



Unlocking Asset Value: Zero Carbon Design and Embodied Carbon Optimization Strategies

WORKSHOP OVERVIEW

Understanding the intricacies of whole life carbon emissions – a lifecycle perspective – is essential to enhancing asset value, achieving net zero (and net zero enabled) buildings, and reducing costs. This session will introduce whole life carbon thinking and then deep dive into embodied carbon optimisation strategies from a structural engineering perspective. The following aspects will be covered:

- Articulating whole life carbon principles for zero carbon design
- Optimising embodied carbon to reduce upfront carbon emissions
- Utilising advanced computational design approach to improve design efficiency
- Conducting optioneering to identify the most sustainable and cost-effective solutions
- Showcasing Zero Carbon Design case studies

LEARNING OUTCOME

1. **Learn** whole life carbon principles with a focus on embodied carbon and the strategic methods for reducing upfront embodied carbon associated with structural design.
2. **Gain** an appreciation of how efficient structural design contributes to the enhancement of asset value, sustainability and cost savings.
3. **Understand** the benefits of utilising advanced computational design approaches in structural engineering practices.

Facilitator's Profile



Dr Chaoming Yu
Associate Director
Structural Engineering Cundall

Chaoming is a Chartered Structural Engineer with 17 years of consultancy experience and four years of research and specialist

KNOWLEDGE PARTNER

Dr Chaoming Yu
Associate Director,
Structural Engineering
Cundall

DATE

30 May 2024, Thursday

TIME

9:30am to 12:00pm

VENUE

REDAS Boardroom
190 Clemenceau Avenue
#07-01, Singapore
Shopping Centre, S239924

FEES (Subject to GST)

- * **\$200** (REDAS Member)
- * **\$250** (Non-REDAS Member)

TO REGISTER

Please click on the link below
https://events.redas.com/e/The_Engineering_Approach

REGISTRATION

Registration will be closed on **23 May 2024**

CPD ACCREDITATION

BOA-SIA: Pending
PEB: Pending

CONTACT

Please email enquiries to:
- Jojo Wong
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consulting experience in structural engineering and structural fire engineering. She brings a wealth of global knowledge and expertise, with a wide range of project design and management experience in Singapore, Southeast Asia, Hong Kong, Mainland China, Macau, UK, and Middle East.

Her project experience also spans a variety of sectors including airport, cruise terminal, railway stations, mixed-use developments, sports, hotels, offices, retail, museums, residential, and many others.

Chaoming currently leads the structural engineering services team at Cundall, Singapore. She is specialised in unconventional structural design, such as long-span structures, tall buildings and structures with complex geometry forms, and structural fire engineering. She has published several papers and books about her research and project experience.

Real Estate Developers' Association of Singapore (REDAS)

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