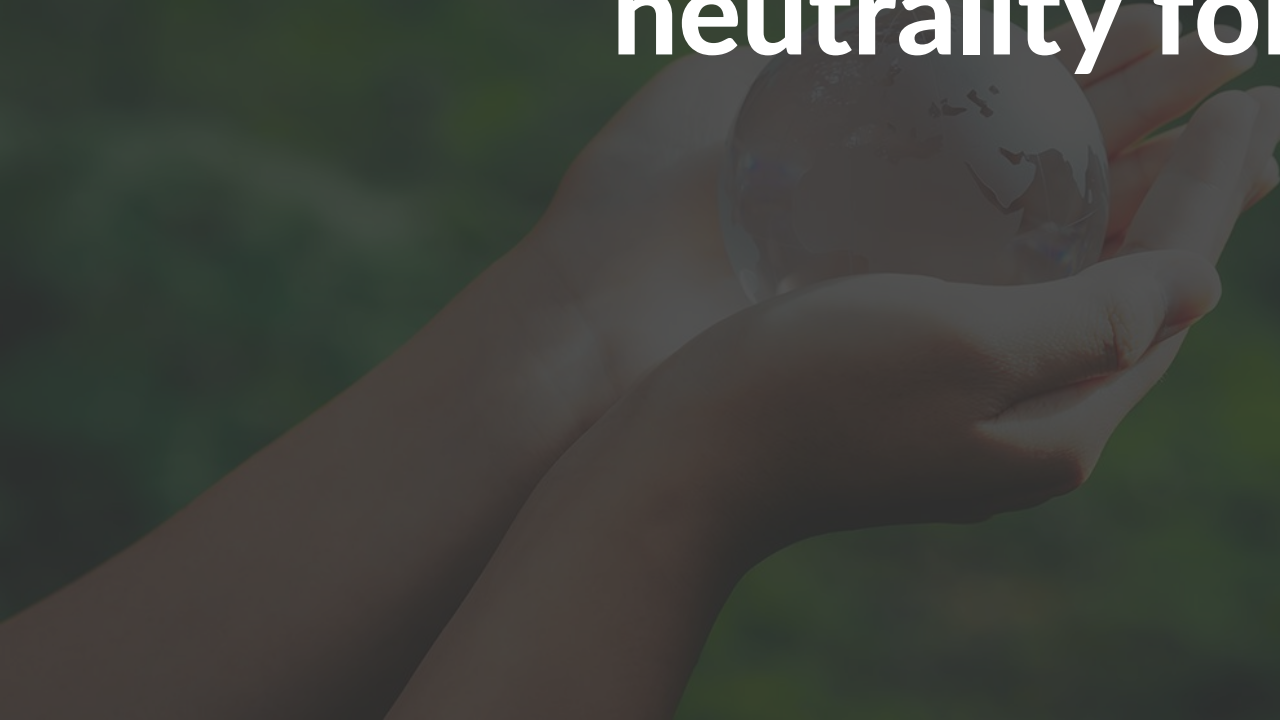


- **Entities (using ISO 14064-1, 2, 3).**
 - **Industrial Establishments Sector.**
 - **Transport sector.**
 - **Energy Installations Sector.**
 - **Construction sector.**
 - **Residential complexes sector.**
 - **Other sectors, including telecommunications, banks and other service providers.**
- **Products and production lines (using ISO 14067)**
- **Government Agencies**
- **Carbon Trading Platforms**



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Carbon footprint and carbon neutrality for **entities**



