OCBC Property Services

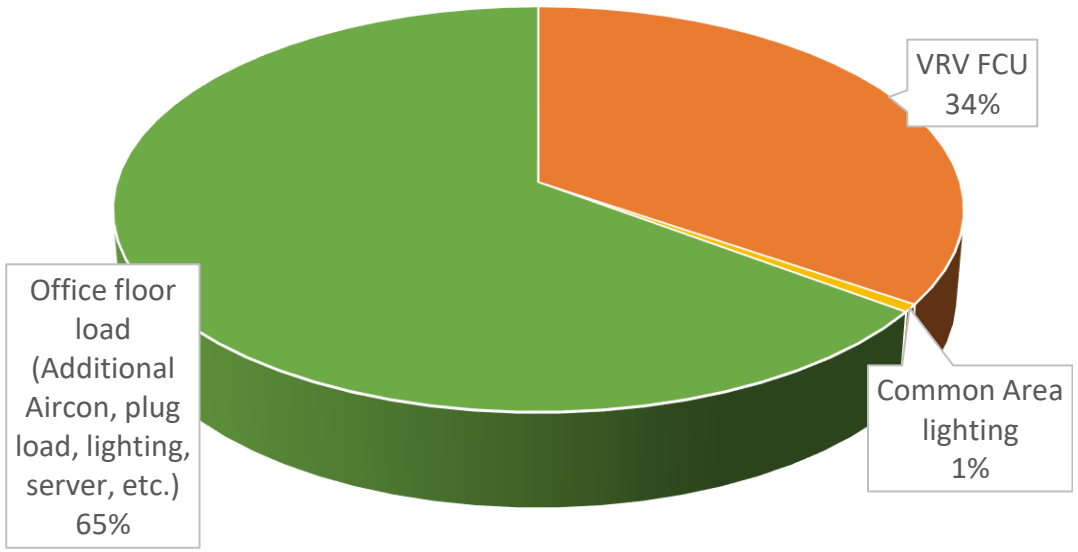
OCBC Property Services - Challenge Statement for R&I

Heng Wee Loon

Bank of Singapore Centre – Current Situation

- 22-storey office building located at 63 Market St, Singapore 048942.
- Commercial / office building with GFA of 23,147.42 m_2.
- A/C system – VRF (Installed Capacity ~ 500RT, Weighted System Efficiency – 0.808 kW/RT)
- Last GM rating – Certified (2022)

Estimated Total Energy Consumption Breakdown for BOSC



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Bank of Singapore Centre – Challenge Statement for R&I

To push towards SLE for buildings cooled by VRF system through emerging intelligent systems such as industrial metaverse coupled with innovative energy reduction solutions

1. The solution/system proposed should achieve 25-30% more energy savings than current Green Mark 2021 Platinum levels.
2. Solution should respond to occupant's thermal comfort in real-time while not cooling unnecessary spaces.
3. There should not be major overhaul of the current infrastructure such as ducting, wiring etc.
4. Installation can be completed after office hours and/or over the weekend.
5. Measurement and verification period of solution should not affect business as usual usage of space.
6. Maintenance cost and effort of system/solution should also be comparable or less than the current system (eg. VRF system) being replaced; or minimum incremental maintenance effort if the solution is in addition to current setup.

The space that will be provided for testbedding will comprise of a ‘live’ office space and an employee rest and dine area cooled by existing VRF system (estimate about 100 to 900 sqm). As this space will be a ‘live’ working environment, aesthetics of the pilot setup needs to be duly considered and provided.

Photo of Level 16

Photo of any BOSC office level

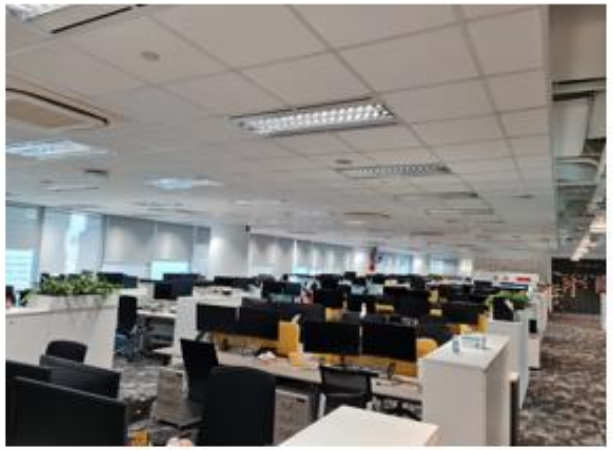
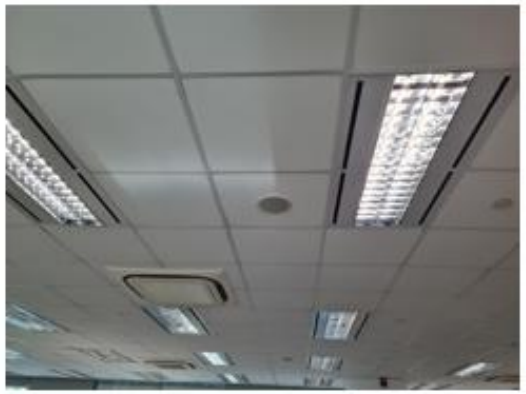


Photo of Level 16 aircon and lighting fittings

Photo of BOSC office level aircon and lighting fittings



Thank you

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