



PROACTIVE SOLUTION GROUP

CONSULTATION & PROJECTS MANAGEMENT

Sustainability & Carbon Reduction Projects



Proactive Solutions Company established in 2017 help in provide advanced professional Quality, Environment and occupational Health& safety solution & maintenance system in many fields of construction and industries. In addition to providing professional operation, management and training consultation.

Proactive solutions company is a specialized GHG consultancy and carbon project developer dedicated to advancing climate solutions across Egypt and the MENA region. Backed by a team of highly qualified scientists and engineers, our company delivers expert services in carbon footprint assessments, greenhouse gas mitigation planning, and the development of emission reduction projects aligned with international standards such as ISO 14064, the GHG Protocol, and leading carbon market methodologies (Verra, Gold Standard). We are committed to supporting public and private sector clients in achieving measurable climate goals through innovative, science-based approaches that contribute to a low-carbon, sustainable future.



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Introduction

- Egypt is part of the Paris Agreement and has national climate strategies like the **Egypt Vision 2030 and Egypt's National Climate Change Strategy 2050**.

- Growing industrial sector: cement, textiles, energy, agriculture...etc — all significant GHG emitters.

- Government and international funding are increasingly flowing into **green transformation projects**.

- Rising pressure on Egyptian corporations to adhere to **ESG standards** and **carbon disclosure requirements** for global trade.

- Target clients are:

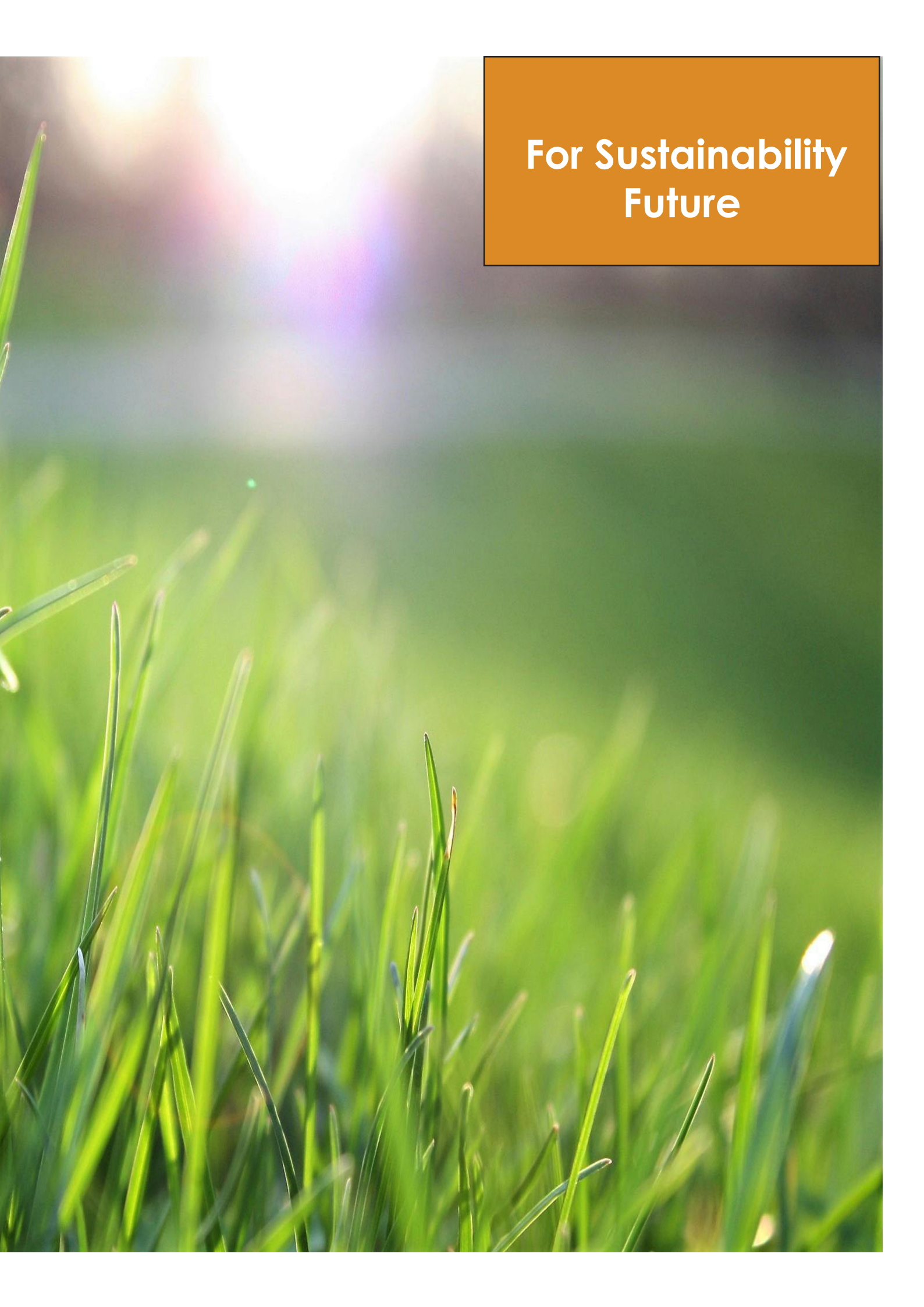
Large Corporates: Especially in cement, construction, oil & gas, FMCG.