The benefit of obtaining Carbon Compliance certification for organizations

The Roadmap to Carbon Neutrality – Carbon Credit

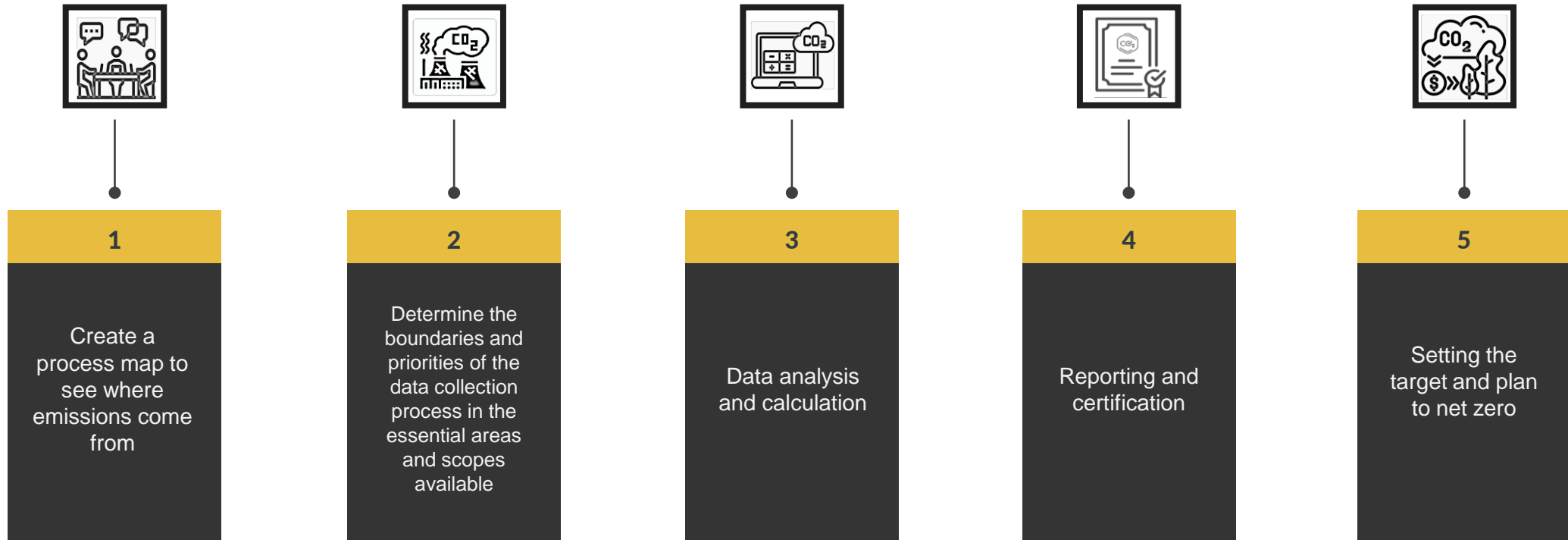


The carbon footprint certificate contains the total emissions of the organization and certifies the organization's compliance to take the first and essential step to contribute to climate change and work to achieve carbon neutrality.

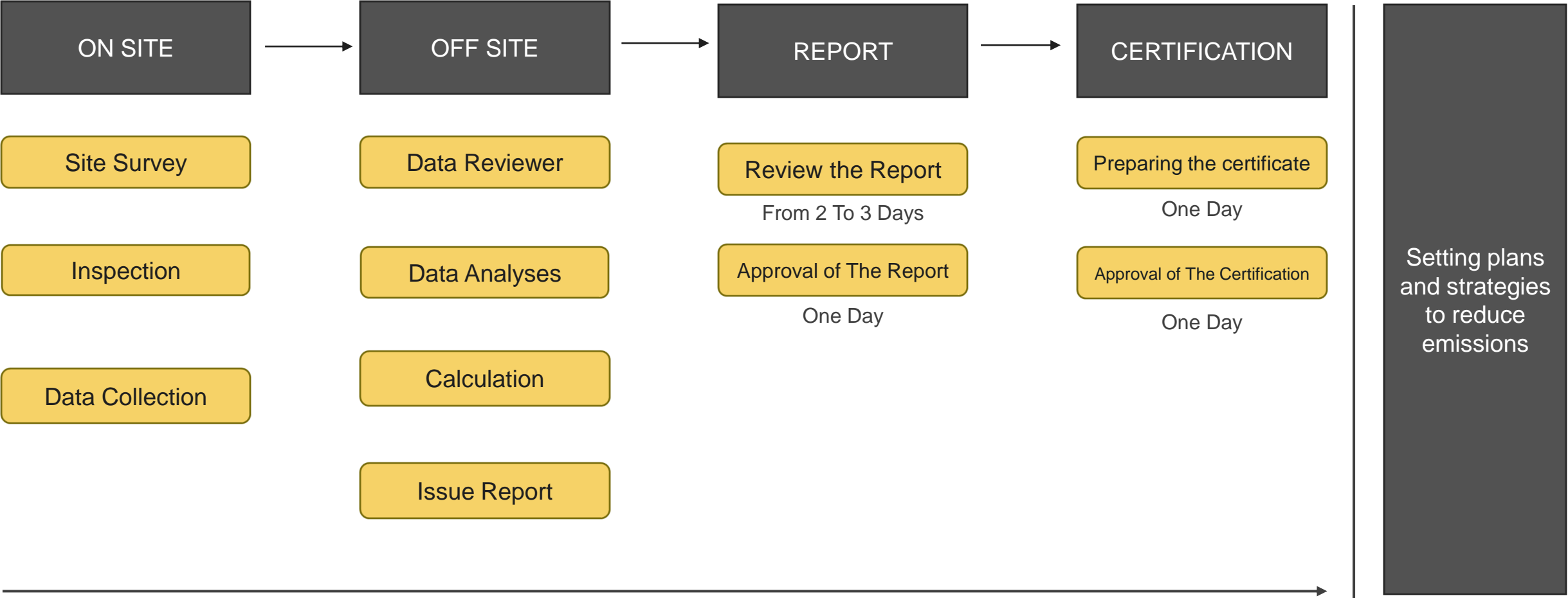
Carbon Reduction Certificate for carbon footprint emissions is obtained when the organization proof the annual emissions reduction from the previous year and its commitment to reducing its carbon emissions annually.

