

Environmental Excellence – Winner

Triptych by Stable Group

Triptych by the Stable Group is the winner of the Environmental Excellence award.

The high-density building tackles sustainability and energy efficiency with a focus on simplicity rather than complexity.

It combines co-generation, rainwater harvesting, automatically-regulated cross-flow ventilation and the use of sustainable materials.

The Triptych site originally had a permit for 269 apartments but the density of the project was reduced by 40 percent to 157 apartments of better size and quality.

Water saving has been a crucial aspect in the design.

All plants are watered via rain water that is harvested from the roof, which is also used for irrigation purposes and to top up the swimming pool and the hydronic heaters.

Energy efficiency has been carefully considered to reduce Triptych's carbon footprint and its residents' body corporate fees and energy bills.

The building has its very own co-generation plant, to generate electricity, recycle waste products and heat the communal areas of the building.

Floor to ceiling windows allow natural light to heat each apartment and a series of control systems open and close windows automatically depending on the climate.

The project has been hugely successful, generating revenue of about \$227.6 million.

What the Judges said

There are many innovative sustainable elements of Triptych that make it so deserving of an award in this category.

A cogeneration strategy – using a gas-fired micro turbine to generate electricity, recycle waste and heat communal areas – is employed to reduce the building's carbon footprint and reduce each resident's energy bills.

Cross-ventilation of atrium spaces is achieved through passive engineering which naturally cools the building. Some windows are automatically opened based on external and internal temperature monitoring and louvered windows help to minimise reliance on artificial temperature control systems. Apartments also have the opportunity to use cross ventilation through a specially cut motif screen door to each apartment coupled with openable windows.

Landscaping and garden structures are watered via rain water harvested and stored in rainwater tanks. The irrigation system is automatically monitored to ensure the appropriate level of water is used.

