



RETROFITTING HKUST BUILDING

LSK BUSINESS SCHOOL Building



Building age: 13 years

Gross Floor

Site Area: 3990m²

Usage: Offices, classrooms, F&B outlets

Cooling: District cooling

2024 Electricity Consumption: 2,839,300 kWh

2024 Cooling Energy Consumption: ~1 million kWh

2024 Rooftop solar generation: 97,000 kWh (FiT scheme)

Feb 2025 Faculty and Administrative Staff: 589

Feb 2025 Students: 3648 (of which Research Post-Graduate students make up 128)



IMPROVEMENT POTENTIAL

- Refine the Digital Twin of LSK to incorporate more IoT data
 - Improve the thermal insulation of the building
 - Optimize electricity and air conditioning usage
 - **15%** reduction in annual energy consumption
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