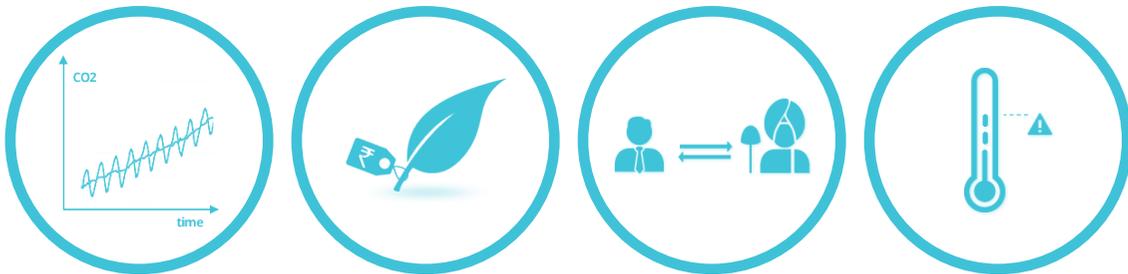


CARBON, COST, COMMUNITIES, CLIMATE



cBalance is a knowledge-centric solutions hub that specializes in tool building and strategy development for integrating carbon ERP into institutional processes, and enabling of measurable, reportable, and verifiable greenhouse gas emissions, energy, water and waste mitigation roadmaps.

BACKGROUND

cBalance has played a vital role as an appointed UNEP expert in developing low- carbon Development Roadmaps for the city of Shanghai and has conducted the Environmental Review of the 2010 Shanghai World Expo, as well as the DLF IPL 2010.

cBalance’s involvement was instrumental in creation of the building energy benchmarking tool developed as part of the USAID-BEE’s Eco3 Project. Furthermore, the company conducted the first ever organizational and product carbon footprinting assessment for a public sector company in India- Central Coalfields Limited.

VISION

Our vision is to seek to facilitate balance in carbon, ecological cost, and local communities to enable balance in global climate

MISSION

Our mission is to create tools for, and consult industry, institutions and consumers, enabling development of GHG and ecological footprint mitigation roadmaps, all in the pursuit of limiting global temperature rise to 2 degrees centigrade relative to pre-industrial levels by year 2100; thereby promoting sustainable development of all human communities and their interrelated ecosystems.

WHO WE ARE

- 01 A Bureau of Energy Efficiency (BEE) Certified Energy Auditor
- 02 Developer of the first India-specific GHG Emission Factor Database
- 03 The India-associate of Best Foot Forward/Anthesis (UK)
- 04 An empanelled GHG Inventory Consultant with 'The Green Signal' - India's first sustainability ecolabelling program

OUR GOALS

Organisational sustainability is becoming increasingly important, not in the least in India. It is no longer a “nice to have” approach, as it forms an essential part of business and enterprise strategy, leading not only to risk reduction and efficiency gains but also improved credentials for customers, employees and investors and even greater innovation!

Integration

We assist integration of Carbon ERP into an enterprise’s business DNA without intruding on existing core business practices.

Institutionalisation

At cBalance we develop and enable institutionalization of sustainability strategies leading to Business Excellence for enterprises

Risk optimization

Our goal is to enable resource-efficiency of the organisations, focusing on minimisation of the key risks: energy, water, waste, materials and carbon, thereby helping organisations become future ready for when the resource crunch becomes undeniably real