Carbon neutrality certificate is obtained – when achieving the carbon neutrality which is the state of balance between carbon emissions and carbon offsetting or removing of the organization or reducing the emissions to the maximum extent possible and offsetting the remaining emissions by supporting environmental projects.

Steps of carbon footprint calculation for organizations



Carbon footprint calculations timetable



* Working days are determined according to the client's size and activity and do not exceed 60 days

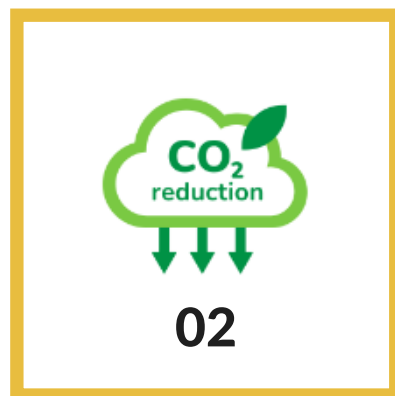
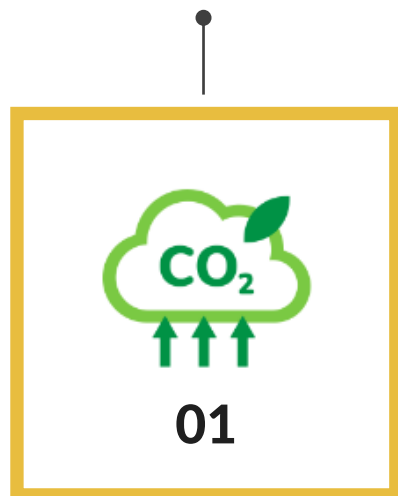
From 3 To 4 Days

From 1 To 2 Days

Mechanism to achieve carbon neutrality

Calculating Carbon Emissions

Calculating carbon emissions
for the organization

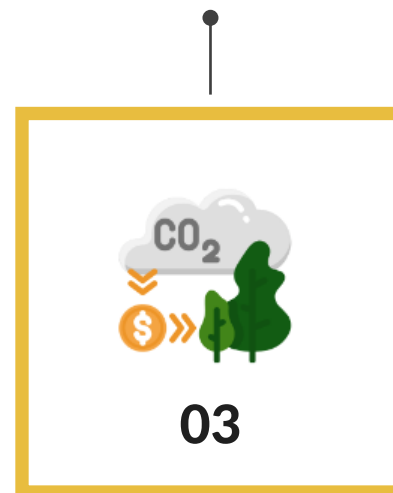


Reducing Emissions
Working on reducing carbon
emissions to the max



Offsetting the Remaining Emissions

Offsetting what cannot be reduced
by buying carbon credit.



