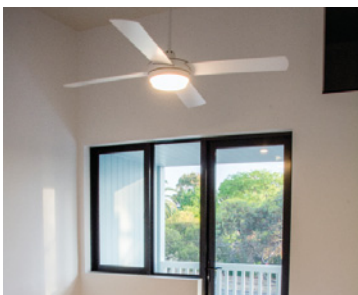




FACT SHEET



INNOVATION THROUGH DEMONSTRATION



POWERING WGV

AUSTRALIA HAS AMONG THE HIGHEST PER CAPITA CO² EMISSIONS IN THE WORLD. BY INCORPORATING ENERGY EFFICIENT DESIGN, RENEWABLE ENERGY AND INNOVATIVE TECHNOLOGIES WGV IS A MODEL FOR SMARTER ENERGY USE.

- Through energy efficient design and technology, WGV aims to reduce grid energy consumption by 60 per cent, with some lot types achieving 100 per cent (zero net annual energy) if they take advantage of the WGV Sustainability Package Rebate.
- The precinct will become a 'living laboratory' as part of a four year research project to monitor energy efficiency and technology performance.
- Shared solar capture and battery storage technology is being trialled at the Gen Y Demonstration Housing Project.

The energy targets and initiatives at WGV will encourage residents to be more conscious of their everyday energy consumption.

Major energy efficiency measures implemented at WGV include the use of renewable solar energy and trial of battery storage technology in a shared strata setting, embedding minimum energy efficiency requirements in Design Guidelines, a precinct layout which accommodates climate-responsive design, and performance monitoring to model energy use and improve efficiencies.



ENERGY SAVING INITIATIVES WILL DELIVER A SMARTER WAY OF LIVING FOR A MORE SUSTAINABLE FUTURE.

As an Innovation through Demonstration project, WGV provides a model for developers to reduce the energy intensity of urban developments and improve the long-term sustainability of future residential communities.

INTERCONNECTING ENERGY SAVING INITIATIVES

MULTIPLE ENERGY-SAVING INITIATIVES CONTRIBUTE TO A SIGNIFICANT REDUCTION IN ENERGY CONSUMPTION WITHIN THE ESTATE AND WILL ENCOURAGE RESIDENTS TO LIVE MORE SUSTAINABLY.

The overall layout of the precinct, has been undertaken with the greatest care to embrace passive solar design principles. In practical terms, this means dwellings are north-facing to harness the sun's energy for natural heating. Landscaping and street trees have been selected to include a mixture of native species for year-round shade and deciduous trees for areas where summer shade and winter sun is required.

We have implemented Design Guidelines to set a minimum requirement for all WGV homes to reach a seven star NatHERS# rating for energy efficiency. The Design Guidelines also require builders to install specific energy-saving initiatives such as solar hot water systems or heat pump technology and improved appliance and lighting efficiencies.

In addition, financial incentives and free information such as the residents Introduction Package are on offer to encourage residents to live smarter.

A four year research project by the Cooperative Research Centre for Low Carbon Living and Curtin University will see WGV become a 'living laboratory', monitoring and assessing how energy efficient design, technology performance and occupant behaviour impact on the carbon footprint of the precinct.

This project will also assist researchers to identify opportunities to improve energy efficiency and design new technologies. Research findings will be openly shared with the public to improve education and sustainable design in the future.

*Figures based on average Perth consumption for single residential dwellings, when adopting WGV's Design Guidelines and Sustainability Rebate Package.
#NatHERS refers to the Nationwide House Energy Rating Scheme which is a national framework which regulates how Australian homes are rated for their thermal performance. Ratings range from zero to 10.

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