

Annex C: Key Green Features at Pasir Ris Sports and Recreation Centre

Gold^{Plus} (New Non-Residential Building)



Client / Developer	Singapore Sports Council
Project Manager	CPG Consultants Pte Ltd
Architect	CPG Consultants Pte Ltd
M&E Engineer	CPG Consultants Pte Ltd
Structural Engineer	CPG Consultants Pte Ltd
Quantity Surveyor	CPG Consultants Pte Ltd
Main Contractor	Quek Hock Seng Construction Pte Ltd
ESD Consultant	CPG Consultants Pte Ltd
Acoustic Consultant	CCW Pte Ltd

Estimated energy savings: **711,440 kWh/yr**

Estimated water savings: **27,948 m³/yr**



Energy and water efficient fittings

- Extensive use of energy efficient LED lighting that are of longer life span, in key areas such as the foyer, offices, meeting rooms and corridors
- Majority of the water efficient fittings were selected from the Water Efficiency Labeling Scheme (WELS)



Ventilation in common areas

- The building was designed to reduce reliance on air-conditioning by having most of the common areas naturally ventilated



Irrigation system

- Rainwater is harnessed to irrigate the landscaping, therefore reducing consumption of potable water



Greenery

- Extensive use of greenery to reduce heat island effect. At the same time, the greenery provides a seamless transition to the adjoining Pasir Ris Town Park



Rain garden for storm water management

- Rainwater run-off from the tennis courts and driveway is channelled into the rain garden. The rain garden acts as a natural filter prior to releasing the water into the public drainage network



Photovoltaic system

- Installation of about 2,400m² of solar energy (photovoltaic) panels on the roof to tap on the sun's energy



Human powered energy

- Active engagement of community – gym equipment allows gym users to generate energy to power up the television



Sunshading

- Materials reclaimed from the old National Stadium's timber seats are recycled as louvers, acting as sunshading feature on the external façade