Reaching Carbon Neutrality
To assess in Saudi vision
reaching net-zero emissions

Compliance Certificates



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شركة تقنية الجودة للاعتماد
Quality Techno Certification

QUALITY TECHNO
CERTIFICATION
COMPANY

2023
Calculated
CO₂e Footprint

CERTIFICATE

of CARBON FOOTPRINT Compliance

شهادة امتثال البصمة الكربونية

Certificate No:
Report Number:

QTC-XXXX-XXXX
SOA-FRM-RP-61-012023

رقم الشهادة:
رقم التقرير:

Client's Name:
Client's Address:
Client's Activities:

XXX XXX
XXX XXX
XXX XXX

اسم العميل:
عنوان العميل:
نشاط العميل:

This Certificate Acknowledges that:

xxx Is taking the crucial step toward climate change by calculating its CARBON FOOTPRINT to establish a baseline year 2022 resulted in the following overall emissions:

Scope of GHG emissions	tCO ₂ e
Scope 1: Direct Emissions	12,504.31
Scope 2: Indirect Emissions	6,772.47
Scope 3: Indirect Emissions	17,134.85
Total Absolute Emissions- tCO ₂ e	36,411.62
Total "Normalization Per Person served"- tCO ₂ e	27.56

47.10 %
18.60 %
34.30 %

• Scope 1 • Scope 2 • Scope 3

CEO:
Signature:

Ahmed Almaslamani

الرئيس التنفيذي:
التوقيع:

Issued on:
Valid Until:

30/09/2023
09/09/2024

صدرت في:
صالحة لغاية:

This certificate is valid provided that the standards mentioned above are not violated, in case of violations this may lead to the suspension of this certificate.

هذه الشهادة سارية بشرط عدم الخلل بمعايير المواصفات المذكورة اعلاه، في حال وجود مخالفات قد يؤدي ذلك الى تعليق هذه الشهادة.

Quality Techno Certification,
Address: KSA, Riyadh, Al Nariis Dist., 1332
Phone: 0114030301
Email: inspection@qtc.sa
CR number: 1010749162
Rev: QTC-F-7 5.X-XX

Level 1: Committed
Award by SmartCarbon



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Product's carbon footprint



Product Carbon Footprint



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Calculating carbon emissions from the stages of extraction of raw materials, the production process, the generation of required energy and the life cycle of the product from (the stage of extraction of raw materials to the stage of manufacturing to the final stage of transportation and distribution) which is an indicator related to manufacturing processes. The more we use the manufactured materials, the greater the carbon emissions.

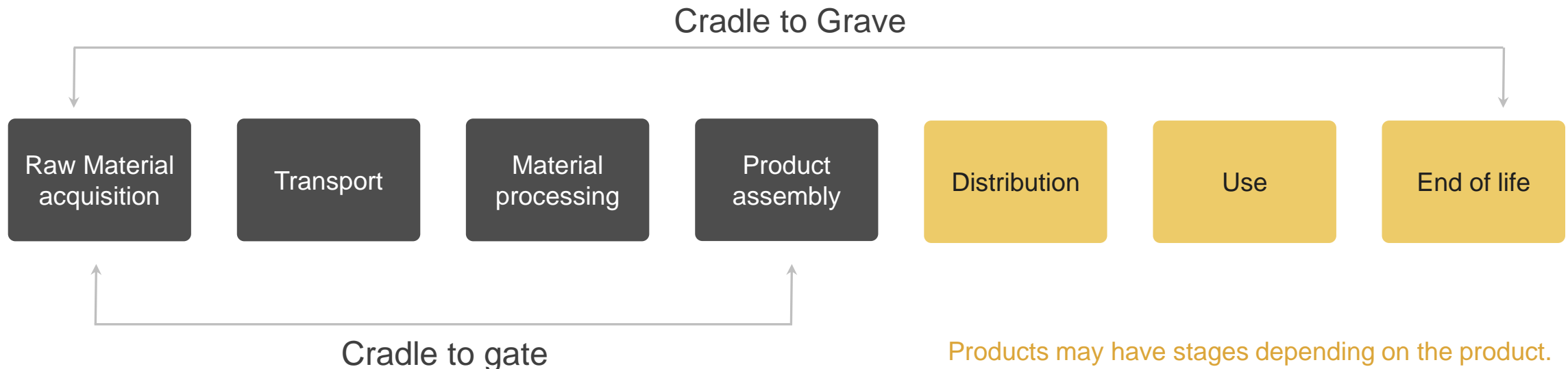
What is the importance of product carbon footprint?

