

A GUIDEBOOK OF  
GREEN INITIATIVES

ECOWORLD  
CREATING TOMORROW & BEYOND

# CONTENTS

03

ECO ENERGY

05

ECO DESIGN

08

ECO WATER

10

ECO  
CONSTRUCTION

12

ECO  
MASTERPLAN

14

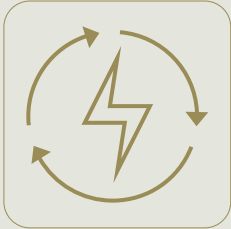
ECO  
LANDSCAPE

GREEN FEATURES :

# ECO ENERGY

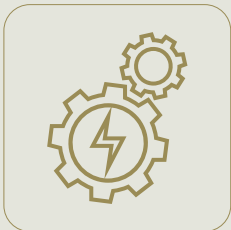
The sustainable approach to Eco Energy is simple and two folds; the first step is to reduce any form of wastage and the second step is to better manage your energy.

## RENEWABLE ENERGY



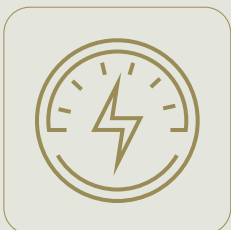
The most common form of renewable energy generation is solar PV (photovoltaic). With solar PV panels installed on a building's roof, you will be able to harness energy from the sun to generate electricity and help reduce your monthly bill.

## ENERGY EFFICIENCY



Achieving energy efficiency is the practice of optimising your energy consumption by reducing waste. Waste leads to inefficiencies and higher electricity costs. By using energy efficient electrical and mechanical appliances, you will be able to spend less on electricity and enjoy more savings.

## ENERGY MANAGEMENT



You can't manage what you don't measure and you can't be in control of what you don't manage. By being able to visually see and manage your electricity consumption in real-time through the built-in Smart Home System, you will know exactly how much electricity is being consumed by which appliance and at which part of the building. This way, you will always be in control.

GREEN FEATURES :

# ECO DESIGN

The main focus of ECO DESIGN is to create an optimised internal environment for natural air ventilation, visual and thermal comfort.

## BUILDING ORIENTATION



By studying the local sun path as it rises and sets from East to West, we are able to optimise a building's orientation to prevent excessive heat gains. As a result, your building is designed to ensure that its interior remains cool and comfortable throughout the day.

## WINDOW DESIGN



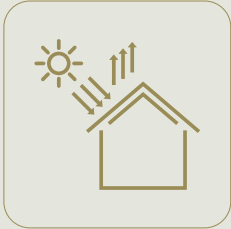
Determining the positioning and size of the windows in a building involves finding the right balance between outside views, natural light penetration and heat gain. We have optimised your building's window design to ensure that you will be able to enjoy pleasant views and natural lighting without the unwanted heat gain.

## SHADING MECHANISM



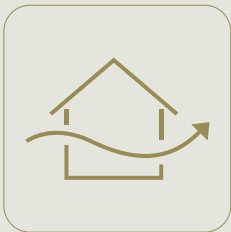
Building an extension roof slab is vital in blocking the direct sunlight a home receives. Therefore, we have specially designed a shading mechanism that provides a comfortable and cosy environment for your home by minimising the heat gain.

## COOL ROOF



A building's heat gain is mostly through the roof. By installing the right roofing material and insulation, heat gain that is passed through the roof can be reduced.

## NATURAL VENTILATION



Hot air naturally rises, hence we have designed your home to draw in natural air while allowing hot air to escape via cross ventilation from the windows. By carefully placing window openings towards the direction of prevailing winds, natural cooling air can be ventilated throughout the home.

## NATURAL LIGHTING



There is no better way to light your environment than through the natural rays of the sun. We have designed the exterior of your home to maximise daylight penetration reducing the need to turn on lights during the day.

## RECYCLING READY



A township with a recycling friendly design can encourage its community to do their bit for the environment. EcoWorld townships are recycling ready with recycling bins and points. We will also have continuous recycling campaigns and activities to engage residents.

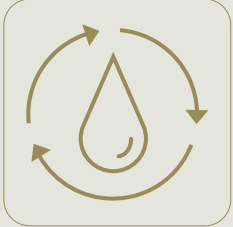
GREEN FEATURES :

# ECO WATER

The reason of ECO WATER is to reduce water wastage and be efficient.

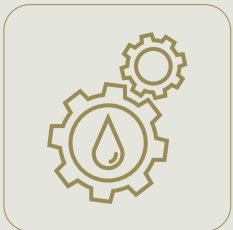


## RENEWABLE WATER



Malaysia is blessed with rain all year round and with this in mind, we've fitted your homes with rainwater harvesting systems. This puts renewable water source into good use for a host of daily activities, such as cleaning the front porch, watering the garden, plants and washing your car.