Exporters: Facing EU Carbon Border Adjustment Mechanism (CBAM) regulations.

Government & Public Projects: Seeking green certification or compliance.

SMEs and Startups in agriculture, energy, or manufacturing aiming to access carbon markets or green finance.





**For Sustainability
Future**

Is Your Business Ready for a Low-Carbon Future?

With increasing environmental regulations, investor scrutiny, and consumer demand for sustainability, businesses must act NOW to measure, manage, and reduce their carbon footprint.

Why measure your carbon footprint?

- Stay compliant with environmental regulations (GHG Protocol, ISO 14064, SBTi)
- Enhance brand reputation & attract eco-conscious customers
- Reduce costs through energy efficiency & waste reduction
- Achieve sustainability targets & secure green certifications



Why Choose Our Carbon Footprint Consultation?

- **Comprehensive Carbon Audits** Identify emissions across Scope 1, 2, and 3
- **Regulatory Compliance** Align with GHG Protocol, ISO 14064, and Net Zero goals
- **Cost & Energy Savings**
Reduce waste, optimize resources, and enhance efficiency
- **Carbon Reduction Roadmap**
Custom strategies for long-term sustainability
- **Offset & Neutrality Solutions**
Invest in credible carbon offset programs



“Sustainability is Strategy.”

With over 8 years of experience in sustainability consulting, We help organizations navigate the path to long-term resilience, responsible growth, and ESG excellence. From crafting net-zero roadmaps to implementing circular economy strategies and sustainability reporting frameworks, our approach blends industry insight with actionable solutions. We work closely with businesses to align sustainability with core strategy—turning environmental and social responsibility into competitive advantage. Whether you’re seeking to future-proof your operations, meet regulatory demands, or authentically engage stakeholders, We provide the expertise, tools, and vision to guide your journey toward a more sustainable, profitable, and purpose-driven future.

**WHAT
WE
DO??**

“Small Steps.
Big Impact.”



1- Baseline Carbon Footprint Assessment

We work with your team to understand your business. Using your data, we provide you with an accurate picture of your carbon footprint and where the hot spots are. Through a carbon footprint calculation, in accordance with the GHG Protocol, you gain insight into the total greenhouse gas emissions from your company or business activities. This covers your emissions in Scope 1, 2, and 3. This way, you meet the objectives of the Paris Agreement and current and future sustainability legislation.



2- Green house Gases GHG (co2e) Emissions Reduction Strategy

Using our knowledge of decarbonisation rates in your industry and where your organisation's emission hotspots lie, we recommend the most effective carbon reduction strategies. We carry out a project plan for your GHG project. We deliver this in conformance with ISO 14064-2. This allows to ensure the project is established within the strict confines of the standard. This is part of our Carbon Emissions Reduction Services. Our engineers and scientists have been fully trained in ISO 14064 techniques. This allows a project to be developed in conformance with any existing GHG program.

Serves offering:

- Energy efficiency audits.
- Switching to renewable energy.
- Green supply chain and logistics redesign.



