Panel Discussion on

"Challenges and opportunities for net zero carbon practices in the construction industry"

Date: 24 November 2022

Time: 11:00 – 12:15 Australian Eastern Daylight Time

Venue: Western Sydney University, Kingswood Penrith Campus, Hall KW-P.1.50

Session: 'CIB TG124 Net Zero Carbon' session in the AUBEA 2022 conference Parallel Session 1

Background to CIB TG124

The International Council for Research and Innovation in Building and Construction (CIB) is the worldwide network of building and construction experts who improve their performance through international co-operation and information exchange with their peers to improve the quality and impact of research and innovation activities in the sector. CIB was established in 1953 and has members across 53 countries, including 1351 experts, 35 working commissions and 6 task groups. CIB TG 124 (Net Zero Carbon Building Design and Construction (TG124 Net Zero Carbon Building Design and Construction Practices - CIB (cibworld.org) is established this year with the aim of bring together leading construction industry and other experts internationally to debate, research and reduce global construction emissions targets to support the expectations set out in the Paris Agreement.

CIB TG124 Coordinators

Dr Niluka Domingo is a senior lecturer in the School of Built Environment at Massey University New Zealand. She has over 12 years of experience in sustainable construction research with an excellent track record of publications, awards, and research grants. She is currently leading the Innovation, Resilience and Climate Change research group at Massey University.

Prof. Suzanne Wilkinson is the Associate Dean of Research at the College of Sciences at Massey University, New Zealand. She has extensive research and consulting experience in resilience building, disaster management, disaster recovery, and disaster reconstruction and is currently working on government-funded climate change mitigation projects.

A/Prof. Sepani Senaratne is the Director of Academic Program (DAP) Undergraduate Construction Management at Western Sydney University, Australia. She has over 150 publications, with several awards and grants. Her current sustainability research is focused on circular economy, embodied carbon reductions and lifecycle costing.

Panel Moderator:

Prof. Srinath Perera: Professor of Built Environment & Construction Management, Western Sydney University and Director at c4SMC. Srinath has many research specialties, and his sustainability research are in carbon management, whole life costing, low carbon building technologies. Srinath is the mentor for CIB TG124 and the program committee chair for the AUBEA 2022 conference.

Panel Members:

Jorge Chapa: Head of market transformation at the Green Building Council of Australia. He is the chair of WorldGBC's Global Commitment for Net Zero Carbon Buildings Taskforce. He is also a member of Climate Bonds Initiative Building Standards working group, the Australian Sustainable Finance Initiative's Technical Advisory Group, and GRESB's Real Estate Standards Committee.

Joe Karten: Head of sustainability and social impact for Built. He is a specialist in Green Star, WELL and NABERS certification and peer review, circular economy, net zero carbon, and LEED certification. With his national and international experience in sustainable design and construction methods, he contributes to the proliferation of sustainability throughout the built environment.

Laszlo Peter: Partner and CEO of KPMG Origins. He has experience working in several countries, managed large and specialist teams, driven business strategies, developed technology platforms and orchestrated the Asia Pacific collaboration effort around investments in emerging technologies. He led the Building Trustworthy Indicator (BTI) with embodied carbon estimating project for the NSW government.

A/Prof Thayaparan Gajendran: Assistant Dean - Education, College of Engineering, Science and Environment at University of Newcastle. His research focuses on the sociological aspects associated with built environment in the context of construction, project and disaster management and net zero carbon.