PARKS LIBRARY - Designed with the Environment in Mind

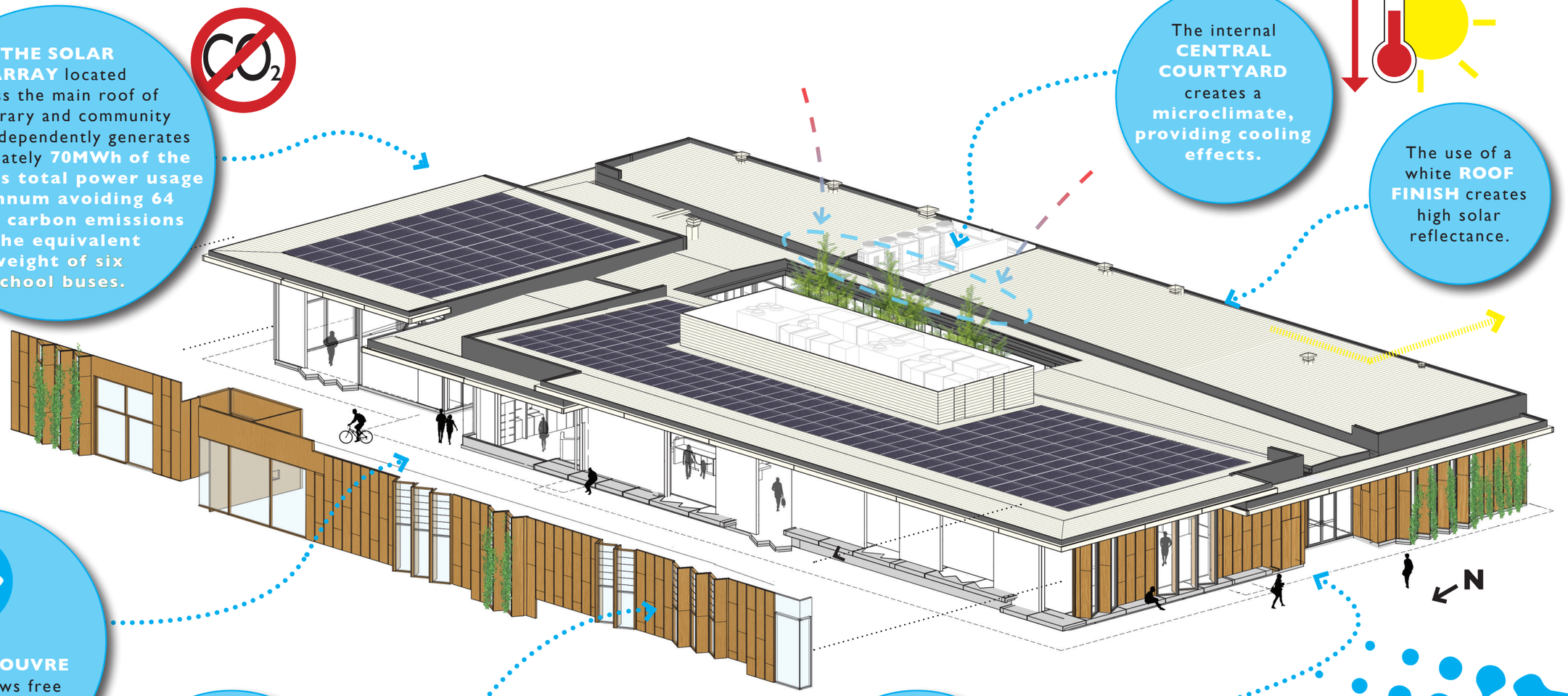
The unique Parks Library building occupies a 2,000 square metre space, and has been designed to be environmentally sustainable and built using energy efficient materials, with many innovative features hidden from view. From the use of the white reflective roof finish alternating with 60 KW of solar panels to provide power, to the underground rainwater recycling tanks, the Parks will be delivering energy efficiencies now and into the future. The building is positioned to maximise energy efficiency, with composite timber façade materials, a sunshading canopy, a central courtyard allowing cooling ventilation throughout, responsive windows providing soft, filtered light, and an energy monitoring system for maximum efficiency operation.

The Parks Library is truly state-of-the-art. So take a stroll around and experience the latest in innovation and sustainability.

THE SOLAR ARRAY located across the main roof of the library and community space, independently generates approximately **70MWh of the building's total power usage per annum avoiding 64 tonnes carbon emissions - the equivalent weight of six school buses.**

The internal **CENTRAL COURTYARD** creates a **microclimate, providing cooling effects.**

The use of a white **ROOF FINISH** creates high solar reflectance.



An operable **LOUVRE SYSTEM** allows free ventilation when climatic conditions allow.

