



Confederation of Indian Industry

GREEN

BUILT ENVIRONMENT

The Exemplars of India's Green Spaces

VOLUME V

Disclaimer

© All rights reserved.

Green Built Environment - Volume V is published by Indian Green Building Council (IGBC) of CII. This publication showcases some of the finest IGBC rated green and net zero building projects in India, covering various types of buildings.

While every care has been taken in compiling this publication, IGBC and the participating projects mentioned herein accept no claim for any kind of compensation, if any entry is wrong, abbreviated, omitted or inserted incorrectly either as to the wording space, data or position in the publication. All images in this book have been reproduced with the knowledge and prior consent of the project owners concerned, and no responsibility is accepted by producer, publisher, or printer for any infringement of copyright or otherwise, arising from the contents of this publication.

No part of this publication may be reproduced, stored in retrieval system, or transmitted, in any form or by any means electronic, mechanical, photocopying, recording or otherwise, without the prior written permission from IGBC.

This publication is an attempt to demonstrate how green buildings play a catalytic role in addressing ecological issues & concerns in a holistic manner and in the process encourage the readers go the green way.

Published by:

CII - Indian Green Building Council
Survey # 64, Kothaguda Post,
RR District, Hyderabad – 500 084, India
www.igbc.in

Design and Production:

INI Press
71-72, Titanium, Corporate Road, Satellite,
Ahmedabad- 380015, India
www.inidesignstudio.com

Front Cover: *CII - Sohrabji Godrej Green Business Centre (IGBC Headquarters), Hyderabad, India*

ISBN: 978-93-5196-529-9

Printed in India

For ordering more copies of this publication, kindly mail to igbc@cii.in or contact our office.



Confederation of Indian Industry



GREEN

BUILT ENVIRONMENT

The Exemplars of India's Green Spaces

VOLUME V

cii.in | igbc.in



Confederation of Indian Industry

CONTENTS

IGBC Coffee Table Book - Volume V

India's most comprehensive publication
on Sustainability in the Built Environment

FOREWORDS.....	1
THE IGBC STORY : FACILITATING THE BUILT ENVIRONMENT TO ACHIEVE INDIA'S CLIMATE GOALS.....	6
NET ZERO MOVEMENT IN INDIA - SPEARHEADED BY IGBC.....	8
GREEN BUILDING PROJECTS	12
IGBC VOLUME PROJECTS	142
CII'S GREEN OFFICES	220
INDIAN GBC MILESTONES.....	234
GOVERNMENT AND IGBC - KEY ENGAGEMENTS OVER THE PAST FEW YEARS.....	236
IGBC COFFEE TABLE BOOK - Vol I, II, III & IV - THE JOURNEY THUS FAR	238
IGBC GREEN CHAMPIONS	246
APPENDIX	248

Dear Friends,

We are very happy to bring out the 5th edition of the IGBC Coffee Table Book with an ever-inspiring collection of green projects of different scales and typology from across the country. As India eyes the ambitious goal of achieving Net Zero by year 2070 and starts taking significant strides towards reducing its carbon emissions and achieving efficiency in resource consumption, the building and construction sector will come to play a central role in facilitating this journey.

Accounting for 32 percent of the total national emissions, including both embodied and operational, the building and construction sector is readying itself to take the big leap from 'Green' to 'Net Zero'. The efforts to mainstream Net Zero ideas and technologies are ongoing and soon simplified tools will be available. This volume is the first step on this path, showcasing some of the pioneer projects that have achieved high standards on IGBC Ratings, including the Net Zero Rating System.

As it is acknowledged, green built environment contributes significantly to the UN Sustainable Development Goals, enhancing the health and wellbeing of users and the society at large, along with making a direct contribution to reducing emissions. The green building criteria are evolving to address the parameters of holistic and happy built environment. This is further being facilitated by frameworks such as the IGBC Health and Well-Being Rating System. We continue to strive to embrace the various aspects of sustainability and their role in enhancing the social and economic benefits in our methodologies.

With this note, I am happy to bring to you the exemplary case studies compiled in this volume. Each project is a reflection of our joint commitment and India's leadership role towards achieving a comprehensive climate action and a greener and healthier tomorrow. I congratulate and applaud the teamwork that went behind putting this volume and wish every reader a great learning experience, as they go over the showcased projects.



Regards,

Jayesh Hariyani

Co - Chair - IGBC Coffee Table Book Project,

Co - Chair - IGBC - Ahmedabad Chapter,

Chair - IGBC Green Campus Rating Committee,

Chair - IGBC Green Hill Habitat Rating Committee,

Co - Chair - IGBC Net Zero Building Rating Committee &

Co - Chair - IGBC Green Cities Rating Committee





Confederation of Indian Industry

The IGBC Story: *facilitating the Built Environment to achieve India's Climate Goals*

The Indian Green Building Council (IGBC) was formed in 2001 by the apex industry body, the Confederation of Indian Industry (CII). IGBC is making all efforts to imbibe India's 7,000-year-old heritage along with modern innovation and technology, to facilitate greener and healthier spaces. **The 21st Century Modern Green Building Movement in India** was triggered off when CII Sohrabji Godrej Green Business Centre building in Hyderabad (IGBC Headquarters) was certified as the first Platinum rated green building in India and the World's Greenest Building in 2003. This iconic structure firmly established the fact that green buildings are high performing, ecologically superior and economically viable.

The **CII Sohrabji Godrej Green Business Centre (SGGBC)** was inaugurated by Hon'ble President, Late Dr A. P. J. Abdul Kalam on 14 July 2004. Keeping in line with the times, the IGBC Headquarters at Hyderabad became a Net Zero energy consumer and achieved Platinum certification under IGBC Net Zero Energy Building Rating System in 2019.

Today, with more than 8,500 Green Building projects adopting IGBC Ratings, equivalent to a built-up area of over 9 billion sq ft, **IGBC has emerged as the country's premier body for certification of green buildings and built environment and related services** such as capacity building, accreditation of professionals and students, membership, etc.