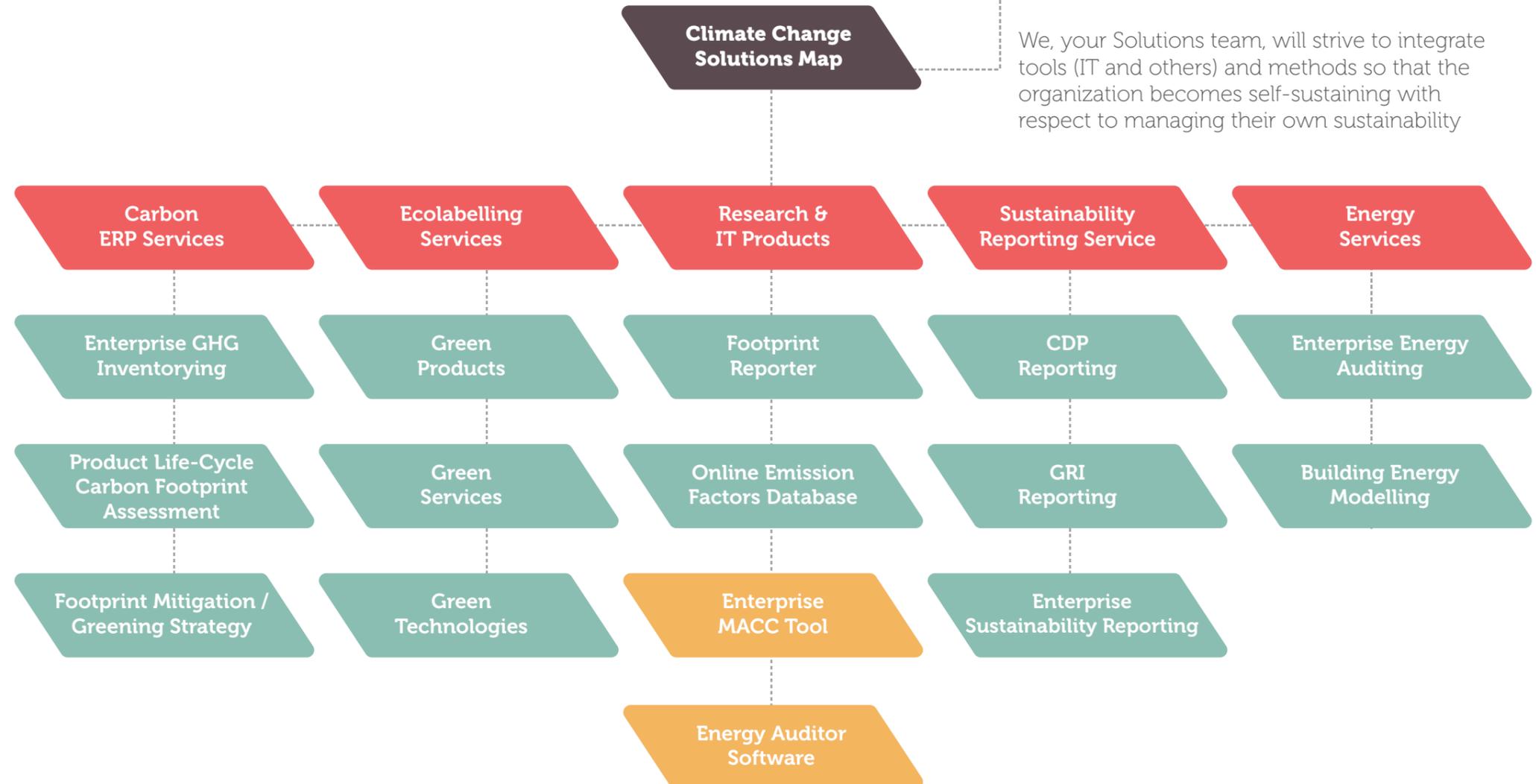
Carbon Footprint is a measure of the total quantity of gaseous emissions of Greenhouse Gases emitted by an individual or an entity in one year; directly (such as by burning fuel), or indirectly (through consumption of electrical energy, products and services).



