



Global Green Growth Institute



Federation of Indian Chambers of Commerce & Industry

*Training cum Certification Program on*

# Low-Carbon Building Transition for Building Materials Manufacturers & Technology Providers



Supported by:



on the basis of a decision by the German Bundestag

## ASIA LOW CARBON BUILDINGS TRANSITION PROJECT

Life Cycle Assessment for Transitioning to a Low-Carbon Economy



The **Global Green Growth Institute (GGGI)** is implementing the project called “Asia Low-Carbon Building Transition (ALCBT)” in 5 Asian countries – Cambodia, India, Indonesia, Thailand and Vietnam.

This five-year project, funded by the German Federal Ministry for Economic Affairs and Climate Action (BMWK) under the International Climate Initiative (IKI), aims to facilitate a nationwide transition to Low Carbon Buildings (LCBs) targeted countries. GGGI is leading implementation of ALCBT project along with other consortium partners: ASEAN Centre for Energy (ACE), Energy Efficiency Services Ltd. (EESL), and HEAT International. One of the outcome of this project is to “Enhance capacity of current and future building industry practitioners” through comprehensive training to deliver low carbon buildings.

The **Federation of Indian Chambers of Commerce and Industry (FICCI)** is supporting GGGI in development of training delivery plan and execution of certification training programs for Material Manufacturers & Technology Provider (MMTP) in India. As part of this project, GGGI has developed training modules for key stakeholder groups comprising of Materials Manufacturers & Technology Provider.

### Overall Implementation Framework of the Project

#### Funding Partner

BMWK

IKI

#### Project Implementation Partners

GGGI

EESL

HEAT

ACE

#### Project Execution Partner

FICCI  
(for Training & Certification of targeted stakeholders)

#### Stakeholder Groups

Material manufacturers

Technology providers

## FICCI Key Activities Under the Project

Empanel Master Trainers for delivery of training

Develop Comprehensive Certification program pan India basis

Impart training as per the standard modules prepared

Train at least 600 stakeholders and minimum 18,000 person-training hours

Ensuring the gender equality under the project

## Focus Group for Training Program: Building Material Manufacturers & Technology Providers



### Raw Material Manufacturing sector

Cement, Steel, Glass, Timber/ Plywood, Bricks, Building Blocks, Aluminium panels, other building construction materials manufacturers, etc



### Technology & Equipment's Suppliers:

Building Management System (BMS) technology designer & suppliers, equipment's manufacturers like Chillers, Pumps, Cooling Tower, Air Handling Unit, Blowers, Fans, Lighting Systems, Solar PV etc



### Other Building Fittings Manufacturers:

Cables, Pipes, Sanitaryware products, Electrical Controls & Switchgears, Paints, etc.

## Training Program Modules

S.No. Modules /Sub-Modules

- 1 Introduction to ALCBT Project , Energy Scenario
- 2 Concept of Net Zero, Understanding Embodied Carbon, Low carbon buildings, Carbon Trading
- 3 Building Energy codes and Regulations, Adaptive thermal comfort design strategies, Understanding building envelope, Solar Passive Design, Tools for planning and design of Low carbon building
- 4 Understanding Operational Energy in buildings, Energy - Opportunities for optimization, Sustainable cooling for buildings
- 5 Understanding basics of Energy management, Energy Audits, Energy efficiency assessment of HVAC systems
- 6 Financing Low carbon buildings, ESCO business models, Sustainable Public Procurement
- 7 Financing Low carbon buildings, ESCO business models, Sustainable Public Procurement



Global Green Growth Institute

## About the Global Green Growth Institute (GGGI)

Based in Seoul, GGGI is a treaty-based international, inter-governmental organization- with 48 Members and over 24 countries and regional integration organization(s) in the process of accession – dedicated to supporting and promoting strong, inclusive, and sustainable economic growth in developing countries and emerging economies. With operations in over 51 countries, GGGI serves the role of an enabler and facilitator of Members' transition into a low-carbon green economy, providing policy advice and technical support in the development of green growth plans, policies and regulations, mobilization of green investments, implementation of green growth projects, and development of local capacities and knowledge sharing. Further information on GGGI's events, projects and publications can be found on [www.gggi.org](http://www.gggi.org).



Federation of Indian Chambers  
of Commerce & Industry

## About FICCI

Established in 1927, FICCI is the largest and oldest apex business organisation in India. Its history is closely interwoven with India's struggle for independence, its industrialization, and its emergence as one of the most rapidly growing global economies.

A non-government, not-for-profit organisation, FICCI is the voice of India's business and industry. From influencing policy to encouraging debate, engaging with policy makers and civil society, FICCI articulates the views and concerns of industry. It serves its members from the Indian private and public corporate sectors and multinational companies, drawing its strength from diverse regional chambers of commerce and industry across states, reaching out to over 2,50,000 companies.

The Resource Conservation & Management (RCM) division of FICCI works towards Energy Transition, Decarbonisation, Water Conservation & Neutrality, Cleaner Production, Waste Minimisation and Improving Occupational Health & Industrial Safety

## FOR FURTHER INFORMATION, KINDLY CONTACT

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