It allows the consumer and customer to understand and know the environmental impact of the product by seeing the details of the emission ratios of the product's raw materials and the processes of manufacturing, transportation, storage, use, and disposal. This process helps in facilitating the selection of the most suitable product for the customer or consumer by knowing the carbon footprint added to it. It helps in improving design the product, increase efficiency, reduce costs, and eliminate risks.

Methodology of product carbon footprint calculation

Types of product carbon footprint:

- **Cradle to grave:** This measures total greenhouse gas emissions from raw material extraction to product manufacturing, distribution, use, until it goes into the landfill at the end of its useful life
- **Cradle to gate:** This measures total greenhouse gas emissions from raw material extraction to product manufacturing up to the factory gate.



Benefits of having a carbon footprint label for products

You can get a carbon footprint label on all your product packaging for the following proof of your products:

- It helps in exporting products abroad by demonstrating the contribution of the organization to act toward the international crisis (climate change).
- Increasing consumer confidence, which is reflected in increased sales.
- Increasing investors' confidence for environmentally friendly and sustainable organizations.
- Assisting the consumer, supplier, and all customers in purchasing products that are committed to calculating their footprint and work to reduce their emissions.
- Provide more sustainable options and facilitate sustainable purchasing.
- It helps in the excellence of competition in the local and global market, as most development and trade organizations calculate the carbon footprint, so preference is given to those who have carbon calculation label for the product.





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Carbon footprint for services



Carbon footprint for services



The carbon footprint of the services is always directly related to the customers, so the customer has the right to know the amount of emission as a result of using the service provided by the operator (which means that the operator must provide carbon information to their customers and thus involve the customer in global responsibility for the issue of climate change)

Some types of services for which the carbon footprint can be calculated:

- **Using phones from calls and browsing**
- **Purchases of all kinds using cards and bank accounts**
- **Rental Transportation**
- **Means of delivering orders through applications**
- **Logistics**



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Carbon Neutrality Strategy



Carbon neutrality and emission reduction strategy

Achieving carbon neutrality or reducing carbon emissions requires a multifaceted strategy with careful coordination and strong commitment. The exact features of this strategy may vary depending on the specific circumstances and needs of each organization, but several basic principles and steps can be applied at the global level.



Plan Construction

Step One: Create a Carbon Baseline

Establish a baseline for the calculation of greenhouse gas emissions to determine the amount of emissions emitted by the activities of the organization or entity. These activities typically include direct emissions from owned or controlled sources, indirect emissions from purchased power generation, and other indirect emissions from regulatory activities such as waste disposal, business travel, and procurement. In line with the globally recognized Greenhouse Gas Protocol, they are classified into Scope 1, 2 and 3 emissions respectively.

Step Two: Setting the Goal to Reach Carbon Neutrality

Setting a goal to reach carbon neutrality This goal illustrates the organization's commitment to reducing net emissions to net-zero. The target is often set after knowing the percentage of baseline emissions and if the customer has a commitment to reach carbon neutrality in a given year or set the target according to international standards.

Plan Construction

Step Three: Develop the plan and find appropriate solutions to reach the specified goal

After setting the target, an action plan for reducing emissions will be created in which all measures will be detailed and appropriate solutions will be found that will be implemented to reduce emissions and work to reduce or switch higher sources of emissions. The plan often includes all possible opportunities to improve energy efficiency, transition to renewable energy, sustainable mobility, waste reduction and optimal management, promotion of sustainable procurement practices and other possible opportunities.

Fourth Step: Carbon offset (purchase or implementation of projects)

Carbon offset: The plan should include carbon offsetting strategies such as financing external projects or implementing projects that help reduce or eliminate greenhouse gas emissions in order to offset emissions that the organization cannot reduce. In this step, all possible opportunities for carbon offsetting are identified locally or internationally and assistance in the implementation or selection of the appropriate and best project.