IGBC Green Building rating systems cover sustainable design,

construction, operation and maintenance. All IGBC Ratings and the certification process are well structured, robust, easily implementable and thoroughly monitored. Further, the green building rating systems of IGBC have seamlessly aligned with National codes and standards like National Building Code (NBC), BEE's Energy Conservation Building Code (ECBC), MoEF's Environmental Impact Assessment (EIA) guidelines, etc. IGBC Ratings also take into account local geo-climatic conditions, bye-laws and are aligned with specific government initiatives such as Smart cities, Housing for all, etc.

The recent pandemic has increased the focus on making workplaces and residences safer. IGBC has developed recommendations for healthier, safer and more comfortable spaces for occupants and **released a guideline in 2020 titled, 'Combating COVID-19 in Green Buildings'**.

Highly scientific tools like energy simulation and lighting analysis were introduced in India by IGBC. Many innovative and sustainable building materials, products and technologies have been introduced to the building sector by IGBC, since 2001. In this direction the '**GreenPro Rating System**' for certification of green building products was launched. Thus far, more than 4,500 building products have been certified based on a life cycle approach. GreenPro is recognised by Global Ecolabelling Network (GEN), which is a world-wide association of ecolabelling organisations.



IGBC is working very closely with the Central and State Governments across the country to promote the green building movement. **IGBC has green-rated and closely worked with more than 900 projects from Government bodies, PSUs and PPPs** like Smart City, Affordable Housing Projects under PMAY, State Pollution Control Board, RBI, ISRO, Coal India, NBCC, National High Speed Rail Corporation Limited, Metro Railway authorities, Indian Railways, to name a few. Ministry of Environment, Forest and Climate Change (MoEFCC) offers fast track environmental clearance for green building projects which are rated by IGBC. **Many states have provided incentives to IGBC green-rated buildings in India.** State Government agencies in Rajasthan, Punjab, West Bengal, Uttar Pradesh, Andhra Pradesh, Himachal Pradesh, Jharkhand, Maharashtra, Tamil Nadu, Gujarat, Kerala and Haryana have already incentivized IGBC-rated Green buildings.

IGBC supports India's Nationally Determined Contributions committed to achieve the United Nations Sustainable Development Goals (SDGs). Out of 17 SDGs with 169 targets, 14 SDGs with 50 targets are linked directly or indirectly through IGBC Ratings. **IGBC is also the founding member of WorldGBC, since 2004.** The WorldGBC board plays a key role in aligning green buildings with Sustainable Development Goals (SDGs) of the UN. Around 70 country councils are members of the WorldGBC and IGBC represents India in WorldGBC forums. IGBC handholds other emerging GBCs across the world by sharing its resources, technical expertise and market experience.

How people 'function' and 'feel' within personal and social circles strongly reflects the kind of environment they live in. The occupants perceive the built environment through their five senses - Smell, Taste, Sight, Touch and Sound. The five elements of nature - Earth, Water, Fire, Air and Ether, which make up the built environment, affect physical, emotional & intellectual and social well-being of the occupants through these five senses. Health and physical well-being of the occupants can be enhanced by improving the features of the built environment. **IGBC's approach addresses both - elements of nature and the human senses, thereby resulting in resource-efficient and healthier projects.**

While many might look at a building and see only an inanimate structure, green and net zero buildings consider the physicality and the process by which they are created – an opportunity to not only save energy, water and carbon emissions but to educate, create jobs, strengthen communities, improve health and wellbeing, and much, much more.

What Began as one building (IGBC HQ) in 2003 has Become a movement today and this success Belongs to all stakeholders who are proudly involved in building a greener India. The biggest success stories of the GREEN and NET ZERO movement are the growing numbers of environmentally responsible stakeholders who join the green building movement every year to make Bharat – the *Jagat Guru* in Green Buildings. Jai Hind!



NET ZERO MOVEMENT IN INDIA

- SPEARHEADED BY IGBC

INTRODUCTION TO NET ZERO

India is witnessing a tremendous growth in the construction and infrastructure development sector. Over the years, this sector has been highly demanding of resources such as energy and water and has also been a significant contributor to GHG emissions and global warming. To address this alarming situation, the buildings are required to be designed, constructed and operated in such a way that they are self-sufficient and minimally dependent on external sources in terms of resource consumption. In other terms, such buildings can also be referred to as '**Net Zero**' Buildings.

IGBC AND NET ZERO – THE WAY TO THE FUTURE

Against this background, IGBC has developed Rating Systems that facilitate the adoption of Net Zero concepts for Energy, Water and Waste consumption in the built environment. IGBC Rating Systems define **Net Zero Energy Buildings** as those that are designed to implement energy-efficient concepts and adopt renewable energy sources to meet the energy requirements of the building. **Net Zero Water Buildings** are the ones that consume minimum raw water by implementing water efficient measures and harness alternate water to meet the balance water requirements, thus achieving water neutrality. A **Net Zero Waste** for Buildings & Built Environment is one which eliminates the diversion of waste being sent to landfills using a multipronged approach.

Stakeholders in IGBC believe in the adage - 'Practice before you Preach'. IGBC is one of the few councils in the world to operate out of a green building. The **CII Sohrabji Godrej Green Business Centre** in Hyderabad, headquarters of IGBC is an iconic structure that firmly establishes the fact that green buildings are futuristic, ecologically superior and economically viable. The centre is the 1st Platinum - rated Green Building in the country and has world-wide recognition. It also achieved 'Net Zero Energy Platinum Building' certification on 31 August, 2019.

LAUNCH OF IGBC'S MISSION ON NET ZERO

IGBC, on the occasion of Earth Day last year (22 April 2021), had launched the '**Mission on Net Zero**' with a vision to 'facilitate India in becoming one of the foremost countries in transforming to **Net Zero by 2050**'. This would also go a long way towards India fulfilling its Nationally Determined Contributions (NDCs) submitted to the secretariat of the United Nations Framework Convention on Climate Change (UNFCCC).

