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 can be 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, Product Category 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:
Session 1:
14:00-17:00 on Wednesday, 6th April 2022

Session 2:
14:00-17:00 on Friday, 8th April 2022

Maximum: 70 people (first come, first served basis)
Language: English
Venue: ZOOM Meeting
Fee: Free of charge
Please contact us at 2810 1122 for information

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Certificate

Certificate of Attendance will be issued to participants who attended 2 sessions of training course

Instructor

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

Meike is a lecturer in the Division of Environment and Sustainability at The Hong Kong University of Science and Technology. As an environmental chemist by training, her interest lies in the holistic assessments of the environmental impacts of products through life cycle assessment (LCA) and how such knowledge can be utilized for product and system design, product labelling, policy making and consumer education. Besides her involvement in research and projects, 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 behavior with focus on fast moving consumer goods and textiles, investigating the impacts of the recent pandemic on consumer awareness and consumption behavior.

Supporting Organizations

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