

Scope 3 Emissions Tracking & Reporting

GHG Accounting, Decarbonization Strategy, and Net Zero Roadmap for GCC Industries: A Comprehensive Course.



DATES

13th - 15th
May 2026

VENUE

Dusit Thani Hotel,
Dubai U.A.E.

Dr. Daniel KG Chang

Expert in circular economy, Industry 4.0, and ESG.

COURSE TRAINER

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INDUSTRY LEADERS

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Course Overview

This 3 day program equips participants across the UAE and GCC with a comprehensive understanding of greenhouse gas management, decarbonization strategies, and carbon accounting across Scope 1, 2, and 3. The training is aligned with GCC national visions UAE Net Zero 2050, Saudi Vision 2030 & SGI, Oman Vision 2040 and incorporates global frameworks such as GHG Protocol, ISO 14064, SBTi Net Zero Standard, and IFRS S1/S2 climate disclosure elements. Participants will learn to measure emissions, model carbon impact, identify decarbonization opportunities, manage supply chain driven Scope 3 emissions, and build an actionable, GCC relevant Net Zero roadmap tailored to regional infrastructure, climate commitments, and industry specific priorities (energy, utilities, construction, manufacturing).

Key Learning Outcomes

- Explain the scientific foundations of GHG emissions and decarbonization, and interpret global and regional institutional pressures including Paris Agreement and COP outcomes that shape GCC climate action
- Differentiate between key global GHG frameworks (ISO 14064, GHG Protocol, SBTi, and IFRS S1/S2) and evaluate their relevance and application within GCC organizational contexts
- Assess how GCC national climate commitments (UAE Net Zero 2050, Saudi Vision 2030, Oman Vision 2040, etc.) intersect with and influence corporate decarbonization priorities and risk exposure
- Apply GHG carbon accounting principles to measure and classify Scope 1, Scope 2, and Scope 3 emissions across diverse operational systems and value chains
- Perform accurate carbon calculations and modelling using activity, spend, and hybrid data methodologies supported by credible emission factor sources
- Identify and evaluate practical GHG reduction strategies including energy efficiency, LED/HVAC upgrades, green buildings, solar/renewables, circularity, and carbon credits relevant to high emitting GCC sectors
- Develop a structured and realistic decarbonization roadmap aligned with organizational goals and, where applicable, SBTi near term and long-term pathways
- Design effective stakeholder engagement strategies to support organization-wide GHG integration across leadership, operations, procurement, suppliers, and external partners
- Manage Scope 3 emissions by mapping supply chain hotspots, engaging suppliers, and improving the quality and reliability of upstream and downstream carbon data
- Leverage operational and business data systems to produce accurate, transparent, and decision useful GHG reporting aligned with global disclosure expectations
- Formulate an actionable implementation plan that integrates GHG management and decarbonization into corporate strategy, governance, procurement, operations, and financial planning

Methodology

- Case Studies (Mandatory): Real GCC and global decarbonization scenarios used to translate concepts into practical decision-making.
- Interactive Workshops & Hands-On Calculations: Participants engage directly with Scope 1, 2, 3 modelling, carbon accounting exercises, and decarbonization planning.
- Group Discussions & Peer Learning: Facilitated dialogues to explore sector challenges, regulatory pressures, and shared best practices across GCC industries.
- Scenario-Based Simulations & Strategic Planning: Guided real-world simulations to develop Net Zero roadmaps, supply chain strategies, and organizational GHG integration plans.

Course Facilitator

Dr. Daniel KS Chang

Expert in circular economy, Industry 4.0, and ESG.



Dr. Daniel is an accomplished professional in business development, sustainability, and investment. He holds a DBA from IPE Management School, France (research focus: ESG and private investment policy), an MBA in E-Commerce from Charles Sturt University, Australia, and an IAA Diploma in Advertising from New York. He is currently pursuing a second PhD in Mathematical Science at UCSI University, Malaysia, investigating public policy on green growth development.

He is an Accredited HRDC Trainer with expertise in sustainability plans, ESG compliance, and circular economy concepts. Dr. Daniel has held leadership roles including Principal Consultant at Agenda Advisory, Chief Sustainability Officer for Hornbill Venture Holding, and Partner at Kristoff Capital Group. He is experienced in business modeling, design thinking, circular economy, and Industry 4.0, and has a strong track record in company growth, ESG training, and investment strategies across ASEAN and MENA.

Dr. Daniel has delivered 20+ ESG & sustainability training programs across ASEAN and MENA. Key clients include TAQA (Abu Dhabi), Emirates Global Aluminium, MAADEN (KSA), Etihad Airways, Sands China Ltd, Bank Negara Malaysia, Bee'ah Group (Dubai), and the University of Jordan.

His publications include The Trifecta of Sustainable Entrepreneurship (IJESS, 2023), The Impact of Covid-19 and Russia-Ukraine War on Financial Asset Volatility (Cogent Economics and Finance, 2023), and The ESG Impact on Private Investment Policies (IPMA Journal, 2023).