3- Carbon Disclosure & Reporting

Help companies comply with EU CBAM reporting.

4- Carbon Offset & Trading Advisory

- Help clients purchase verified carbon credits.
- Guide them on local offset projects (e.g., desert reforestation, sustainable agriculture)



“Together for a Regenerativ

5- Green Houses Gases GHG (co2e) Training Services

A- GHG measuring course (CFP)

This Carbon Emissions/Greenhouse Gas Measuring Course outlines the principles and criteria for organizations to quantify and report their greenhouse gas (GHG) emissions and removals. In addition, it mandates the design, development, management, reporting, and verification of an organization's GHG inventory. The ISO 14064 series is impartial to any GHG program. Therefore, if an organisation is required to comply with a GHG program, the requirements of that specific program must be fulfilled in addition to those of the ISO 14064 series. this course include carbon footprint report creation.

B- GHG Reduction & Environmental impact

This course covers the ISO approved process for managing Projects aimed at reducing carbon emissions using the methodology used in ISO 14064 part 2. this course including preparation for Leadership Energy & Environmental Design LEED GA that could be use as GHG reduction projects. This entry level Course is for attendees who will be involved in Carbon Reduction Projects and GHG emissions projects.

“Cleaner
Choices for
a Better
Tomorrow.”



...e Future.”

6- Green Building Certification Assistance

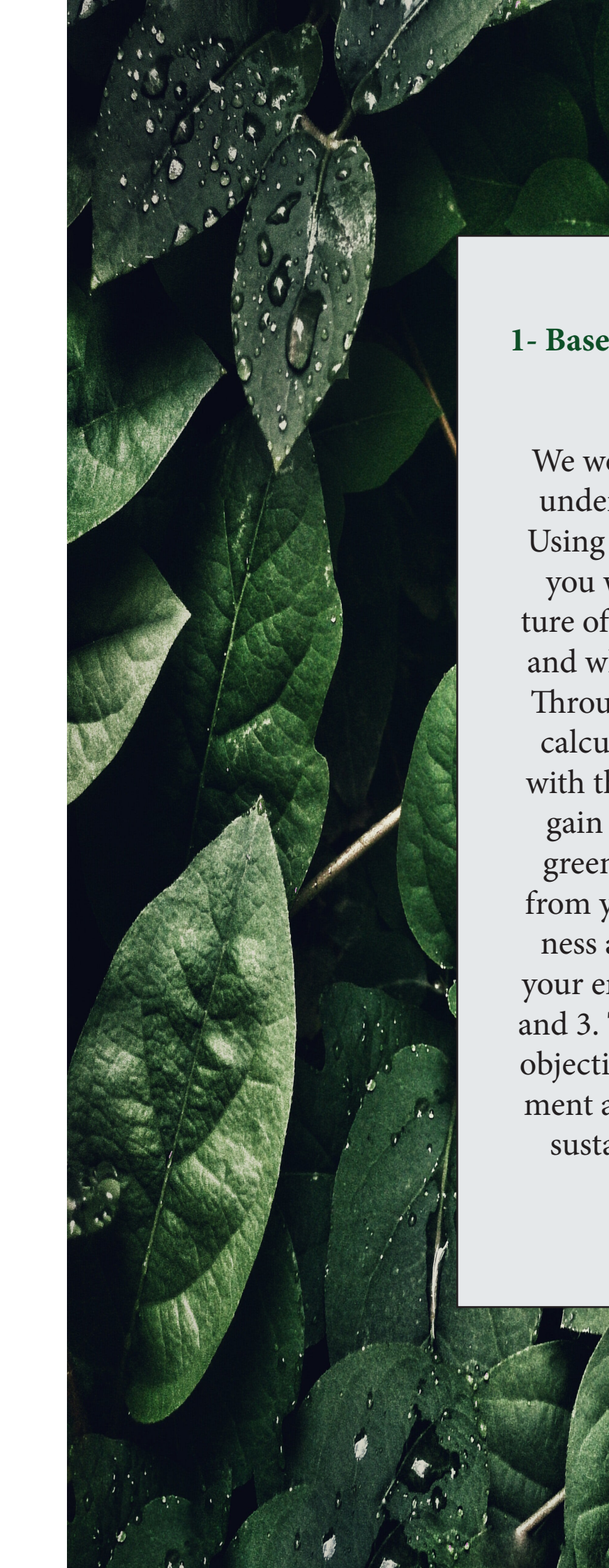
we help construction companies to get green certificates (EX: LEED Certificates) for their projects if existing projects or new/planning construction projects. And provide green solutions for support low carbon emissions for construction projects and occupancy people via improve environmental conditions, save energy and green transportation solutions.