Plan Follow-up



Follow-up to the plan annually and continuous verification of emission reductions and offsets are essential to ensure that the organization or entity remains on track on the path to carbon neutrality and records progress towards carbon neutrality.

This is often done by establishing a system of data collection, calculation and analysis on an annual basis that helps the customer maintain transparency and credibility by obtaining a list of emission ratios and their sources, a list of applied reduction measures and a list of offset activities.

Implementation of the plan

QTC helps organizations and companies implement their plan, whether it is carbon offsets or carbon solutions, where the help lies:

Carbon offsets:

- As for the purchase of carbon credits from VCM, the regional voluntary carbon company.
- Afforestation Projects

Carbon Solutions

- Study the best technical solutions that are compatible with the nature and activity of the entity or organization
- Contracting with specialized companies to supply technology with emphasis on training and providing spare parts



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Carbon Trading Platform



Carbon trading



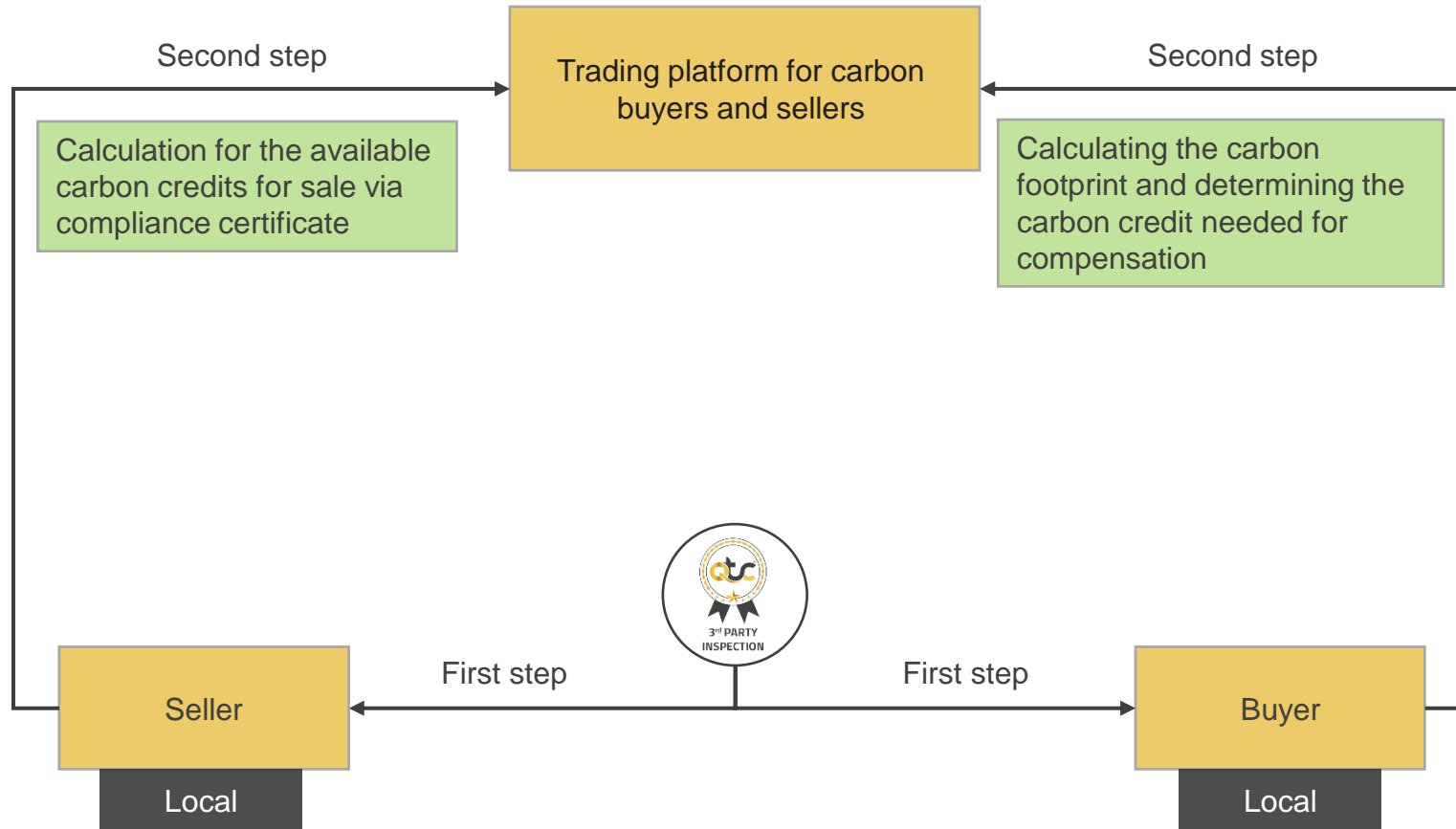
Trading Platform: A global market will be created in early 2024 in Saudi Arabia through the regional voluntary carbon company and the launch of the carbon trading platform