WHAT WE DO

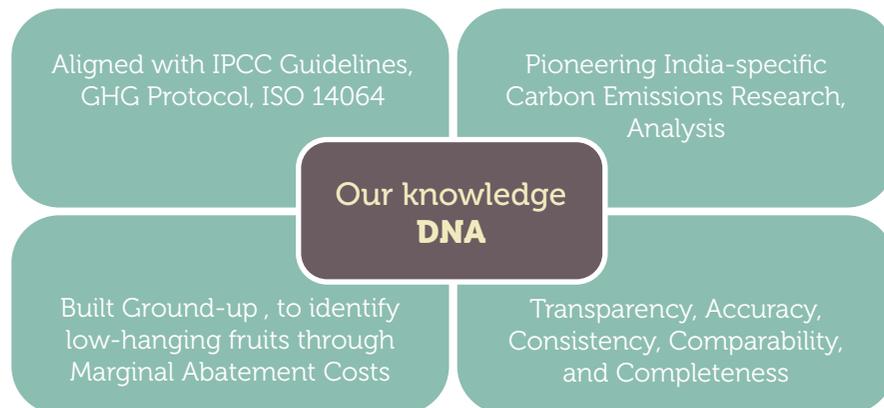
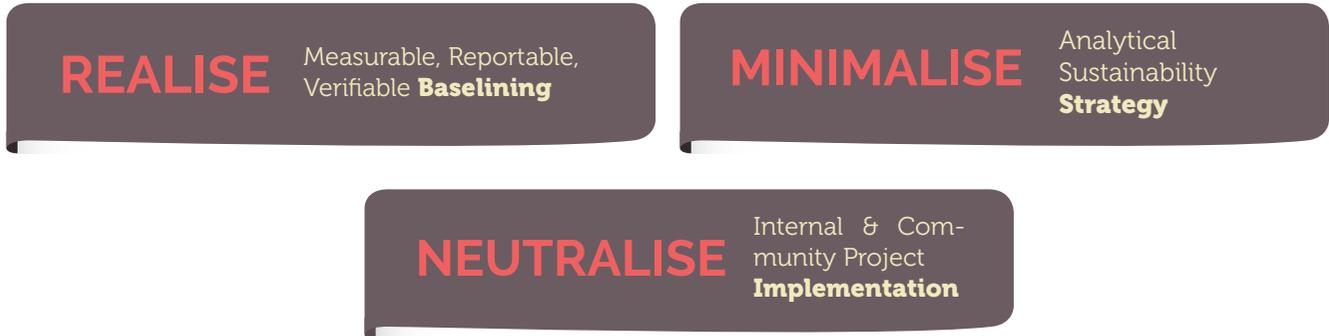
Our belief – a great Solutions team is one that eventually renders itself redundant.

We, your Solutions team, will strive to integrate tools (IT and others) and methods so that the organization becomes self-sustaining with respect to managing their own sustainability



Carbon ERP (Enterprise Resource Planning) Services

Follows an uncomplicated three phase approach which communicates directly to any rational thinker:



Sustainability Roadmaps

Enterprise-specific *Marginal GHG Abatement Cost Curve (MACC)* analysis- a key component of an institutionalized Sustainability strategy.

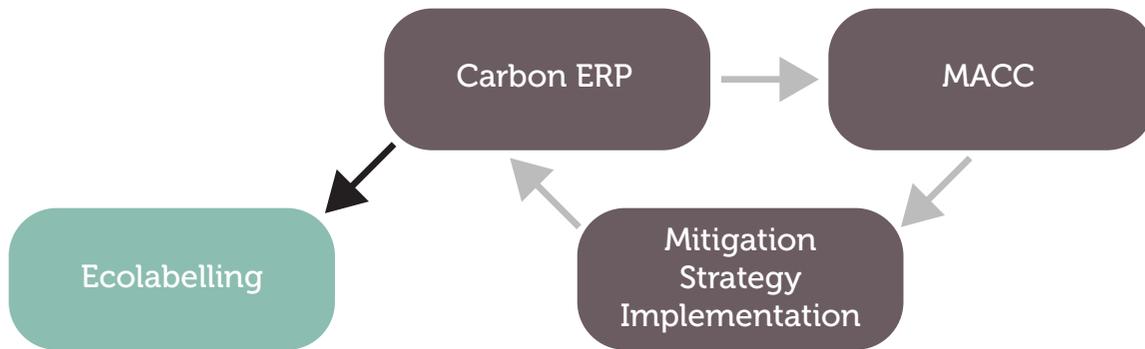
Designed to discover the most cost-effective means of mitigating climate change impact through technological interventions in management practices.

Integrated as a vital decision-support input for planning capital expenditure on Energy Efficiency, Water Conservation, Waste Reduction & Management and other projects in a manner that safeguards the financial sustainability of the organization while achieving tangible environmental and socio-economic sustainability benefits for the planetary ecosystem.

Ecolabelling Services

"Ecolabelling" - a voluntary method of environmental performance certification and labelling which identifies overall environmental preference of a product or service based on life cycle considerations. In contrast to "green" symbols or claim statements

developed by manufacturers and service providers, an ecolabel is awarded by an **impartial third-party** in relation to certain products or services that are independently determined to meet **environmental leadership criteria**.



cBalance is a qualified GHG inventorying consultant approved by the The Green Signal (TGS) Ecolabelling body's Steering Committee to provide services to and represent candidates for Ecolabeling of products and services towards earning the Ecolabels awarded by them.