Our Services in Cement Production

we specialize in guiding cement producers toward low-carbon, resource-efficient operations. Our services focus on decarbonization strategies, alternative fuel integration, clinker substitution, and lifecycle optimization to reduce environmental impact while enhancing regulatory compliance and operational efficiency. We help cement companies future-proof their business by aligning with global climate targets and embracing circular economy principles—turning sustainability into a driver of long-term value

A close-up photograph of several green leaves, likely from a plant like a lemon tree, covered in numerous small, clear water droplets. The leaves are vibrant green and show some signs of being eaten, with small holes visible. The background is dark, making the green leaves and white droplets stand out.

1- Baseline Carbon Footprint Assessment

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1- Calculate Direct Emission:

A

Calcination of carbonates, and
combustion of organic carbon
contained in raw materials;

B

Combustion of conventional fossil
kiln fuels;

C

Combustion of alternative fossil
kiln fuels (also called fossil AF or
fossil wastes);

D

Combustion of biomass kiln fuels
(including biomass wastes);

E

Combustion of non-kiln fuels;
and the carbon contained in
wastewater

A. CO₂ from raw material calcination:

Calcination is the release of CO₂ from carbonates during pyroprocessing of the raw meal. Calcination CO₂ is directly linked with clinker production. In addition, calcination of cement kiln dust (CKD) and bypass dust can be a relevant source of CO₂ where such dust leaves the kiln system for direct sale, addition to cement, or for discarding as a waste.

B. CO₂ from organic carbon in raw materials::

the raw materials used for clinker production usually contain a small fraction of organic carbon which is mostly converted to CO₂ during pyroprocessing of the raw meal. The total organic carbon (TOC) contents of raw materials can vary substantially between locations, and between the types of materials used

C. CO₂ from conventional kiln fuels:

Conventional kiln fuels are fossil fuels including e.g. coal, petcoke, fuel oil and natural gas.

Calculation of conventional kiln fuels depend on:

- 1- Fuel consumption in (t, Nm³, liters,... Etc)
- 2- Lower heating values. (LHV) in (GJ/tonne or GJ/Nm³)
- 3- matching CO₂ emission factors

d. CO₂ from alternative kiln fuels:

Alternative Fuels (AF) include fossil fuel based fractions, such as waste tires, waste oil and plastics, and biomass fractions, such as waste wood and sewage sludge. AF serve as a substitute for conventional fossil fuels.

e. CO₂ from non-kiln fuels:

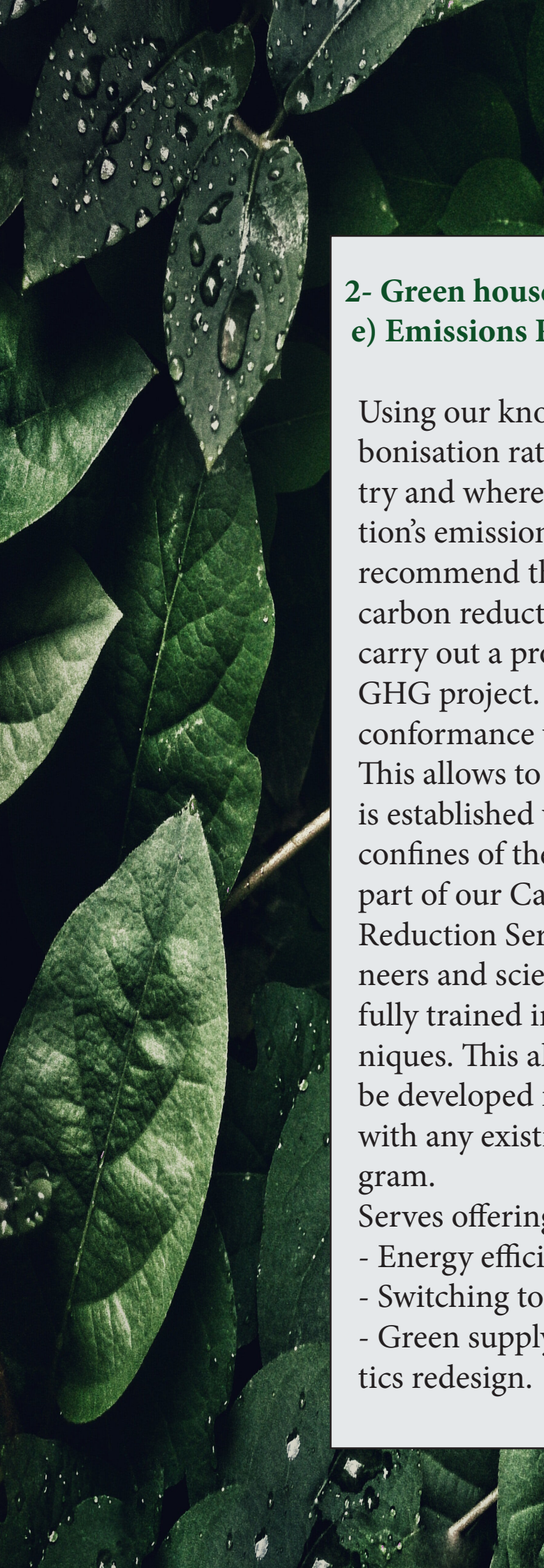
Non-kiln fuels include, for instance, fuels for thermal process equipment (e.g. dryers), auto production of power, plant and quarry vehicles, and room heating.



f. CO₂ from transports:

cement production requires transports for the provision of raw materials and fuels as well as for the distribution of products (clinker, cement, concrete).

“One Planet.
One Chance. Act
Now.”

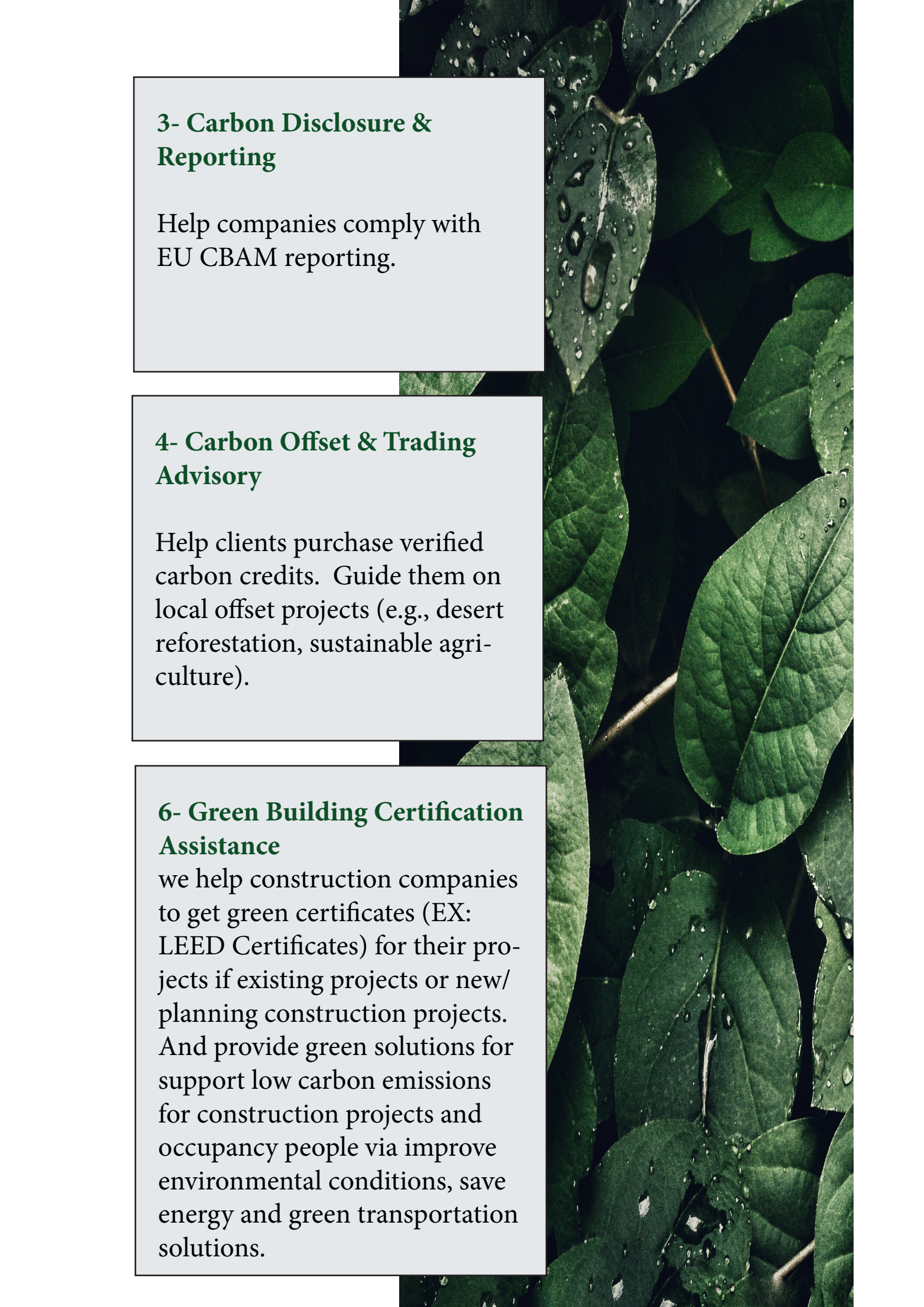
A vertical strip on the left side of the page features a close-up photograph of green leaves. The leaves are covered in numerous small, clear water droplets, suggesting a recent rain or dew. The lighting is soft, highlighting the texture of the leaves and the glistening of the water.