## WATER CONSERVATION



Conserving water is about reducing wastage and optimising its use. We have equipped your homes with water efficient fittings such as showerheads, taps, pipes, etc that can help you save water on a daily basis.

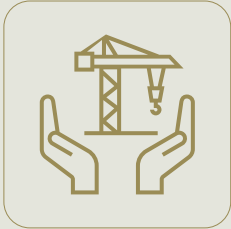
GREEN FEATURES :

ECO 

CONSTRUCTION

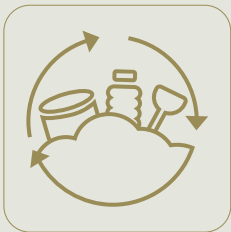
The ECO CONSTRUCTION is to maximise the usage of existing materials by recycling as well as incorporating the right eco-friendly products for a greener environment.

## RESPONSIBLE CONSTRUCTION



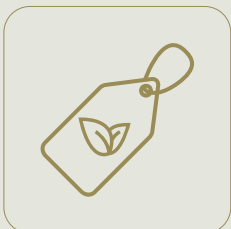
Through the right controls and plans, we've ensured that all construction activities carried out has minimal impact on the surrounding community and the environment. We take great care to keep our rivers and neighbourhoods clean.

## CONSTRUCTION WASTE RECYCLING



The common practice for disposing of construction waste is to dump it into landfills. At EcoWorld, we have taken a different approach by recycling waste materials such as paper, plastic, metal and timber to reduce the impact of the development as these materials can be a valuable resource.

## USING GREEN OR ECO-LABEL MATERIALS



We see the use of green or eco-labeled certified construction materials in our homes as the way to go forward. They are non-toxic, non-hazardous and harmless to the environment. Through this, we only use materials such as low VOC paint in your home which has non-chemical ingredients that will promote health and well-being.

GREEN FEATURES :

ECO

MASTERPLAN

The implementation of an ECO MASTERPLAN at the very beginning of a development is a conscious effort to attain a sustainable lifestyle.

## GREENSCAPES & WATERBODIES



We take pride in dedicating a large percentage of our developments to greenery and water areas such as gardens and lakes. We hope to create a cooling and visually pleasant environment for all to enjoy.

## PEDAL READY



Being able to move around in your neighbourhood without having to drive is not only convenient but it lowers the carbon footprint and is also a healthier option. We have designated cycling lanes that connect residential areas to nearby amenities such as shops and to community areas and parks within the development. Getting around is a breeze!

## GREEN MOBILITY



Besides being able to move around in your neighbourhood freely, we have also installed other alternative connectivity modes to nearby community amenities – a pedestrian only path. Look forward to leisurely strolls around the neighbourhood.

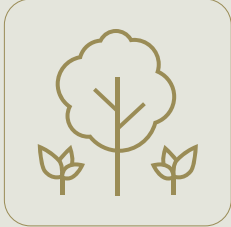
GREEN FEATURES :

ECO 

LANDSCAPE

The objective of ECO LANDSCAPE is to ensure that the right green approaches are in place to complement the space of landscape, provide positive benefits as well as to preserve the natural habitat as much as possible.

## NATIVE PLANTS



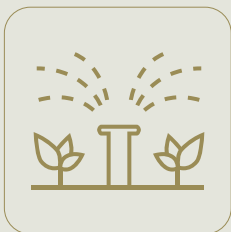
We believe in including native plants (local plants) in a development's environment as it not only provides greenery, but maintains the natural ecosystem around a neighbourhood. These 'locals' usually require less maintenance and have low water requirements.

## BIODIVERSITY



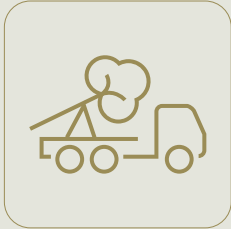
We feel that a development without flora and fauna lacks in character and beauty. In order to provide rich biodiversity, we have designed parks and rivers with plants that will attract suitable animal species such as birds, butterflies and other insects to our townships.

## LANDSCAPE IRRIGATION WATER



EcoWorld's developments are known for their beautiful greenery and landscaping. Instead of using treated quality water from the local water supply, we get our water through renewable sources such as ponds and lakes to water the plants in your neighbourhood. This allows for lower maintenance cost and has lesser impact on the overall environment.

## TREE PRESERVATION



We actively transplant existing or mature trees in efforts to preserve them within our development. This effort not only provide shade and an overall look of maturity of the landscape but also provides natural habitat of the ecosystem.

## COMPOSTING



We convert landscape waste into compost that can be used as fertilisers to keep landscapes healthy and beautiful. This will improve soil moisture by holding in water when there isn't enough, and prevent soil run-off when there is too much. This method is an eco-friendly alternative and sustainable source to nurture your growing plants.