This IGBC Net Zero campaign which is a National Initiative would result in multi-fold benefits such as:

- Reduction of CO2 emissions
- Deployment of multiple technologies
- Adoption of Cleaner fuels
- Cleaner Air and Health Benefits
- New employment opportunities

The campaign received commitments from **350+** leading organisations from the Indian building sector who pledged to work in alignment with the IGBC Mission on Net Zero Goals.

IGBC would handhold and support these organisations throughout their process of achieving the Net Zero status in terms of **capacity building, guidance for development, implementation of intermediary targets, sustaining Net Zero on a continuous basis**, sharing the best industrial practices and technologies, etc.

IGBC's Mission on Net Zero is aligned with **WorldGBC's Whole Life Carbon Vision** which states:

- By 2030, new buildings, infrastructure and renovations must have at least 40% less embodied carbon with significant upfront carbon reduction and all new buildings must be net zero operational carbon
- By 2050, new buildings and infrastructure must have 100% net zero embodied carbon, and all buildings including existing buildings, must be net zero operational carbon.

IGBC MISSION ON NET ZERO



We hereby pledge to work towards achieving IGBC 'Net Zero' vision by 2050 and achieve India's commitment on Climate Change

DEVELOP ROAD MAP WITHIN MY ORGANISATION	DESIGN AND CONSTRUCT	TRANSFORM	MONITOR & VERIFY	COLLABORATE WITH GOVERNMENT OF INDIA
Towards achieving Net Zero: Set intermediary targets for every five years starting from 2025	All new buildings & built environment so as to become Net Zero by 2030	All buildings, new and existing, to become Net Zero by 2050	Report achievements and inspire other stakeholders to go Net Zero	Facilitate Advocacy, Policies and Investments in advancing Net Zero as a National movement

350+ organisations in the Indian Building Sector have taken the pledge

IGBC NET ZERO RATINGS

The **IGBC Net Zero Energy Buildings Rating** was launched in the year 2018. This rating system is a tool which enables the project team to apply energy efficiency concepts and adopt appropriate renewable sources by design to construct a Net Zero Energy building. In case of an existing building, the tool enables implementation of energy efficient measures to reduce overall energy demand and meet the rest of the energy requirements through renewable energy sources.

The **IGBC Net Zero Water Rating** was launched in the year 2020 with a holistic approach to make water efficient buildings and adopt appropriate measures for harnessing alternate water to achieve Net Zero Water performance. In case of an existing building, the tool enables implementation of water efficient measures to reduce overall water consumption and encourages projects to meet rest of the water requirements through alternate water. This rating also complements the Government of India's National Water Mission.

The **IGBC Net Zero Waste Rating** was launched in the year 2021. The rating can be applied to both new & existing forms of built environment and across all building typologies. The holistic approach to Net Zero Waste Rating System involves application of 3R principles (Reduce, Recycle and Reuse) in the design, construction and operation of buildings & built environment.

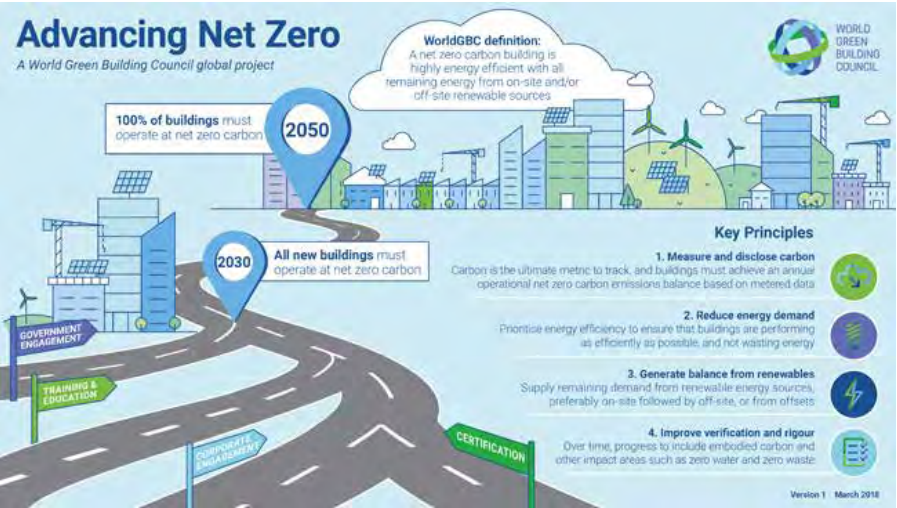
To initiate the adoption of Net Zero Carbon concepts by organisations at their project level, the **IGBC Guidance Framework for Net Zero Carbon Buildings** has been released in the year 2021. IGBC believes that the guidance framework would support the organisations to initiate GHG accounting and categorise the project emissions under **Scope 1, 2 & 3**.

Based on the inventorisation and emission intensity, appropriate emission reduction measures and abatement strategies can be developed by the organisations to ensure the offset of carbon emissions.

SUM UP

The buildings and construction sector consume **36%** of energy produced and are responsible for **39%** of the global carbon emissions (Source: ANZ Report by WorldGBC). This means, the sector is a critical contributor to climate change and has a significant role in the global climate action to limit the rise in global warming temperatures to 1.5°C as per the Paris Agreement.

Today, this sector is one of the fastest growing in the world and has a profound influence on the aspects of human life, civilization and also brings together people in their social, cultural and economic endeavours. Hence, it is imperative to go **GREEN and NET ZERO** now to minimise the impact of this sector on our environment.