- Building the confidence of foreign investors to invest in carbon offset projects in Saudi Arabia.
- Global carbon resellers and technology solutions owners are oriented to the Saudi market through the platform.
- Motivating all entities of the Saudi sectors to make a certificate of compliance with the carbon footprint and baseline.

An accredited and reliable third-party neutral body for the inspection of the seller and the buyer to ensure the authenticity of the information and issue a certificate of compliance

QTC's role in the platform

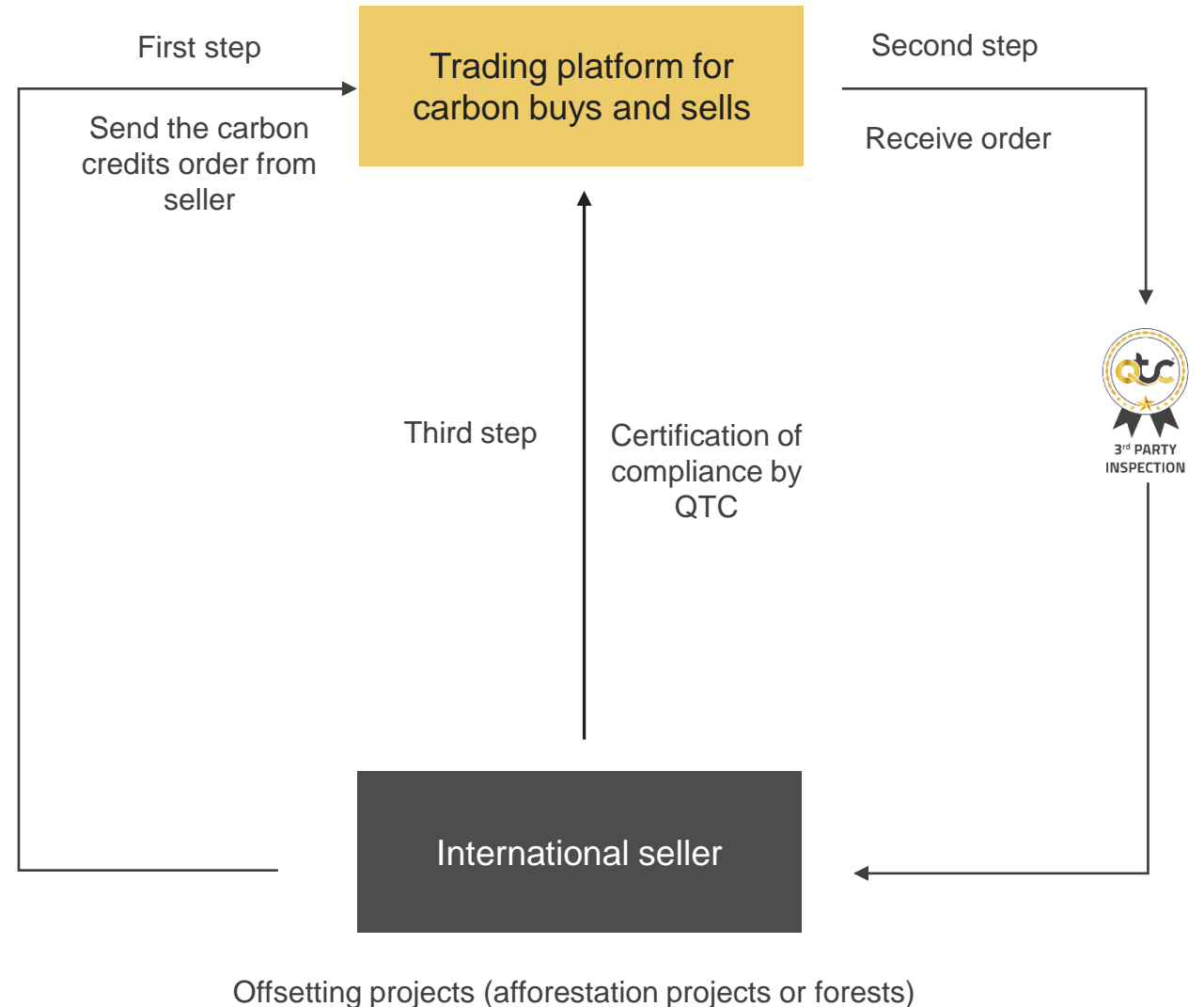
Local Carbon credit trading



- We help diversify the companies traded on the platform.
- Encouraging investment in carbon offsetting projects.
- Increase research and development work for Saudi companies.
- A reliable partner for inspection, follow-up, and carbon calculations.

The international Carbon credit trading

As an independent third party specialized and reliable to make carbon calculations and the calculation of the carbon credit trading for carbon solutions companies and offsetting projects around the world





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▀ QTC is a vendor at





Clients & Partners

We are proud of the success partners of Quality Techno Certification

Clients & Partners

They form the basis of the success of our company. We are committed to providing the highest levels of service and quality to our customers, with a strong focus on meeting their needs and achieving their expectations. We build strong and sustainable relationships with our clients based on trust and transparency.



سابك
عندك



الهيئة الوطنية للأمن السيبراني
National Cybersecurity Authority



الشركة السعودية للكهرباء
Saudi Electricity Company

أرامكو السعودية
