GreenRE

GREENRE TECHNICAL SEMINAR 01-2024

# OPTIMISING URBAN MICROCLIMATE AND THERMAL COMFORT USING ORBITAL STACK FOR GREENRE TOWNSHIPS

## FEBRUARY 7, 2024

10.00 am - 05.00 pm

Wisma REHDA, Kelana Jaya

Course Fees

**RM299** (GreenREAP/REHDA)

**RM349** (Non-Member)

(Course fee including 6% SST)

Certificate of Attendance will be given

CPD: GreenRE (5), HRDC Claimable (waiting for approval)

HRD CORP CLAIMABLE

Notes:

- The pro forma invoice will be sent once the registration has been submitted
- The registration is confirmed once the payment done. The invoice and receipt will be sent after the payment received
- GreenRE has the right to alter the schedule of the course in the best interest and is not responsible for cancellation due to unforeseen circumstances

**Register Now**

For further information,

training@greenre.org

03-7803 2978

www.greenre.org

SCAN TO REGISTER

## Course Objective

After attending this course, participants are expected to be able to:

- Explain what urban microclimate is and the significance of studying it
- Recognise wind comfort and thermal comfort as one of the primary factors affecting the urban microclimate
- Discuss the different types of climate data available and distinguish the differences between them
- Describe the competing and sometimes contradictory requirements of different parameters in the urban realm and how to manage these to achieve satisfactory levels of natural ventilation and wind comfort.
- Identify means for improving thermal comfort within the public realm using different massing, building adjacencies and topologies, etc. to manipulate wind and shade
- Understand the 3D modelling requirements and parameters required to setup and run an Orbital Stack simulation
- Navigate through the Orbital Stack platform to review, annotate, output, and share results
- Administer an Orbital Stack account, manage users and projects
- Troubleshoot and rectify basic errors in running a simulation

## Speakers' Profile

**Mr. Zain Adlin**
An Engineer at RWDI. He is currently involved in engineering consultation and software development specializing in Numerical Modelling within the Buildings and Environmental sectors.

**Mr. Ghar Ek Lau**
A Senior Scientist Engineer from RWDI. Ghar is an experienced engineer based in RWDI Kuala Lumpur office. With his solid technical expertise in building and urban physics, he has a proven track record in project delivery and providing consulting services on a broad range of residential, commercial, hospitality and industrial developments within the Asia Pacific region. His area of expertise include building performance, climate-responsive urban design, thermal comfort, air ventilation assessment (AVA) and pollutant dispersion modelling.

## Course Schedule

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|---|---|
| **10.00 am - 11.00 am:** | Climate and Met Data |
| **11.00 am - 12.00 pm:** | MIcroclimate / Thermal Comfort Background |
| **12.00 pm - 12.30 pm:** | Q&A |
| **12.30 pm - 01.30 pm:** | Lunch break |
| **01.30 pm - 05.00 pm:** | Orbital Stack |
| **05.00 pm:** | End of course |