IGBC RATINGS FOR NET ZERO ENERGY BUILDINGS, NET ZERO WATER, NET ZERO WASTE AND GUIDANCE FRAMEWORK FOR NET ZERO CARBON BUILDINGS





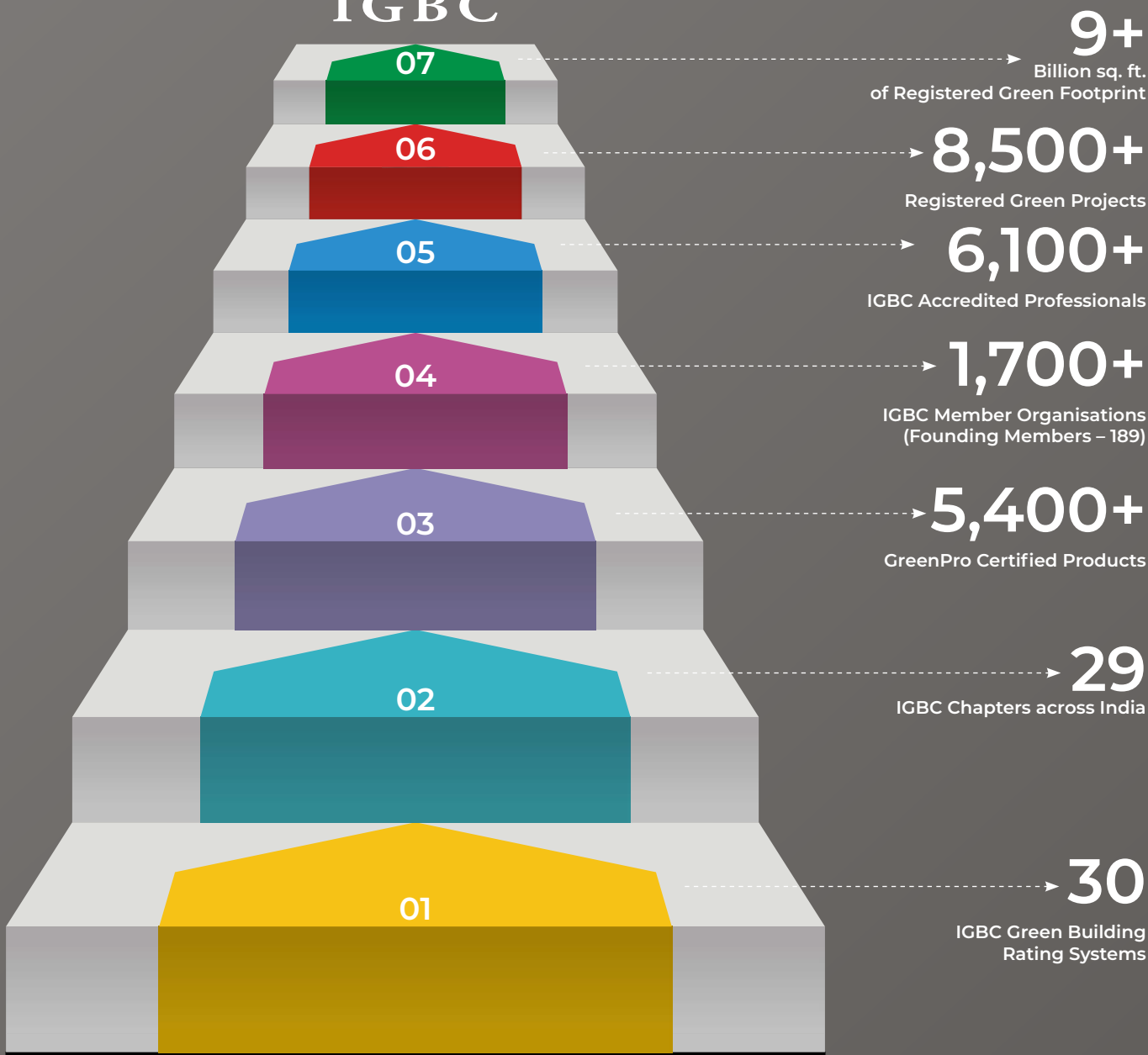

GREEN BUILT ENVIRONMENT IN INDIA

THE GROWING NUMBERS

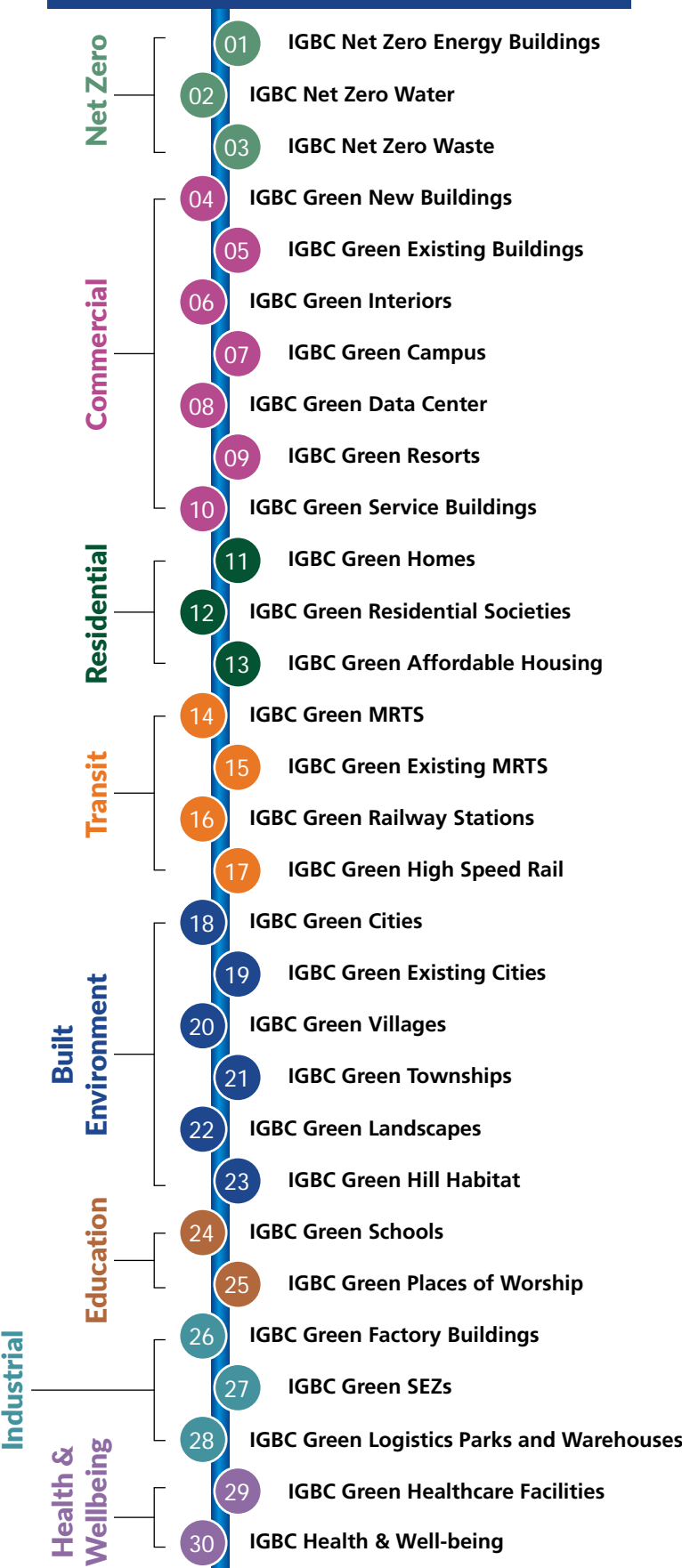
(as on 30 September 2022)