TGS is India's only Sustainability Ecolabel and is supported by the IIM-A's Center for Innovation Incubation and Entrepreneurship (CIIE).

TGS operates ecolabelling programmes for **hotels, online and physical retail stores, textiles, cement, iron & steel, paints, airlines, restaurants, water pumps, packaged water and events**. cBalance looks to working with enterprises in all these domains to enable them to acquire an ecolabel reflective of their measurable environmental practices.

Research & IT Products

Accurate. Swift. India-Specific

Our research hub supports GHG Inventory projects across various sectors of the Indian economy. A key value-addition we bring to these projects is an exhaustive set of continually magnifying scope of **GHG Emission Factors**.

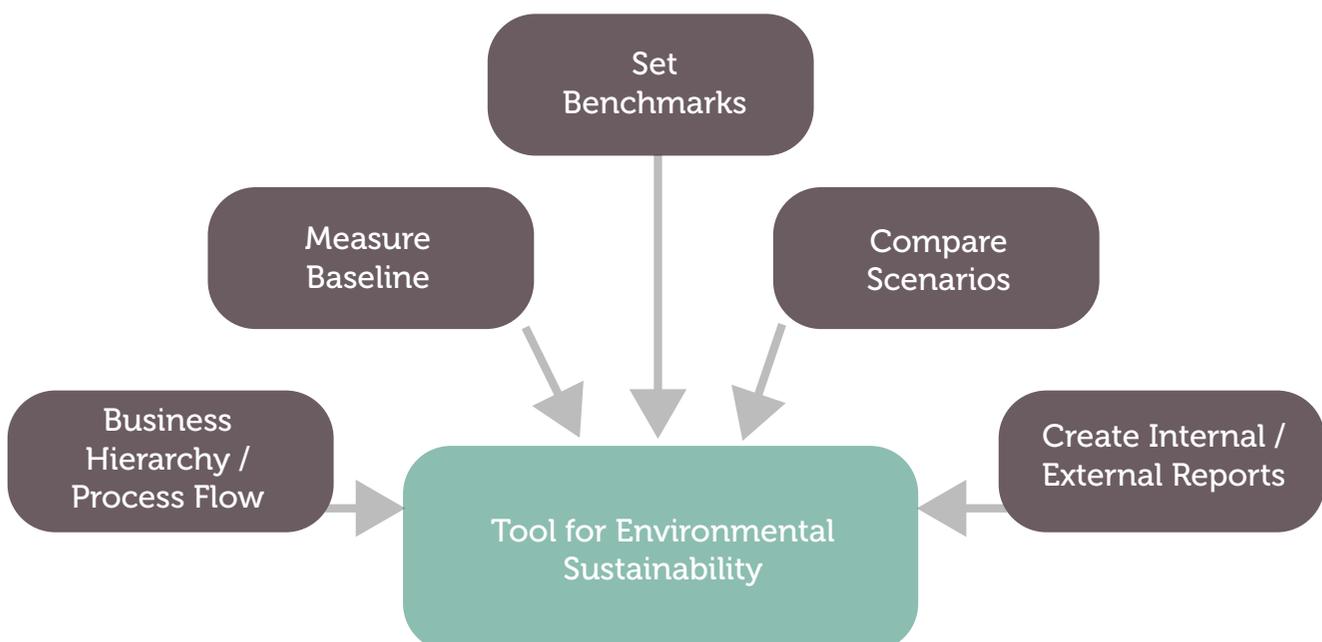
To stimulate higher quality GHG inventory research amongst the academic and scientific community, and facilitate an increasing penetration of the practice of voluntarily disclosing company carbon footprints in India, we have created these intuitively structured, designed, and easy-to-master software tools to transform any practitioner in the fields of climate change research or corporate sustainability into a supremely-tooled GHG inventory expert.

cBalance-Footprint Reporter™



This level of exhaustive research and analysis towards creating India-specific emission factors is unmatched in India. The tool is designed to:

- Enhance Reliability, Reduce Human Error - 'Leakproof' Data Management, Analytics, & Reporting System
- Reduce Effort- a robust India-specific emission factor database (19,000+ GHG emission factors), anticipated reduction of man hours by 50- 75%
- Increase MRV of Sustainability Program- seamless PDF reporting and activity data, emission factors, and GHG inventory results/analytics export features of the tool
- Alignment with Global GHG Reporting Protocols- India-specific Tier 2 GHG emission factors developed in alignment with IPCC 2006, EMEP/EEA, GHG Protocol methodologies



The Emission Factor Database of this GHG Modelling and Reporting tool currently contains 19,000+ unique coefficients, encompassing the major categories including **Energy, Water & Wastewater, Waste, Mobility, Services, Food & Beverages, Materials, Industrial processes and AFLOU.**

The emission factors are not only India-specific, but are also region and brand-specific. This vast database is reviewed and updated annually.

