



GREENRE TECHNICAL SEMINAR 02-2025

CALCULATING SCOPE 3 EMISSIONS USING THE GHG PROTOCOL FOR PROPERTY DEVELOPMENT







SCAN TO REGISTER







Wisma REHDA, Kelana Jaya (Hybrid)

*Certificate of Attendance will be given CPD : GreenRE (8), ST & MBOT (TBC) Course Fee:

RM799 (GreenREAP / REHDA) RM849 (Non-Member)

COURSE OBJECTIVE

To provide built environment professionals in Malaysia and similar economies with practical knowledge and tools to better understand carbon accounting and reduce Scope 3 emissions across the property development lifecycle, in alignment with the GHG Protocol and national climate targets.

COURSE SCHEDULE

DAY 1 - 20 MAY 2025

9.00AM - 9.30AM	Welcome & Introduction
9.30AM - 10.30AM	Module 1: Climate Change & Built Environment
	 The Science of Climate Change: IPCC, Paris Agreement, and 1.5°C target
	 Climate Risks in Southeast Asia and Malaysia (flooding, urban heat, etc. Malaysia's Climate Targets (e.g., Net Zero 2050, NDCs, MyHIJAU, TCFD)
	 Why Scope 3 Matters for Property Developers? Global Trends and Loca Context
	 Role of Scope 3 in Achieving Sustainable, Low-Carbon Property Development
10.30AM - 10.45AM	Morning Break
10.45AM - 12.15PM	Module 2: GHG Accounting Fundamentals
	Introduction to GHG accounting and the GHG Protocol
	Definitions and boundaries: Scope 1, 2, and 3 Old Parts at the Operator Notice Observed (Operator Notice Operator Notice Observed (Operator
	 GHG Protocol's Corporate Value Chain (Scope 3) Standard Scope 3 categories and which ones matter most in property development
12.15PM - 01.15PM	Lunch Break
01.15PM - 03.00PM	Module 3: Identifying Relevant Scope 3 Categories
	 Detailed walkthrough of relevant categories for Malaysian property projects:
	 Purchased goods and services: cement, steel, timber, glass Capital goods: M&E systems, elevators, heavy machinery
	 Fuel- and energy-related activities Waste handling, construction and demolition waste(with Malaysian waste streams)
	 Employee travel, commuting, subcontractor activities Downstream emissions: leased assets, operations, and tenants
	 Lifecycle thinking for emissions across pre-construction, construction, operation, and end-of-life
03.00PM - 03.15PM	Afternoon Break
03.15PM - 05.00PM	Module 4 : Data Collection & Boundary Setting
	 Setting organisational and project boundaries Mapping emissions sources across the property value chain
	Data types: primary vs. secondary, and data quality

· Malaysian and International sources for emission factors (e.g., SEDA,

Working with contractors, suppliers, and consultants to gather data

• GreenTech Malaysia, MyCREST, CIDB, ICE, IStructE, TFC)

COURSE SCHEDULE

DAY 2 - 21 MAY 2025

9.00AM - 9.30AM	Arrival & Recap
9.30AM - 10.30AM	Module 5:Calculating Scope 3 Emissions Activity-based vs. spend-based methods: when to use which Applying emission factors (localised and international) Material quantification (BQs, BIM, LCA integration) Local waste and recycling assumptions Tools relevant to Malaysian context: OneClick LCA WRAP Embodied Carbon Database Istructe, ICE,GHG Protocol Excel tools
10.30AM - 10.45AM	Morning Break
10.45AM - 12.15PM	Module 6: Case Study Workshop • Guided Calculation of Scope 3 Emissions For: - Structural materials - Building services and finishes - Waste from construction and demolition - Operations energy use projections • Interpreting results and identifying carbon hotspots • Reflection: How Scope 3 accounting informs climate-conscious design
12.15PM - 01.15PM	Lunch Break
01.15PM - 03.00PM	Module 7:Reporting & Reduction Strategies • Aligning with national frameworks: Bursa Malaysia, NSRF, TCFD, SBTi • Reporting formats (CDP, GRESB, ESG reports) • Reducing emissions through: - Low-carbon materials and suppliers - Circular construction approaches - Green procurement policies - Design for performance and operation
03.00PM - 03.15PM	Afternoon Break
03.15PM - 05.00PM	 Module 8: Future Directions & Regional Collaboration Setting organisational and project boundaries Mapping emissions sources across the property value chain Data types: primary vs. secondary, and data quality Malaysian and International sources for emission factors (e.g., SEDA, GreenTech Malaysia, MyCREST, CIDB, ICE, IStructE, TFC) Working with contractors, suppliers, and consultants to gather data

SPEAKER PROFILE

With over 25 years of experience in consulting and contracting across the design, construction, and management of major multidisciplinary infrastructure projects, Ir. Gandhi brings deep expertise and a global perspective to every initiative. As a Chartered Engineer and Fellow of the Institution of Civil Engineers, he has led the successful delivery of complex transport infrastructure and built environment assets—from concept and design through to construction, lifecycle maintenance, and rehabilitation.

In addition to his professional work, Ir. Gandhi proudly serve as Chair of ICE Malaysia, an ICE Supervising Civil Engineer, Engineering Mentor, and STEM Ambassador. He is currently pursuing a Master's in Sustainability Leadership at the University of Cambridge.



Ir. Gandhi Suppiah C.Eng FICE, CMgr, MCMI SEA Managing Director, Mindshift Consulting