IGBC



IGBC
GREEN & NET ZERO
BUILDING RATINGS





CII-GBC receives the 2009 International Aspen Institute Energy & Environment Awards, NGO category



Rajiv Gandhi International Airport, Hyderabad: 1st Green Airport facilitated by IGBC



IGBC Green Homes Rating System launched - India's first rating program for residential projects



Police Bhawan at Gulbarga, Karnataka: India's 1st Government Green Building



Launch of 1st IGBC Chapter in Bengaluru

2009

2008

2006

2010

India crosses **One Billion SF** of green building footprint



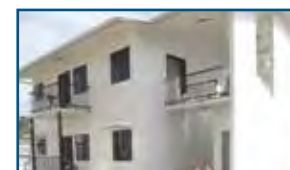
Avani Residence, Hyderabad, the 1st individual home to be IGBC certified



Launch of IGBC Green Townships Rating System



Paint our Earth Green - Drawing Competition for School Children



Karnataka State Police Housing project: 1st pre-fabricated building to be IGBC certified



Launch of IGBC Green Landscape Rating System

India's first **1,000 Green Building** Projects registered with IGBC

1,000 qualified IGBC Accredited Professionals

2011

2012

2013



1st edition of Harit Prem Bharat Mahotsav held



IGBC HQ at Hyderabad (CII Green Business Centre) completes **15 years** and becomes a Net Zero Energy Platinum building



CREDAI - IGBC MOU extended



MoU with APCRDA, Government of Andhra Pradesh



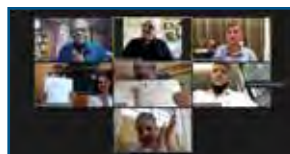
IGBC launches **Net Zero Energy Buildings Rating**



MoU signed between **BKMEA, Bangladesh** and IGBC

2019

2020



MoU signed between **NAREDCO** and IGBC.



Narendra Modi Stadium, Motera, Gujarat – **the World's Largest Green Cricket Stadium** rated by IGBC



MoU extended between **Indian Railways** and CII



Launch of IGBC's **Mission on Net Zero**



IGBC launches **Green High Speed Rail Rating**

2021



Late Dr APJ Abdul Kalam, addresses major stakeholders of Indian construction industry during the Green Building Congress in New Delhi

IGBC hosts the WorldGBC members' meet, coinciding with Green Building Congress at Hyderabad in 2004. IGBC becomes Founding Member of WGBC.



Formal inauguration of GBC building by Late Dr. APJ Abdul Kalam, the then Hon'ble President of India



CII Sohrabji Godrej Green Business Centre (GBC)- India's 1st Platinum rated green building established in Hyderabad

2001

IGBC - founded by CII

1st IGBC Advisory Board meeting on 31 August, 2001



2005

2004

2003

2,000 Green Building Projects registered with IGBC

500 Green buildings certified by IGBC

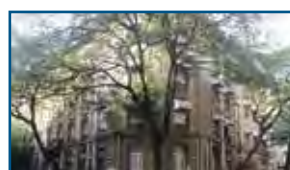
IGBC launches Green New Buildings Rating System and Green Schools Rating System



Thyagaraj Sports Complex, New Delhi: 1st Sports Stadium certified by IGBC



Launch of 1st Volume of IGBC Coffee Table Book



1st building certified under IGBC Green Existing Buildings Rating: TATA Bombay House



1st IGBC Students' chapter launched in Bengaluru



MoUs inked with Oakridge Research National Laboratory, University of Salford, Indian Plumbing Association (IPA) & International Association of Plumbing and Mechanical Officials (IAPMO)

2014



World GBC Members' Day held at Jaipur during 15th Green Building Congress



No. of IGBC qualified Accredited Professional crosses 2,000



Launch of 1st IGBC Green League (IGL 2016)



Hon. P.M. Shri Narendra Modi flagging off at IGBC Platinum rated Badarpur-Faridabad Metro Station



Launch of the IGBC Health and Well-being Rating System



Launch of IGBC's 1st Chapter in North-East at Guwahati



IGBC's MoU with NBCC (India) Limited



IGBC participates in WorldGBC's 1st Buildings Day at COP21 in Paris



10 Green Building Training Programmes conducted in Tier 2 & 3 cities in association with MNRE

2015

2017

2016



Launch of IGBC's 29th Chapter in Patna, Bihar



MoU with AICTE to promote Green Education



More than 5,400 ecolabelled products under GreenPro

India surpasses 9 billion sq. ft. of green building footprint



Indian GBC Milestones

Spearheading the Green Building Movement since 2001

GOVERNMENT AND CII - IGBC

CII - IGBC is working very closely with the Central and State Governments across the country to promote the green building movement. Numerous Government projects have been certified by IGBC. Many Government agencies have also notified incentives for IGBC-rated green building projects. All this has led to mainstreaming green developments in the country.