Primary Emission Factors	Basic scope 1 & 2 emission factors for activities such as energy industrial process and product use, and waste
Derived Emission Factors	Emission factors derived from econometric analysis, technology analysis to yield factors for use with non-standard activity data such as cost, distance, duration, area etc.
Life-Cycle Emission Factors	Emission factors for various materials that include direct and indirect emissions (scope 3 emissions) from activities over the life-cycle of extraction, production, distribution and disposal
Implied Emission Factors	Company level / brand level emissions factors calculated based on publically available activity data such as steel sector, cement sector, fertilizer sector etc.

Sustainability Reporting Services

cBalance provides **CDP, GRI Reporting** and **ISO 14064** certification services.

Post implementation of a Sustainability Strategy Reporting can provide the following benefits:

Leverage: Ecolabelling process prepares the enterprise for further certifications and voluntary disclosure schemes

Differentiate: Beat the 'greenwashers' in the race for capturing the consciousness of the conscious consumers of India - and do it not through words, but through the transparency of numbers and data disclosure.

Access: Disclosure, reporting and ecolabelling through globally recognized and authentic platforms facilitates access to global supply chains and the growing conscious consumption community globally and domestically.

Project Dashboard

Technology & Research

fAIR CONDITIONING

NOE21- Geneva based NGO works in partnership with cBalance across identified fields for direct intervention with the goal of accelerating the development of a culture of energy efficiency in indoor thermal comfort

Detailed energy and water audit of company operations to estimate potential for energy conservation across all operations and facilities



HUMBOLDT-UNIVERSITÄT ZU BERLIN



Knowledge and implementation partner of the Sustainable Hyderabad's: 'Implementing cooperative and technical solutions to increase energy efficiency in irrigation' Project.



Development of online household energy-minimization scenario-modelling tool (conducted by the team as Eliminate Carbon Emissions Pvt. Ltd.)



Developed Sectoral GHG Inventorying and Benchmarking Tools for inventorying publicly listed companies in BSE 500, Cement Sector and Steel Sector (conducted by the team as Eliminate Carbon Emissions Pvt. Ltd.)

Project Dashboard

Events



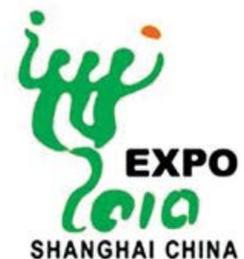
DLF-IPL 2010 Carbon Footprinting as appointed by the IPL Commission based upon the recommendation of the UNEP Sports and Environment Unit (conducted by the team as Eliminate Carbon Emissions Pvt. Ltd.)

National Institute of Technology (NIT), Karnataka: Event Carbon Footprinting of Engineer 2010 Tech Fest and GHG Mitigation Strategy development for future editions of the annual technical festival (conducted by the team as Eliminate Carbon Emissions Pvt. Ltd.)



IIM-Ahmedabad 'Chaos 2010': Event Carbon Footprinting of Chaos 2010 Cultural Fest and GHG Mitigation Strategy development for future editions of the annual cultural festival (conducted by the team as Eliminate Carbon Emissions Pvt. Ltd.)

Appointed by the UNEP Sports and Environment Unit to conduct the Final Environmental Review of the Expo through an intricate study of the impact of various sustainability interventions during the expo and development of environmental policy recommendations for application across the city of Shanghai and neighbouring region.



Xperience Efficiency Yatra-2013: Event Carbon Footprinting of 50-city tour including Scope 1, Scope 2, and Scope 3 emissions – including visitor travel and hotel stay mapping and footprinting based on sample surveys of guests and footprint organizers

Project Dashboard

Real Estate / Built Environment



Development of the Guidance Manual for Design and Preventative Mechanisms for complying with National Environmental Regulations/Acts and developing excellence with respect to Water & Wastewater, Air and Solid Waste Prevention and Control Mechanisms. (conducted by the team as Eliminate Carbon Emissions Pvt. Ltd.)

