

ALKIMOS BEACH – ENVIRODEVELOPMENT ACCREDITATION

The first 224ha of Alkimos Beach has been awarded all six leaves of the Urban Development Institute of Australia's EnviroDevelopment tool, recognising sustainable developments across Australia. Alkimos Beach is the first development in Western Australia, and one of the largest developments nationally, to receive all six leaves.

Each leaf given in the EnviroDevelopment award has a different meaning including Ecosystems, Waste, Energy, Materials, Water and Community. The following information provides an overview and some specific elements of how Alkimos Beach achieves all six leaves of the EnviroDevelopment tool.

ECOSYSTEMS

The protection of the natural environment is a key focus in the design, delivery and operation of the master planned community at Alkimos Beach.

Development is environmentally sensitive and includes flora and fauna management, landscaping with a high percentage of native species, sustainable environmental practices and water sensitive urban design.

Alkimos Beach aims to protect the unique topographical features of the site such as the primary and secondary dune systems, some more than 10,000 years old. Maintaining the geographical flow of the landscape protects the character of the site and will result in a modern coastal community.

Fast facts:

- One third of the Alkimos Beach area will be dedicated parks, playgrounds, conservation and foreshore reserves.
- The area includes 43ha foreshore conservation zone to protect the natural biodiversity of the area.
- The Alkimos Beach design protects extensive areas of coastal dunes including some landforms created more than 10,000 years ago.
- Unlike other developments, Alkimos Beach will have sloping lots free of limestone retaining walls, following the contours of the land.
- A landscape package valued up to \$2,500 is available to every home buyer at Alkimos Beach to ensure landscaping that complements the natural setting, species and conditions.

WASTE

Alkimos Beach waste management aims to work towards a cradle-to-cradle outcome where 'waste' is captured and used as inputs to products used in property development, rather than being lost to landfill. For example, crushing limestone that is excavated from the ground and reusing it within the landscaping.

Fast facts:

- A waste management system is being piloted during construction and will reduce the amount of material that goes to landfill and may allow for material to be reused elsewhere on the site.
- Alkimos Beach is working with builders to recycle materials such as left over wood, plasterboard, plastics and bricks.
- Alkimos Beach is aiming to reduce weekly household waste by using 120L bins in place of 240L bins and running behavior change programs.

ENERGY

A comprehensive Energy Smart Home program and behaviour change programs aim to ensure Alkimos Beach moves towards carbon neutrality. Energy efficiency is a goal across all stages of the Alkimos Beach project – from development to community living.

Energy efficiency across all stages of the development will be achieved in a practical and cost efficient manner.

Fast facts:

- The Energy Smart Home program at Alkimos Beach will set the standards for future developments in Western Australia as every home aims to use up to 50% less energy than an average Perth home.
- The Alkimos Beach Energy Smart Home Package includes:
 - \$4,000 solar package rebate for each home to contribute towards a 1kW solar panel system and gas-boosted solar hot water system.
 - \$1,500 rebate to support the upgrade to higher energy efficient appliances
 - \$300 to support upgrade to LED more energy efficient light globes.
 - \$200 towards an in home energy monitor.

MATERIALS

Materials at Alkimos Beach have been chosen carefully. Considerations include materials original origin and how they are disposed of at the end of their life cycle. Your Guide to Smart Living educates people about materials that can present a health and environmental hazard due to unsustainable production and the release of potentially harmful gases.

By working with builders and purchasers we aim to encourage the use of natural materials and ingredients within materials, reduce the risk of harmful gases being produced in homes, and reduce the amount of waste during construction.

Fast facts:

The Alkimos Beach Eco-Material list has been established to help builders and purchasers identify products with low levels of volatile organic compounds and choose environmentally responsible materials that are more cost effective, time effective or accessible.

WATER

Alkimos Beach manages water in a holistic, interconnected manner encompassing the site's potable water supply, groundwater, stormwater, wastewater, wetlands and coastal waters.

The Water Smart component of the Your Guide to Smart Living incorporates simple design measures in the home and garden, allowing residents to use up to 50% less water than the average Perth home, equivalent to more than 50,000 litres of water per year.

Fast facts:

Being Water Smart at Alkimos Beach incorporates the following measures:

- Promoting inclusion of high water efficiency internal fittings and fixtures such taps, showerheads and toilets.
- Promoting use of high water efficiency internal appliances such as washing machines and dishwashers.
- Promoting the installation water smart irrigation.
- Promoting landscape with native and low water demand species.

COMMUNITY

Alkimos Beach will be a diverse and inclusive community that actively supports people from different age groups, cultures, faiths and abilities. Importantly, Alkimos Beach will be a well-connected community, providing residents with the structures and support to engage in decision making about their community and encouraging them to participate in a range of activities that foster connections and a sense of belonging.

Alkimos Beach will be a healthy and safe community, achieved through design practices that facilitate active living, promote safety and a sense of comfort and security. An example of this is the design of most houses at Alkimos Beach encourages high use areas, such as the kitchen, to be located toward the front of the house to increase surveillance on the street and encourage a safer neighbourhood.

Fast facts:

Alkimos Beach will be Perth's only new City Centre for the last 30 years and include a major shopping centre and business district, education and lifestyle offerings and will provide plenty of choice for residents and visitors including:

- Twice the open space of other developments including parks, playgrounds, conservation areas, reserves and walking and bike trails.
- Every home within 200metres of open space.
- No retaining walls providing friendlier environment, safer street outlook and connection between neighborhoods.
- Transport, schools, shops, parks and beach all within walking distance.
- Sporting and recreational clubs and community groups and facilities.
- Choice of four schools & many childcare centres planned.
- Up to 15,000 jobs in the City Centre when completed.
- Business, Commercial & Industrial areas, the only City Centre in the region.