(Top Image) On 24 Feb 2021, during the inauguration of Narendra Modi Stadium, Shri Ram Nath Kovind, the Hon'ble President of India, mentioned that with the Gold certification from IGBC, the world's largest cricket stadium stands as a great example of eco-friendly development and makes its mark on the world stage by showcasing the ambitions of new-age India.
(Below Image) IGBC Gold Plaque was handed over to Shri Parimal Nathwani, Hon'ble MP, Rajya Sabha and Mr. Jay Shah, Secretary, BCCI, on 20 February, 2020 for Green Narendra Modi Stadium in Motera, Gujarat.



Kevadiya Railway Station is the first newly constructed railway station to be provisionally awarded with Platinum certification as per IGBC's Green Railway Stations Rating. Vadodara division under Western Railway zone received the IGBC Certificate from Shri Acharya Devvrat, Hon'ble Governor of Gujarat and Shri Vijay Rupani, Hon'ble Chief Minister of Gujarat, on 17 January, 2021.



"It is heartening to note that all stations have achieved Platinum rating which is the highest certification level given by the Indian Green Building Council." Hon'ble Prime Minister of India, Shri Narendra Modi, highlighted this during the inauguration of Kochi Metro (16 IGBC Platinum-rated Green Metro stations) on 17 June, 2017.



Inauguration of AURIC Hall by Shri Narendra Modi, Hon'ble Prime Minister of India, on 07 September 2019. AURIC Hall is an IGBC Gold-rated green new building.



Shri Narendra Modi, Hon'ble Prime Minister of India, inaugurated a section of Kanpur Metro Rail project on 28 December 2021. All the stations in this section are IGBC Platinum - rated.



Shri Narendra Modi, Hon'ble Prime Minister of India, inaugurated DMRC's Phase III Faridabad Metro Corridor (Badarpur to Escorts Mujesar) on 06 Sep, 2015. All the stations in this line are IGBC Platinum-rated. Also present are then Hon'ble Union Minister, Shri Venkaiah Naidu and Hon'ble Chief Minister of Haryana, Shri Manohar Lal Khattar.



In the presence of Shri Piyush Goyal, Hon'ble Union Minister for Railways, the Secunderabad Railway Division under South Central Railway zone received the IGBC Platinum plaque for Green Secunderabad Railway Station on 15 June, 2018.



Shri Hardeep Singh Puri, Hon'ble Union Minister of State (Independent Charge) for Housing and Urban Affairs, released the IGBC Net Zero Energy Buildings Rating System at the inaugural session of the 16th Green Building Congress on 1 November, 2018.

KEY ENGAGEMENTS OVER THE PAST FEW YEARS



Shri Eknath Shinde, Hon'ble Chief Minister of Maharashtra, unveiled the IGBC Gold plaque of Bhakta Niwas - Residential Complex of Shri Vitthal Rukmini Mandir Samiti on 10th July 2022 in Pandharpur.



In the presence of Shri Pinarayi Vijayan, Hon'ble Chief Minister of Kerala, LuLu Mall, Thiruvananthapuram received the IGBC Gold provisional certificate on 16 December 2021.



Shri Debashis Sen, IAS (Retd), MD, WBHIDCO Ltd. presents the IGBC Green City Platinum Plaque and Certificate for New Town to Shri Firhad Hakim, Chairman, WBHIDCO Ltd, Mayor of Kolkata and Hon'ble Minister of Urban Development and Municipal Affairs and Housing, Government of West Bengal in September 2020.



The IGBC Green Champion Award was presented to Shri Vijay Rupani, Hon'ble Chief Minister of Gujarat, on 1 January 2021 in Rajkot.



In the presence of Shri K Chandra Shekara Rao, Hon'ble Chief Minister of Telangana, Integrated Command & Control Centre of Telangana Police was awarded the IGBC Gold provisional certification on 4 August 2022.



IGBC's dossier on 'India's Leadership in Green Cities' was released by Shri B. S. Yediyurappa, Hon'ble Chief Minister of Karnataka, at the Inaugural of Municipalika on 12 February 2020.



Shri K. T. Rama Rao, Hon'ble Minister for IT, Industries, MA & UD, Govt. of Telangana, launched the World's first Green Rating for Mass Rapid Transit System, developed by IGBC, on 4 September 2014, at Green Building Congress, Hyderabad.



Madhav Netralaya at Nagpur was awarded the IGBC Platinum certification under Green Healthcare Facilities Rating. Shri Devendra Fadnavis, the then Hon'ble Chief Minister of Maharashtra, presented the IGBC plaque on 18 March, 2018.



On 24 May 2022 at the World Economic Forum in Davos, Switzerland, an MoU was exchanged between Mr Ashish Kumar Singh, Addl. Chief Secretary to Hon'ble Chief Minister, Govt of Maharashtra & Ms Cristina Gamboa, CEO, WorldGBC, in the august presence of Shri Aditya Thackeray, Hon'ble Minister for Environment and Tourism, Government of Maharashtra. The MoU was signed with the objective to frame Maharashtra's roadmap to become Net Zero in terms of carbon emissions. WorldGBC would be the knowledge partner and IGBC would be the implementation partner for the execution of this MoU.

