

Waterway Terraces I



DID YOU KNOW?

Waterway Terraces I is the first housing project along My Waterway @ Punggol, where the green landscapes help to bring nature closer to residents.

Waterway Terraces I has won the Green Mark Platinum award, the highest recognition for environmentally-friendly buildings.

This housing project was launched in 2010 and completed in 2015.

The precinct has many green features to help residents lead an eco-friendly lifestyle.

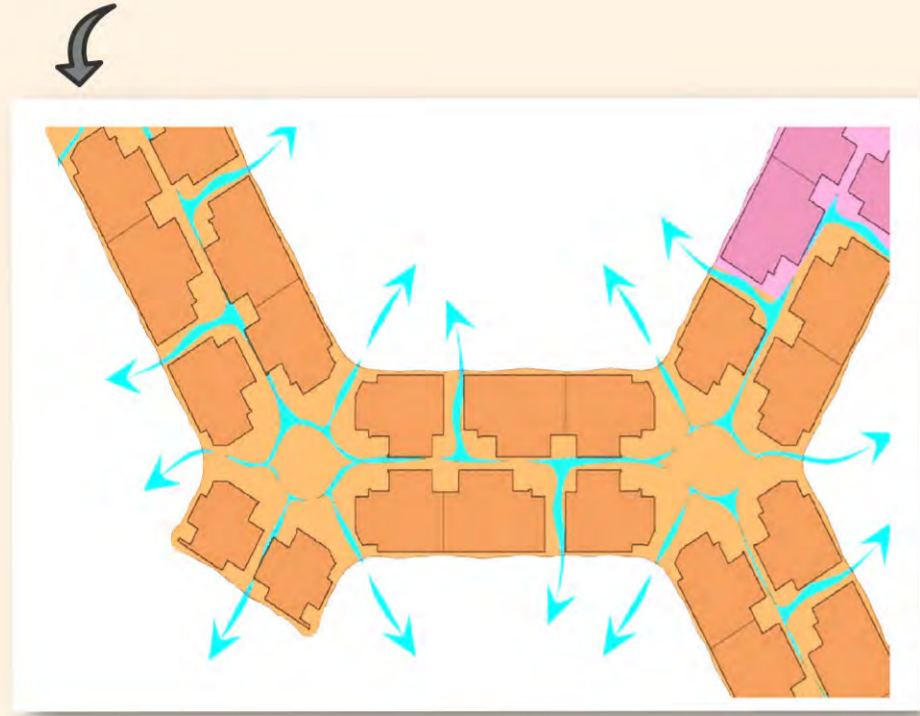
1 Precinct Information

- A core design element of Waterway Terraces I was establishing a strong relationship between the buildings and the boundaries of the waterway. The cascading skyline, created by the landscaped terraces of the roofs, serves to highlight this connection.
- Located right along the waterway, Waterway Terraces I consists of three 18-storey blocks joined in a hexagonal arrangement to form 3 intimate courtyards, that bring residents closer to nature.
- Inspired by terraced rice fields across Southeast Asia, the unique roof gardens are what set Waterway Terraces I apart.



2 Natural Ventilation

- HDB used a ventilation software, Computational Fluid Dynamics (CFD), to identify the most effective building design and layout that enable good natural ventilation.
- Natural ventilation is provided at common areas such as lift lobbies, corridors and staircases, removing the need for mechanical ventilation, hence reducing the overall energy consumption of the building.



Façade

- The design of the façade utilises horizontal sun-shades to minimise the impact of solar heat on the housing units.



3 Energy Efficient Lights

- All common areas and courtyards are installed with T5 fluorescent lamps with High Frequency (HF) electronic ballast.
- The design of the lighting is aimed at reducing energy consumption.



Energy Efficient Lifts



- The lifts utilise AC Variable Voltage and Variable Frequency (VVVF) motor drives, and are designed with a sleep mode function, which switches off the lights and ventilation fans when the lifts are in idle mode.

Motion Sensors

- Motion sensors are installed at staircase half-landings and in the corridors to detect occupancy, and to control the light switches to reduce energy consumption.

4 Dual Chute System

- To promote recycling in Waterway Terraces I, residents have access to 2 refuse chutes for general refuse and the collection of recyclable items respectively. This encourages residents to separate recyclable from non-recyclable waste.



5 Solar Panels



- Solar panels are installed on the roofs of the blocks to harvest light energy that powers common area lighting within the precinct.

