Training Course on

"Moving towards net zero? – How to quantify GHGs emission and other environmental impacts of products by adopting a life-cycle approach"

During times of increasing climate-related risks the pressure for businesses to quantify and report their environmental impacts rises. While governments are moving towards net-zero targets many companies try to understand the full scope of their environmental impacts including the "embodied carbon" originating from each stage of the life cycle of products they design, produce or procure for their own use. While focusing on just a few "sustainable aspects" to define product sustainability can be misleading, a broader look at the life cycle of products can illuminate unexpected adverse environmental impacts. However, in many cases it is non-trivial to find out what are the full life cycle impacts (from resource extraction, manufacture, use, all the way to end-of-life management).

This training workshop will guide you to understand the key methodologies and frameworks around the assessment of *life cycle impacts* and *embodied carbon*. It will further dive into a variety of tools and product examples to teach you how to interpret life cycle assessment results and how such knowledge canbe used for better decision making.

Green Council would like to invite professionals who are from environmental, engineering and building management background to join us in an exclusive interactive training which will focus on the key emission sources from the stages of the product life cycle such as production or transportation that are often being ignored.

Details

Training Content:

- What is life cycle thinking and why is it a crucial concept for moving towards net-zero?
- How can life cycle assessment (LCA) help to quantify and evaluate product sustainability?
- What are the key frameworks and tools of LCA and embodied carbon assessments?
- How can LCA results be analyzed and applied in product design and procurement decisions?
- How is life-cycle costing adopted in the procurement process?

The workshop will further introduce

- key frameworks and standards (ISO standards, Environmental Product Declarations, ProductCategory Rules, Environmental Labelling, etc.).
- demonstrations of life cycle tools (incl. CIC-CAT)
- a variety of examples and exercises how LCA can be applied for impact disclosure, and environmental labeling

Date and Time:
9:00-17:00 on Friday, 10th February 2023

Language: English

Venue: Room 201, 2/F Pico Tower, 66 Gloucester Road, Wan Chai, Hong Kong

Size of Class: 40

Fee: Free of charge

Please contact us at 2810 1122 for more information

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Certificate

Certificate of Attendance will be issued to participants who attended the training course and complete a feedback survey.

Instructor

Dr. Meike Sauerwein, Lecturer, The Hong Kong University of Science and Technology

Meike holds an appointment as a lecturer in the Division of Environment and Sustainability and is the Academic Lead of the HKUST Life Cycle Lab. Her research and teaching focuses on the holistic assessments of the environmental impacts through life cycle assessment (LCA) and how such knowledge can be utilized for sustainable product and circular system design, product labelling, behavioural research, and consumer education as well as policy making. Meike has been rolling out various courses and seminars at HKUST to equip students in different engineering disciplines with life cycle thinking concepts and assessment skills. She is further involved in interdisciplinary research on sustainable consumption behaviour with focus on reuse systems and fast-moving consumer goods and textiles.

Supporting Organizations

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