## Joint Initiative of CII- IGBC and Enterprise Singapore (ESG)







# Technologies for Buildings and Built Environment to achieve Net Zero

Facilitating Transfer of Technologies and Services from Singapore to India



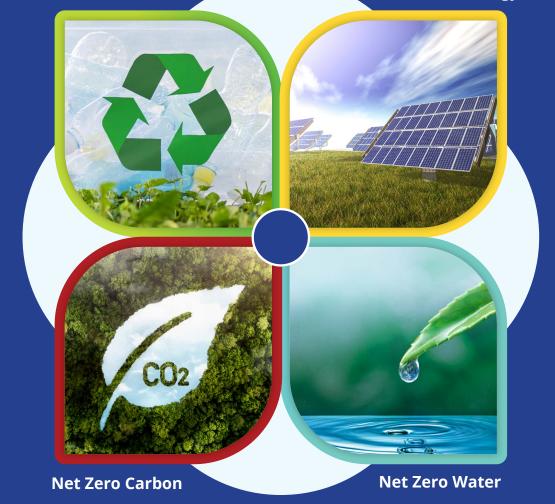
CII - IGBC and Enterprise Singapore (EnterpriseSG) launched a joint initiative in 2022 to collaborate and support the built environment and construction sector in achieving Net Zero (Energy, Water, Waste and Carbon) Status. The joint initiative would facilitate projects to explore innovative technologies & business solutions to design new projects and convert existing buildings to achieve Net Zero status.

A series of workshops, B2B and B2C meetings would be organised throughout the year. Indian projects with Net Zero ambitions would be introduced to curated solutions from Singapore that are new, innovative, and cost-effective in achieving Net Zero targets.

The initiative would offer benefits to Building Owner, Sustainability Professionals, Facility Heads of Corporates, Architects/Designers, Builders/ Real Estate Developers, Leading Engineering firms and Green Building Consulting Organizations to explore Technological & Business solution for their projects to achieve.

Zero Waste to Landfill

Net Zer<u>o Energy</u>



The Net Zero programme co-organized by CII-IGBC and EnterpriseSG can help raise awareness on emerging, new/innovative technological solutions that would enable projects to achieve Net Zero targets.

## Key Technologies and Business Solutions



## The initiative has been joined by 12 Singaporean companies that offer robust technological solutions capable of supporting projects in achieving **Net Zero Status**

EnvironSens is a spin-off from National

University of Singapore in 2018 and the team

has worked closely with PUB, Singapore's

National Water Agency over the last 7 years

for I2BioS development and are supported by

EnvironSens Pte Ltd

Enterprise Singapore.



### **EcoSense Enviro Solutions**

ECOSENSE ENVIRO SOLUTIONS is committed to the development of sustainable societies by enabling organizations & communities in achieving their goals towards Net Zero via our solutions on carbon measurement and mitigation strategies, energy management and integrated waste management. We bring in a holistic perspective combined with digital tools and technologies.





#### **Kev Services**

- Feasibility for Net Zero
- IoT, Energy Management
- Integrated Waste Management

#### Mr Pushkar Pradhan

CEO pushkar.pradhan@ecosense-enviro.com

## Krosslinker Pte Ltd

KrossLinker is a venture capital backed, Aerogel Solutions start-up based in Singapore founded by a team of scientists. Their mission is to innovate and develop new, high-performance, energy-conserving Aerogel products. The aim is to make this premium material affordable and accessible to diverse mainstream applications.



#### **Key Services**

- Low carbon emitting materials
- (Aerogel-based insulating materials)
- Innovative solutions of enhancing Daylighting

#### 05 Integratech Pte Ltd

Integratech Pte Ltd Established in 2003 with Headquarters in Singapore, specializes in delivering innovative customized and Industry standard web based enterprise solutions using the latest best proven practices.



