DEWAN TZU CHI JING SI (KL)
A HUMANITARIAN & ENVIRONMENTALLY FRIENDLY FOUNDATION

NON-RESIDENTIAL NEW CONSTRUCTION [NRNC]

OWNER/APPLICANT
TAIWAN BUDDHIST TZU-CHI FOUNDATION MALAYSIA

PROJECT ADDRESS
NO. 359, JALAN KEPONG, MUKIM BATU, 52000 KUALA LUMPUR, WILAYAH PERSEKUTUAN, MALAYSIA

PROJECT DESCRIPTION
Dewan Tzu Chi Jing Si is a people oriented building, by Taiwan Buddhist Tzu-Chi Foundation Malaysia, an International non-profit Humanitarian Non-Governmental Organization (NGO) with eight humanitarian missions, one of which is its support towards Environmental Protection. Dewan Tzu Chi Jing Si was designed to achieve sustainability by reducing its carbon footprint through complying to Green Building Index (GBI) Certification. Dewan Tzu Chi Jing Si has successfully achieved GBI Gold rating in June 2021 with an added 5 Star GBI Energy efficiency rating.
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The spacious and airy Dewan Tzu Chi Jing Si maximizes the use of daylight and cross ventilation which resulted in an extremely low Building Energy Intensity (BEI) value of 49.21kWh/m². The installation of a Building Management System (BMS) that links most of the mep systems throughout the building and sensor meters installed in the building further aids in providing better monitoring and maintenance optimising the operational functions resulting in reduced power utilisation for the building. Solar energy of 43kWp photovoltaic (PV) panels installed on the roof contributes 2.8% of total building energy consumption. The energy and the building façade work so well by lowering the overall thermal transfer of heat into the spaces making Dewan Tzu Chi Jing Si achieve an OTTV on par with the energy value of 49W/m².

Supporting the Dewan Tzu Chi Jing Si, the foundation has taken a more vigorous approach by adopting greywater recycling and rainwater harvesting (RWH) to facilitate more effective use of water on site. The RWH system installed are able to contribute 31% reduction of total potable water usage. The harvested rainwater serves 100% of the landscape irrigation needs. One hundred percent of the greywater is treated through the constructed wetland and serves the irrigation needs, significantly reducing total potable water usage.

With an extensive green education centre and herb garden, Dewan Tzu Chi Jing Si is a community space opened to all, providing a peaceful environmentally friendly place of refuge serving their 8 charitable missions of Charity, Medicine, Education, Humanistic Culture, Environmental Protection, International Disaster Relief, Bone-Marrow Donation and Community Volunteerism.