saudi aramco



stc



وسط جدة
JEDDAH CENTRAL



Our Accreditation from GAC

<p>Accreditation Procedures</p> <p>10.17 Scope of Accreditation</p> <p>Issue No: 2/ Issue Date: 30.03.2023 File Manager: Hamza Khan</p>		<p>GAC</p> <p>مركز الاعتماد الخليجي GCC ACCREDITATION CENTER</p> <p>ACCREDITED</p> <p>INSPECTION</p> <p>ISO/IEC 17020:2012 No. AIB 0056</p>	
Environmental inspection	<ul style="list-style-type: none"> -Noise -Air quality -Industrial waste -Water -Radiation inspection of Ground Water -CO2 & GHG Emissions - Desertification, afforestation - Quantification and reporting of greenhouse gas emissions (GHG) and removals. - Carbon neutral 	<p>Visual inspection</p> <p>Quality Inspection</p> <p>Quantity inspection</p> <p>inspection and Survey</p> <p>Initial, stage, in-service, periodic and final inspections</p>	<p>QTC-WII-012 Rev 02 Environmental inspection</p> <p>Technical regulations for the protection of water environments from pollution</p> <p>Technical regulations for environmental inspection and auditing</p> <p>Technical regulations for Air Quality</p> <p>Technical regulations for environmental service providers</p> <p>Technical regulations for Noise</p> <p>Technical regulations for preventing and treating soil pollution.</p> <p>For the Environment Law issued by Royal Decree No. M/165 Date: 19/11/1441 AH</p> <p>BS EN ISO14064-1</p> <p>BS EN ISO14064-2</p> <p>BS EN ISO14064-3</p> <p>BS EN ISO 14067</p> <p>Global-warming potential (GWP).</p> <p>2006 IPCC Guidelines</p> <p>LULUCF Regulation 841/2018–Land Use Land Use Change and Forestry.</p> <p>2006 IPCC Volume 4: Agriculture, Forestry and Other Land Use (AFOLU)</p> <p>PAS 2060</p>



CONTACT



Contact Us

We are honored to communicate with us

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Thank you