Why You Should Attend?

- Gain practical skills and strategic insight to lead your organization's Net Zero journey in the GCC
- Build accurate Scope 1-3 GHG inventories
- Understand GCC climate policies and regulatory expectations
- Apply proven decarbonization strategies for high emitting sectors
- Create a multi year Net Zero roadmap
- Improve emissions data quality and reporting
- Engage stakeholders across the value chain
- Walk away with actionable tools and industry relevant knowledge
- Earn a professional certificate to strengthen impact and credibility

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Day 1

Session 1: Scientific Foundations of GHG & Decarbonization, and Global/GCC Institutional Pressures

- The science of GHGs: CO₂, CH₄, N₂O, F-gases, radiative forcing & global warming potential (GWP).
- Climate system basics: carbon cycle, emissions pathways & Net Zero stabilization.
- Global pressures: Paris Agreement goals, Global Stocktake, and COP28-30 outcomes.
- Regional pressures: GCC national climate policies, export competitiveness, and investor expectations.
- Why decarbonization matters: risk exposure (transition, physical, market, reputational).

Session 2: Global GHG Frameworks: ISO 14064, GHG Protocol, SBTi & IFRS S1/S2

- ISO 14064 principles & verification requirements for GCC industries.
- GHG Protocol Corporate Standard: Scope 1, 2, 3 boundaries & classification.
- SBTi Net Zero Standard: near term targets, long-term pathways & feasibility.
- IFRS S1/S2 (light touch): climate risks, opportunities & metrics.
- Selecting the right frameworks for organizational goals in GCC markets.

Session 3: GCC National Climate Commitments & Organizational Decarbonization Alignment

- UAE Net Zero 2050, Saudi Vision 2030 (SGI), Oman Vision 2040 & national decarbonization pathways.
- Sectoral implications for utilities, construction, energy, logistics & manufacturing.
- Corporate risk exposure under GCC climate policy (regulatory, market, financial).
- Converting national climate ambitions into corporate targets and KPIs.
- Establishing alignment mechanisms between national strategy & internal strategy.

Session 4: GHG Carbon Accounting: Scope 1, Scope 2 & Scope 3 Application

- Organizational vs operational boundary definitions.
- Scope 1 accounting: fuel combustion, vehicles, process & fugitive emissions.
- Scope 2 accounting: electricity, cooling, steam & market-based method relevance in GCC.
- Scope 3 overview: upstream & downstream categories and GCC hotspots.
- Data collection requirements (invoices, metering, procurement, logistics data).

Day 2

Session 1: Carbon Calculation & Emission Modelling Methods

- Activity-based calculation method (preferred for GCC heavy industries).
- Spend-based and hybrid calculation methods (when activity data is limited).
- Emission factors: selection from IPCC, DEFRA, EPA, IEA & regional utilities.
- Converting activity to CO₂e using GWP (AR5/AR6).
- Building verifiable emissions models (Scope 1-3) and avoiding double counting.

Session 2: GHG Reduction Strategies for GCC High Emitting Sectors

- Energy efficiency strategies: process optimization, motor efficiency, boiler upgrades.
- LED/HVAC upgrades & cooling plant performance improvements (critical for GCC climate).
- Renewable energy options: solar PV (rooftop/utility-scale) & district cooling sustainability.
- Circular economy strategies: waste minimization, material efficiency & recycling.
- Carbon credits & offsets: voluntary carbon markets, eligibility, and best practices.

Session 3: Developing a Decarbonization Roadmap (3-10 Years)

- Establishing baseline emissions & forecasting business-as-usual (BAU) scenarios.
- Setting decarbonization targets aligned with organizational ambitions & SBTi.
- Identifying high-impact decarbonization levers (technology, behaviour, procurement).
- Financial prioritization: cost benefit analysis, abatement curves & CAPEX planning.
- Designing a multi-year implementation roadmap with milestones.

Session 4: Stakeholder Engagement for GHG Integration

- Identifying key stakeholders across leadership, operations, procurement & finance.
- Creating internal awareness and climate literacy programs.
- Stakeholder communication, reporting lines & governance structures.
- Supplier and partner engagement strategies in GCC value chains.
- Embedding GHG responsibilities into job functions & performance metrics.

Day 3

Session 1: Scope 3 & Supply Chain Carbon Management

- Deep-diving into Scope 3 categories relevant to GCC industries (construction materials, chemicals, logistics, capex).
- Supplier emissions hot-spot mapping and prioritization.
- Designing supplier data collection templates & engagement workflows.
- Improving upstream and downstream data quality over time.
- Developing long-term supply chain decarbonization partnerships.

Session 2: Leveraging Operating Data for Effective GHG Reporting

- Identifying operational data streams that feed GHG measurement.
- Designing data governance, ownership & quality controls.
- Creating GHG dashboards, metrics, trends & insights for decision-makers.
- Integrating operational data with ESG reporting (GRI 305, IFRS climate metrics).
- Preparing audit-ready GHG documentation & version control.

