

////// SMU CONNEXION - SINGAPORE

Client: Singapore Management University / Architect: MKPL / Anticipated completion: TBC

SMU Connexion is the first Net-Zero Energy Building located in the city center of Singapore. Spanning over 8775m², this five-storey institutional building functions to support teaching and learning with 24/7 student hub.

Passive design strategies include a self-shading building form, optimized natural ventilation, daylight harvesting & minimized glare, prevent wind riven rain penetration, reduced urban heat island effect & thermally comfort outdoor spaces and etc.

SMU Connexion features an innovative Enhanced Passive Displacement Cooling (EPDC) System which is integrated with lighting fixtures, sensors & controllers and modular. Photovoltaic panels on the rooftop generate power to offset the buiding energy consumption.



ETTV reduction 50%



21% more energy efficient chiller plant



Motion & Lux sensor with Zoning



Reducing 30% water consumption



Operational Waste Management



632.5 MWh/year



90% savings - Air distribution



69.1% more energy efficient in LPD