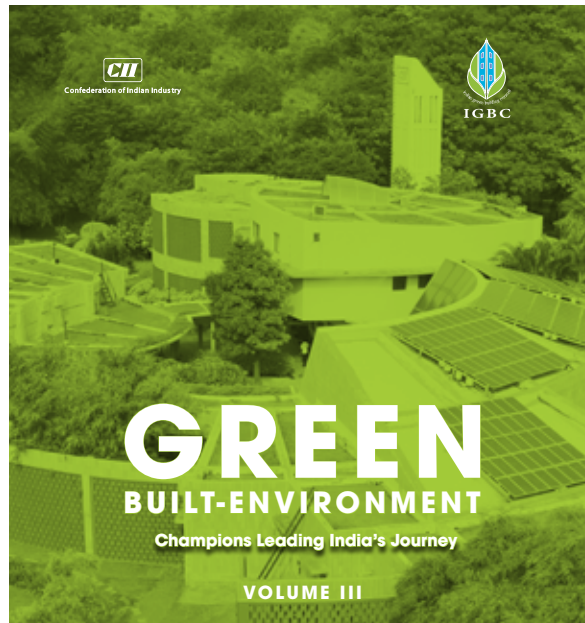
IGBC COFFEE TABLE BOOK - Vol I, II, III & IV

THE JOURNEY THUS FAR

IGBC Coffee Table Book (CTB) is a limited edition biennial publication. The Volume I of the book was launched in 2014, followed by the Volumes II, III & IV in 2016, 2018 and 2020 respectively. Each of these books had a collection of about 100 unique IGBC-rated green projects which had inspired numerous stakeholders to raise the bar and showcased India's commitment towards sustainability. The Coffee Table Book has turned out to be one of IGBCs' most successful and prestigious publications till date. One may find the book finding its pride of place in the facilities and offices of many government departments, nodal agencies, architects, developers, corporates, institutes, etc.



Green Buildings of India
Volume I



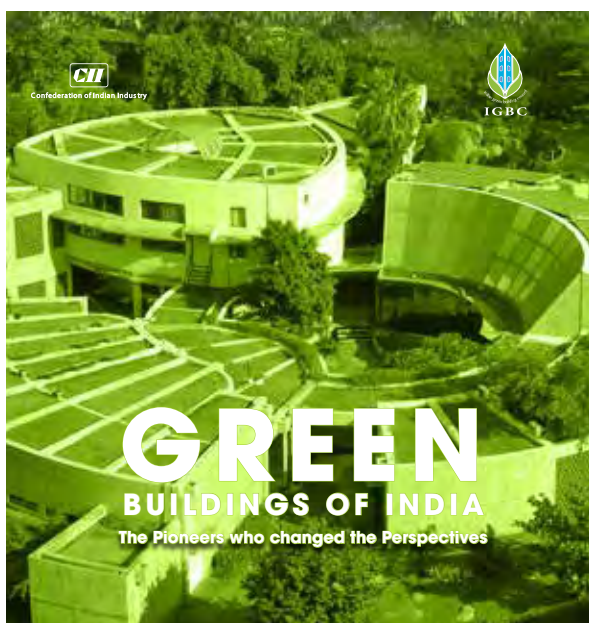
Green Built-Environment
Volume III



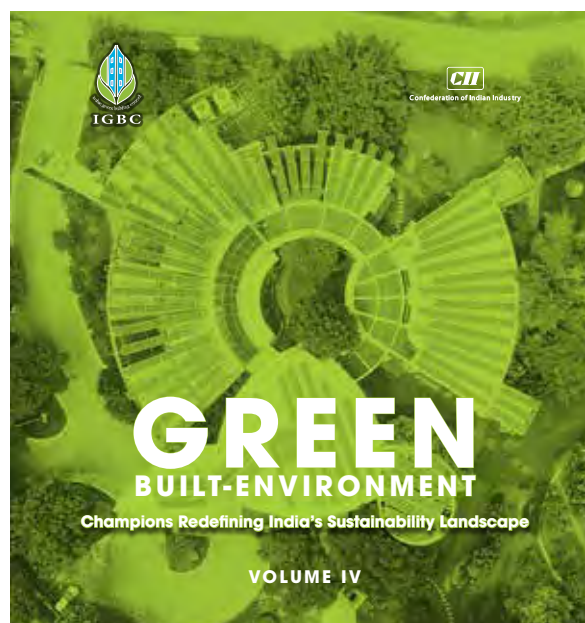
Launch of CTB-I at Green Building Congress 2014, Hyderabad



Launch of CTB-II at Green Building Congress 2016, Mumbai



Green Buildings of India
Volume II



Green Built-Environment
Volume IV



Launch of CTB-III at Green Building Congress 2018, Hyderabad



Launch of CTB-IV at Green Building Congress 2020, (virtual event)

IGBC COFFEE TABLE BOOK - Vol I, II & III

Few glimpses of this publication being presented to key dignitaries over the years



To Smt. Anandiben Patel, Hon'ble CM, Gujarat and Shri Venkaiah Naidu, Hon'ble Union Minister



To Mr. Depinder Singh Dhesi, IAS, Chief Secretary, Govt. of Haryana



To Mr. C. V. Som, IAS, Principal Secretary, Urban Housing Development Department, Govt of Gujarat



To Mr. Kevin Hydes, former Chairman, WorldGBC



To Mr. Manoj Shashidhar, IPS, Commissioner of Police, Vadodra



To Mr. Tapan Mishra, Director, Space Application Center, ISRO, Ahmedabad



To Mr. Rajesh Jogpal, Municipal Commissioner, Panchkula Municipal Corporation



To Mr. S. M. Formanul Islam, CEO & Executive Director, Bangladesh Infrastructure Finance Fund Limited



To Dr. Adarsh Swaika, Deputy High Commissioner, High Commission of India, Dhaka



To Shri N. Chandrababu Naidu, Hon'ble CM, Andhra Pradesh



To Shri Prakash Javadekar, Hon'ble Minister for Environment, Forest and Climate Change



To Mr. Rajendra Jagtap, CEO – Pune Smart City Development Corporation Ltd



To Shri Vijay Sardesai, Hon'ble Minister for Town & Country Planning, Govt of Goa



To Mr. Shailendra Kumar Joshi, IAS, Chief Secretary, Govt of Telangana



To Mr. Abhay Sinha, DG, CPWD

IGBC COFFEE TABLE BOOK - Vol I, II & III

Few glimpses of this publication being presented to key dignitaries over the years