#### **Key Services**

- ▲ Real time energy monitoring
- Optimize Building Performance
- Project Site Selection (along with Geo-tracking)
- A Building automation

# **Integra**Tech

Dr Mahesh Sachithanadam

mahesh@krosslinker.com

Co-founder & Director



Mr. V.R.Harikrishnan Director hari@integratech.com.sg





Dr Shailesh Kharkwal

CEO

#### **Kev Services**

Scalable Waste waste Tereatment Solutions (specific to the proejct)

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- Real time water quality monitoring products
- shailesh@environsens.com

## Genplus

Genplus is a Singapore-based company incorporated in 2013. The company designs and manufactures proprietary battery solutions and energy storage systems (ESS), offering customizable turnkey ESS which are ready for connection to medium or high voltage grids





**Key Services** 

KROSSLINKER

- Energy storage Solutions
  - Integrated Energy Storage with renewable technologies

Mr. Ming Chiat Lim CEO limmc@genplus.sg

#### h **Oryana Venture Pvt Ltd**

Oryana is an Investment & Operating Company in the Environment & Clean Technology Segment. Oryana acquired Jaldhara Technologies (GreyWater) in 2017. They provide turnkey solutions right from conceptualization to commissioning of Water, Sewage & Effluent treatment plants & systems.





#### **Key Services**

- Customised, modular, packaged waste water treatment systems
- Monitoring of STP/ETPs for optimsied Operations

Mr. Badri Narayanan Founder badri@orvana.in

## ROCE RENEWABLES

## RICE Renewables Pte Ltd

RICE Renewables is an emerging PV consultancy and knowledge disseminator in the Asian Solar market. Based in Singapore, they work on bridging the gap between stakeholders in the ZEB/Green building market segment, offering Technical & Commercial expertise and sustainable solutions for Asia's growing energy needs.



Qi Square Pte Ltd

Qi Square Pte Ltd is a Singapore based

on the digitalization of sustainable built

environment. The AI-powered building

simulation engine of BtrLyf by Qi Square

accelerates the adoption of energy efficient/

sustainable solutions through digitizing the

company, setup in June 2017, and focusing

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### Wah & Hua Pte Ltd

Wah & Hua Pte Ltd – a multi-material recycling and waste Management Company that provides service for the collection of recyclables materials from small business to large corporations.



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#### **Key Services**

- Waste Collection (tie-up with recycle vendors)
- Recycling & Waste Management (town/city level)
- Waste-to-Energy (WTE) and Waste-to-Product (WTP)

Ms Roxie Wang Business Development Manager, roxie\_wang@wahhua.com





#### **Key Services**

- Carbon Negative Industrialised Construction
- Timber construciton (all type of buidlings)

Mr Hams Tino Country Manager, APAC & EMEA hams@venturertimberwork.com



## Upcoming Workshop/Training

## About Us



The Confederation of Indian Industry (CII) works to create and sustain an environment conducive to the growth of industry in India, partnering industry and government alike through advisory and consultative processes.

Cll is a non-government, not-for-profit, industry-led and industry-managed organization, playing a proactive role in India's development process since 1895. It is India's premier business association with over 7,400 members, from the private and public sectors, including SMEs and MNCs.

## Enterprise Singapore

Enterprise Singapore is the government agency championing enterprise development in Singapore. The organisation supports the growth of Singapore as a hub for global trading and startups. As the national standards and accreditation body, Enterprise Singapore continues to build trust in Singapore's products and services through quality and standards.

With Enterprise Singapore's global network in over 35 locations spanning many developed and emerging markets, it connects businesses with relevant Singapore companies for their business expansion.



CII formed Indian Green Building Council (IGBC) in 2001. IGBC has been promoting the green building concept in India for the past two decades. At present, over 10,296 projects with a footprint of about 10.24 billion sq. ft. are registered with IGBC and implementing green concepts. Further to transform Indian Building Sector, IGBC initiated dialogues on Advancing Net Zero in 2014. The Net Zero Energy Building framework was developed and launched in 2018, to inspire projects to demonstrate Net Zero Energy performance.

IGBC'S mission on Net Zero is to facilitate 'India to become one of the foremost countries in transforming to 'Net Zero' by 2050' and it has been launched in 2021, as to date, more than 300+ leading corporates and organisations have already joined IGBC's Net Zero Movement.

## **IGBC NET Zero Rating Systems**







# Enterprise Singapore

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For any support and information, please feel free to contact us

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IGBC