Session 3: Action Planning & Organizational Integration for GHG Management

- Developing an actionable 12-36 month organizational GHG implementation plan.
- Integrating GHG into governance, risk, procurement, finance and operations.
- Embedding decarbonization into business processes and performance KPIs.
- Establishing Monitoring, Reporting & Verification (MRV) cycles.
- Ensuring long-term ownership, accountability & continuous improvement. Photo Session and Certificate Presentation.

Programme Schedule

08:30 am – 09:00 am	Registration & Coffee Break
09:00 am – 11:00 am	Course
11:00 am – 11:30 am	Networking & Coffee Break
11:30 am – 01:00 pm	Course
01:00 pm – 02:00 pm	Networking & Luncheon
02:00 pm – 03:00 pm	Course
03:00 pm – 03:30 pm	Networking Break
03:30 pm – 05:00 pm	Course

Who Should Attend?

Directors, VPs, GMs, Managers, Superintendents, Supervisors, Team Leaders, Engineers, and Project Leaders from:

- Sustainability, ESG & Corporate Responsibility – Leading Scope 3 reporting and Net Zero integration
- Operations, Engineering, Facilities & Energy – Supporting emissions data collection and tracking
- Procurement, Supply Chain & Vendor Management – Managing supplier engagement and Scope 3 hotspots
- Finance, Risk, Governance & Audit – Overseeing reporting compliance and climate risk
- Corporate Strategy, Transformation & Innovation – Aligning Scope 3 initiatives with decarbonization roadmaps

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Registration Form

Please fill & sign below form & send us on
training@indulead.com

Delegate 1
Name : _____
Job title: _____
Email: _____
Mobile: _____

Delegate 2
Name : _____
Job title: _____
Email: _____
Mobile: _____

Delegate 3
Name : _____
Job title: _____
Email: _____
Mobile: _____

Delegate 4
Name : _____
Job title: _____
Email: _____
Mobile: _____

Delegate 5
Name : _____
Job title: _____
Email: _____
Mobile: _____

Note: In case of 6 or more nominations make a duplicate of this form & fill in the details.

ORGANIZATION DETAILS:

Company : _____
Address: (to be used on invoice): _____

Telephone: _____
Country: _____

AUTHORIZED BY:

Signature: _____
Name: _____
JobTitle: _____
Email: _____
Date: _____

PAYMENT DETAILS:

[Credit Card Holder's Details - To send Payment Link](#)
First Name: _____
Last Name: _____
Email: _____
Country: _____

Event Code: IL-SETR-005

Course Fee

Registration Fees:

- Book 1 delegate Pay USD 3,295/delegate
- Book 2 or 4 delegates Pay USD 2,895/delegate
- Book 5 or more Pay USD 2,795/delegate

(All pricing excludes all taxes)

Payment Mode:

- Payments will be made by **Credit Card** or by **Bank transfer**, an Invoice will be sent soon after we receive the signed & filled registration form.
- Payment is required within **5 working days** after the receipt of the invoice.
- Payment must be received in full prior to the Course Origination.

Terms & Conditions:

- 1) Fee Includes (For Face 2 Face Training): the course fee covers all course material, lunch & refreshments. Please note that hotel accommodation is not included in the course fee.
- 2) Fee Includes (For Virtual Training): the course fee covers the live course session & the course material soft copies along with Certificates of Attendance.
- 3) Payment terms: Payments are required within 5 working days from the date of receipt of an invoice; all payments should be transferred by Credit Card/bank transfer to the Indulead International account. A receipt will be issued as payment is received.
- 4) Cancellation /Substitution Policy: Cancellation is only acceptable if submitted to us by email & will be subject to charges, cancellation received 60 days prior to the event 25% of the training fee will be charged, 30 Days prior to the event 50% of the training fee will be charged, 15 days prior to the event 75% of the training fee will be charged, 7 days prior to the event 100 % of the training fee will be charged. Substitution is the best option to avoid cancellation, as the cancellation is required in writing via email likewise Substitution is also required by email with complete details of the substituted delegates (Name, Position, Email & Mobile).
- 5) In the case of No Show, clients cannot claim any refund, & are not entitled to claim the Credit Voucher.
- 6) Cancellation by a paid client; does not subject to any cancellation charges, Indulead International will either accept the substitution or will provide a Credit Voucher of the Invoice amount which can be utilized in any of our future training, with validity up to 6 months.
- 7) Every possible effort is made to incorporate the event as it campaigns, however, due to any unforeseen circumstances Indulead International reserves the right to change the venue, location, and trainer. Also due to unforeseen circumstances, the event may be canceled or postponed, in this case, the paid delegate(s) Indulead International will process & refund the full amount, less the bank/service charges up to 5 % or less.
- 8) While all topics shown in this brochure will be covered in the course, the facilitator/instructor reserves the right to restructure and delivers them in a different order or sequence.
- 6) The client is considered aware of all the above terms and conditions, as they sign on this registration form & Indulead International will not be responsible for any expectation or monetary loss as indicated above.