To Mr. Pawan Arora, Housing Commissioner, Rajasthan Housing Board, Govt. of Rajasthan



To Mr. Rajeeva Swarup, Chief Secretary, Govt. of Rajasthan



To Mr. S. Iswaran, Hon'ble Minister for Communications & Information, Parliament of Singapore



To Mr. Sanjay Chotalia, Chief Engineer (Special Projects), City and Industrial Corporation of Maharashtra Ltd. (CIDCO)



To Mr. Sanjay Waghmare, Director (Systems), Metro PIU, MMRDA & Mr. PRK Murthy, Director (Projects), Metro PIU, MMRDA



To Mr. Tapan Ray, IAS (Retd.), MD & Group CEO, GIFT City, Gujarat



To Mr. Todd Jarvis, Member, WorldGBC Corporate Advisory Board & Global Marketing Director, Shaw Contract



To Ms. Saumya Agarwal, IAS, Vice-Chairperson, Kanpur Development Authority



To Ms. Srijana Gummalla, IAS, Commissioner, Greater Visakhapatnam Municipal Corporation



To Ms. Usha Batra, Special Director General (Western Region), CPWD



To Mr. Aditya Prasad Padhi, Chief Secretary, Govt. of Odisha



To Mr. Dilip Gawde, Additional Municipal Commissioner, Pimpri Chinchwad Municipal Corporation



To Shri Parimal Nathwani, Hon'ble MP, Rajya Sabha & Immediate Past President, Gujarat Cricket Association and Mr. Jay Shah, Secretary, BCCI



To Shri Rajen Gohain, Hon'ble Minister of State for Railways



To Shri Vijay Rupani, Hon'ble Chief Minister of Gujarat

This list is not exhaustive

IGBC COFFEE TABLE BOOK - Vol IV

Few glimpses of this publication being presented to key dignitaries over the past 2 years



Dr. Atul Aditya Pandey, Chairman, State Environment MPACT Assessment Authority, Govt. of Bihar



Dr. Janiah, Vice Chairman and MD, TSREDCO



Dr. Sharad Kumar, Airport Director, Airports Authority of India, Chennai



Dr. Uday Kant Misra, Vice Chairman of Bihar Disaster Management Authority and Director, Bihar Building Construction Corporation Ltd.



H. E. Freddy Svane, Ambassador of the Royal Danish Embassy to India



Lt. Col. Ravindra Singh, CEO, Electronic City, Bengaluru



Md. Shamshad, CEO, Patna Smart City Ltd.



Mr. A. Chandra Sekhar Reddy, CEO, APSECM & MD, APSEEDCO



Mr. Abhay Kumar Gupta, Divisional Railway Manager, Secunderabad Division



Mr. Amit Arora, IAS, Commissioner, Rajkot Municipal Corporation



Mr. Anil Dhaka, IRS, MD, Rajasthan Renewable Energy Corporation Limited



Mr. Animesh Kumar Parashar, IAS, Commissioner, Patna Municipal Corporation



Mr. Anurag Sinha, Group General Manager, Head - Infrastructure, Engineers India Ltd.



Mr. Arvind Kumar, IAS, Special Chief Secretary, MA&UD, Govt. of Telangana



Mr. B. H. Talati, IAS, Joint Secretary, Climate Change Department, Govt. of Gujarat

IGBC COFFEE TABLE BOOK - Vol IV

Few glimpses of this publication being presented to key dignitaries over the past 2 years



Mr. D. Muralidhar Reddy, IAS, Vice Chairman & MD, Andhra Pradesh Medical Services & Infrastructure Development Corporation (APMSIDC)



Mr. Gauri Shankar Nagabhushanam, CEO, India Business Parks along with Dr. C. Velan, City Head, Capitaland



Mr. Gungan Ilango, President, CREDAI Coimbatore



Mr. Jackbastian K. Nazareth, CEO, Adani Realty



Mr. Kishan Rao, IAS, Vice Chairman, Yadagirigutta Temple Development Authority



Mr. Kuldip Narayan, IAS, Joint Secretary & Mission Director (Housing for All), MoHUA



Mr. Lakshminarayanan S., Vice President – Engineering & Maintenance, Bangalore International Airport Limited



Prof. Mohammed Arif, Dean, School of Arch, Tech and Eng, Advanced Engineering Centre, University of Brighton



Mr. M.T. Krishna Babu, IAS, Principal Secretary to Government (FAC), Transport Roads & Buildings and Healthcare, Govt. of Andhra Pradesh



Mr. Madhusudhan, CEO, NIMZ Zaheerabad



Mr. Mahesh Patil, Chairman, Goa State Pollution Control Board



Mr. MLNB Prasad, Executive Vice President & Chief Development Officer (Airports), GMR Group



Mr. N. P. Sharma, C.G.M, Bangalore Metro Rail Corporation Limited



Mr. Pradeep Panicker, CEO, GMR Hyderabad International Airport



Mr. Praveen Chaudhary, IAS, Dy Municipal Commissioner & CEO, Smart City, Ahmedabad

This list is not exhaustive



The 'IGBC Green Champion Award' is the highest honour bestowed by IGBC upon the leaders of the green building movement in India. The IGBC-rated green projects belonging to many of these organisations have participated in the current or earlier volumes of the IGBC Coffee Table Book series.

Developer leading the Green Building Movement in India



Corporate leading the Green Building Movement in India





Government Organisation championing the cause of green in India



Architect with largest green building design footprint in India



Organisation / Institute encouraging IGBC Accredited Professionals



Pioneering Institution in sensitising the masses by going green



MRP ₹ 2,000
ISBN: 978-93-5196-529-9



Published by



Confederation of Indian Industry



IGBC

CII - Indian Green Building Council
Survey # 64, Kothaguda Post, Hyderabad – 500 084, India
cii.in | igbc.in | igbc@cii.in