2- Green house Gases GHG (CO₂e) Emissions Reduction Strategy

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6- Green Building Certification Assistance

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Our Services in Building Carbon Reduction

Cut Carbon, Cut Costs — Future-Proof Your Office Building Today Looking to reduce your building's carbon footprint and operational expenses? Our carbon reduction services deliver smart, measurable solutions tailored for modern office environments.

From high-efficiency HVAC upgrades and LED lighting retrofits to solar integration, energy audits, and smart building controls — we help you achieve up to 40% energy savings with fast ROI. Backed by global standards (LEED, EDGE, ISO 50001), our solutions enhance comfort, improve ESG scores, and align with Egypt's Vision 2030. Let us turn your building into a low-carbon, high-performance asset — sustainably and profitably

Sustainability Products & Services for Office Buildings

1. Energy Audit & Building Performance Analysis

- ASHRAE Level 1, 2, or 3 energy audits
- Energy benchmarking (vs similar buildings)
- ROI-based savings action plan
- Building envelope analysis (insulation, glazing, air leakage)

2. Lighting Efficiency Solutions

- Full LED lighting retrofits (offices, corridors, parking)
- Motion/daylight sensor integration
- Lighting layout optimization for lux + energy balance
- Benefit: 40–60% energy savings on lighting

3. Advanced Wall & Rooftop Insulation

- Reduce heat gain by up to 60% in hot climates
- Lower HVAC energy consumption by 20–35%
- Extend building life by protecting internal systems from thermal stress
- Eco-friendly materials (rock wool, polyisocyanurate, spray foam options available)
- Compliant with Egyptian Energy Code & green certification standards

4. High-Performance Solar Protection Films (Window Films)

- Block up to 99% UV rays, more 80% infrared radiation (IRR) and high visible lightening transmission (to avoid excess artificial lighting)
- Cut cooling loads by 10–25% by reducing solar heat gain
- Maintain natural daylight while enhancing occupant comfort
- Fast, non-invasive installation — no construction downtime
- Ideal for glass-heavy office façades in hot and sunny regions

“Sustainable
Spaces,
Profitable
Places.”



“Smart Sustainability for Smarter Workspaces.”

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