Nationwide commercial building energy consumption data collection framework development, execution and analysis support for the USAID-Bureau of Energy Efficiency's (BEE) effort to create an enhanced benchmarking tool utilizing regression-based peer-group comparison methodology (conducted by the team as Eliminate Carbon Emissions Pvt. Ltd.)



Embedding cBalance-Footprint Reporter™ tool with the goal of enabling life-cycle GHG Inventorying of Sustainable Habitat Design, Construction and Operations functions of the foundation. Carbon Neutral Living and Voluntary Carbon Tax road-map development and second-party auditing of GHG inventory.

Hospitality

Development of an enhanced sustainability roadmap for the Pune property with the view to issue an ecolabel for the hotel chain including energy and water audits.



Ground-up GHG Inventorying, Carbon Footprint Mitigation roadmap development, and last-mile consulting to deploy footprint reduction practices & mitigation technologies (conducted by the team as Eliminate Carbon Emissions Pvt. Ltd.)

Project Dashboard



Neemrana Hotels.: Ground-up GHG Inventorying in preparation for Carbon Footprint Mitigation roadmap development at the flagship property - Neemrana Fort Palace (conducted by the team as Eliminate Carbon Emissions Pvt. Ltd.)

CGH Earth Hotels: GHG Inventorying, Sustainability Reporting, and Ecolabelling of entire Resort Hotel Chain - 12 properties – across Tamil Nadu and Kerala



Hotel Carbon Measurement Initiative (HCMI) compliant Carbon Footprinting and Voluntary Carbon Tax Model development for FERN Hotels flagship property – Meluha, the FERN Ecotel Hotel, Mumbai

Khar Gymkhana: Conducted detailed energy and water audit of facilities to estimate potential for energy conservation across all club operations and facilities



Manufacturing



GHG Inventorying of Ashok and Piparwar Project Coal Mines including energy and non-energy emissions for developing product life-cycle carbon footprint

Bibo Water: Ground-up GHG Inventorying, and Life-Cycle Product Carbon Footprinting to assess relative GHG intensity of manufacturing and logistics operations across bulk and retail bottled water lines and 3 bottling facilities (conducted by the team as Eliminate Carbon Emissions Pvt. Ltd.)



Project Dashboard



Ground-up GHG Inventorying, Carbon Footprint Mitigation roadmap development, and last-mile consulting to deploy footprint reduction practices & mitigation technologies (conducted by the team as Eliminate Carbon Emissions Pvt. Ltd.)

Dailydump Home Composting Systems: Product Carbon Footprinting, Methane Emissions Measurement methodology development, and Ecolabelling of Earthen-Pot based Home Composting Systems.



Nanojosh Green Energy: Product Carbon Footprinting and Ecolabelling of Fuel-efficiency improvement bio-diesel based additives (ongoing)

Gits Food Products: Cradle-to-Gate Product Life Cycle Carbon Footprinting (according GHG Protocol's Scope 3 Standard) and Carbon Hotspot Analysis, Sustainability Target Setting and Roadmap development



Services Sector



Supply Chain Carbon Footprinting, Product Carbon Footprinting, Ecolabelling and Sustainability Reporting for Online Sustainable Products Retail enterprise

Emission Factor development and technical support for estimating carbon footprint conservation from recycling of inorganic component of household waste for their home-level recyclable waste management service.



Project Dashboard



Conducted detailed energy audit of one of the Banks Large Branch, and Load Products Office Buildings to estimate potential for transforming the Energy Performance Index of ICICI Buildings to achieve a BEE 2-Star Rating.

GHG Inventorying, Sustainability Reporting, and Ecolabelling of the Management College to make it the first Ecolabelled Educational Institution in India



Our Associates



Part of the Anthesis Group www.anthesis-group.com

Afforestt is a service provider for creating natural, wild, maintenance free, native forests. At Afforestt, we work passionately on and off-site to provide the best solutions at the lowest possible cost.



myclimate is your partner for effective climate protection – both locally and globally. We want to shape the future together with you through consultation, education and carbon offset projects.

Reap Benefit engages youth and children on everyday elements of environment through a scientific behavior change process, creating a ripple effect in all walks of lives.





GET IN TOUCH

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