The composite timber **FOLDED FACADE** protects the interior from Western heat loads, and planting provides additional shade.

The facade utilises responsive **WINDOW ORIENTATION** to gain filtered daylight rather than direct natural light.

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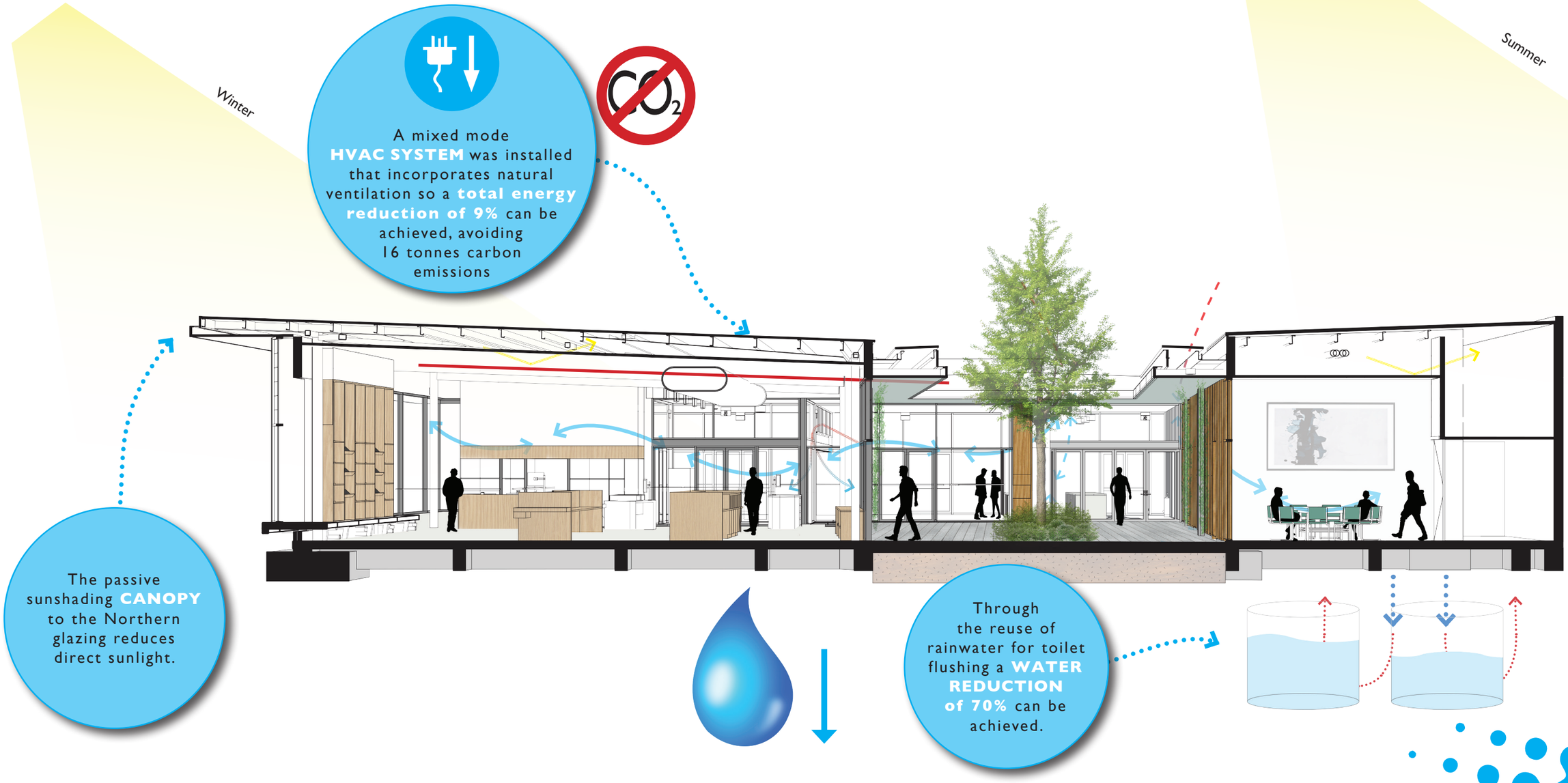
PARKS LIBRARY - Sustainable Building Design



The Parks Library, with its sustainable building design, helps us achieve our strategic priorities

In line with our energy targets

- Achieve a reduction in corporate greenhouse gas emissions of 23% from 2008-2009 baseline emission levels by 2022
- Achieve a reduction in corporate energy consumption of 18% from 2008-2009 baseline emission levels by 2022
- Implement innovative measures to improve water efficiency for Council assets

In line with our City Plan 2030

- Reduce energy, water and GHG emissions
- Raise awareness about energy and water efficiency
- Implement innovative projects
- Save money through corporate energy and water efficiency measure

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