Green Roofs

- Green roofs reduce heat absorption on roof surfaces, and enhance the comfort of residents living in the units at the topmost storey.
- Rooftop gardens are provided for residents to relax and enjoy the views of the waterway and the surroundings.



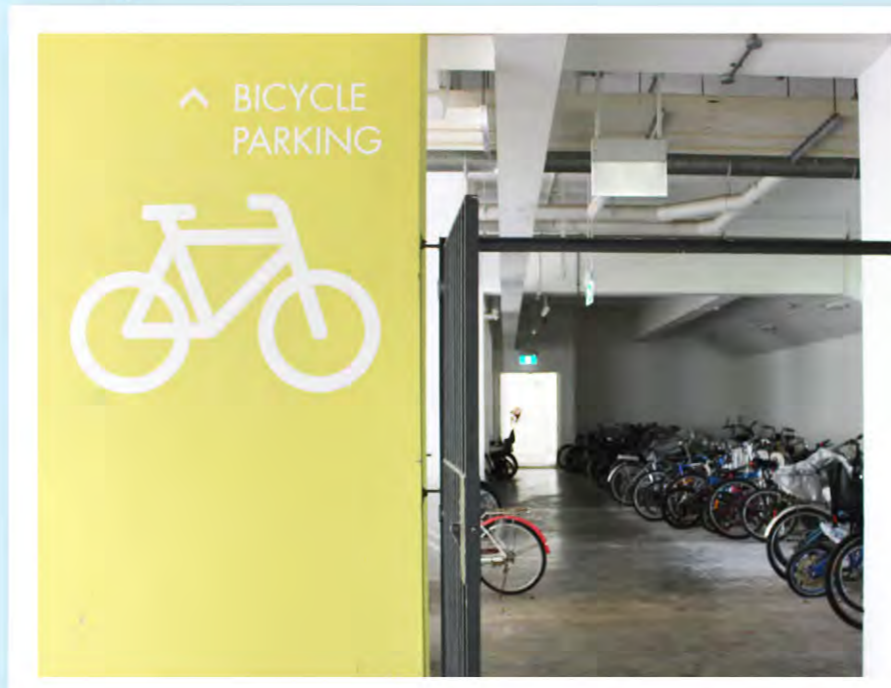
6 Sun Pipe System

- The sun pipe system installed within the basement car park helps to bring daylight into the car park. This reduces the need for artificial lighting during the day in the car park.



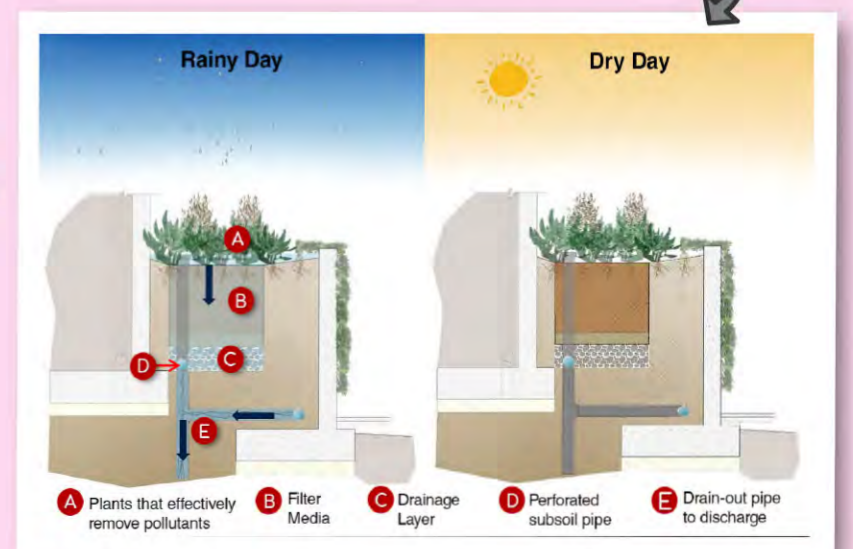
Bicycle Parking

- There is a bicycle parking area provided for residents at the car park level. This encourages residents to walk, cycle or take public transport to reduce carbon output.



7 Rain Garden (Bioretention Swales)

- The rain garden is implemented around the common green area to pre-treat hardscape run-offs before discharging them into the storm water drains for more effective storm water management.



For more information and tips on eco living, visit:



www.hdb.gov.sg/practiciseecoliving



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