



LAYAN GREEN PARK
& ECOLOGY



We're running the most dangerous experiment in history right now, which is to see how much carbon dioxide the atmosphere... can handle before there is an environmental catastrophe.



Elon Musk

We, the Layan Green Park team, do not want to waste time discussing this problem, we are using the time productively to solve it by implementing engineering and high-tech solutions!

MINIMIZATION OF THE NEGATIVE IMPACT

Green building is more beneficial and less harmful to the environment, and by preserving nature, we take care of ourselves, our children and future generations.

PROTECTION OF THE ENVIRONMENT

This is not just an idea, but also the reality we live in. Therefore, in the future, high-tech and energy-efficient facilities will be in greater demand compared to regular buildings. This guarantees competitiveness in the real estate rent and sale market to the owners.

REDUCTION OF THE UTILITY COST

The technologies used in the Layan Green Park project will reduce the consumption of electricity and water by 40%, which will save the the apartment owners money by reducing the utility bills during the operation of the building.

EDGE ADVANCED CERTIFICATION

THE LAYAN GREEN PARK is the first residential building in Thailand that is going to get EDGE certification.



COST REDUCTION
WITH WATER SAVING
SYSTEMS



COST REDUCTION
WITH ENERGY SAVING
SYSTEMS

EDGE (Excellence in Design for Greater efficiencies) from IFC is an international standard for green buildings, confirming the contribution to environmental sustainability. It includes a cloud platform for sustainability and utility costs calculation. EDGE was launched in 2014 with funding from the Swiss State Secretariat for Economic Affairs. Now it is supported by the UK government and exists in over 170 countries.

OUR PARTNERS IN OBTAINING GREEN BUILDING CERTIFICATION ARE:



ARDOR company specializes in consulting on sustainable design and the certification of green building. It was founded in 2005 and has built over 100 buildings. Rewarded by BCI Awards in the Top 10 Asian Architects in Vietnam both in 2009 and in 2015.



RDM is a design company that was founded in 2011. It has designed over 100 properties, including luxury hotels. The company will implement all the design requirements for the Layan Green Park.



[WATCH VIDEO:
THE PROFESSIONALS OPINION ON THE
LAYAN GREEN PARK TEAM CONTRIBUTION TO
THE ECOLOGY](#)

ENERGY SAVING SOLUTIONS



HEATING INSULATION FOR THE ROOF

Saving energy for constant cooling of top floors by protecting it from heating.



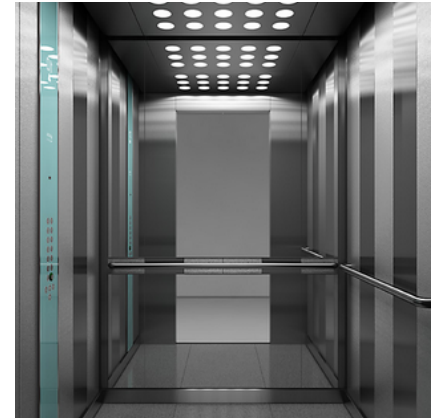
AUTOCLAVED AERATED CONCRETE WALLS

Q-Con block with low thermal conductivity allows user to save on cooling and air conditioning. Good sound insulation and no toxic substances.



«SMART HOME» SYSTEM

It allows easy control of the lighting in the apartment using your smartphone. Windows and balconies are equipped with sensors - when they are opened, the air conditioning is automatically turned off.



KONE ELEVATORS

Are using KONE EcoDisc - an innovative copper wrap system that reduces the amount of energy lost as heat.



AIR CONDITIONING SYSTEM

A central inverter air conditioning system is designed for each floor - it is an advanced control system for outdoor units, which allows changes the compressor engine speed and maintain the room temperature +/- 0.5 degrees, which will save up to 40% in electricity bills compared to conventional split systems.

ADDITIONAL SYSTEM BENEFITS:

1. The energy consumption of each air conditioner can be calculated in a centralized system
2. There are no external blocks on balconies and building facades
3. Allows to set the minimum temperature for the entire floor



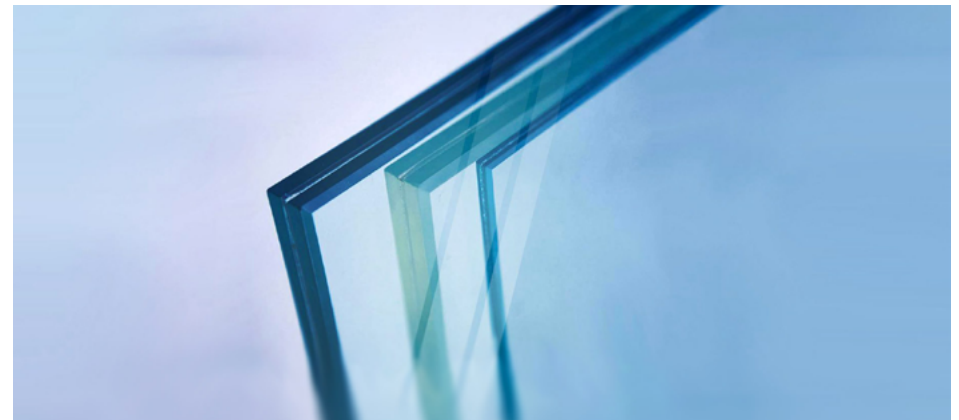
SOLAR PANELS

Converts solar energy into direct electric current which will partially provide electricity to the building.



INDOOR AND OUTDOOR LIGHTING

LEDs and motion detectors in public areas to reduce energy consumption.



LOW-E GLASS

UV-protected window glass to prevent the indoor air heating. Reduces the amount of energy used for cooling apartments and public areas.



**WATER PURIFICATION SYSTEM
POOLNOLOGIES.
NSF TESTED**

1. Works 30 times faster than chlorine.
2. Reduces the pump running time by more than 50%
3. Reduces energy consumption, water consumption and operating costs.
4. You can swim in beautiful, natural drinking quality water like in a mountain lake.
5. No more eye irritation.
6. No chlorine smell.
7. Suitable for people with asthma or eczema.
8. More cautious pool maintenance and pool equipment. No salt and chlorine corrosion



WATER PURIFICATION PROCESS:

Electronic Oxidation

Refreshes water in an environmentally friendly manner without the use of chemicals.

Copper Ionization

Purification with copper and silver ions making water clean enough to drink.

Ultrasound

Improves water quality and prevents scale formation.

WATER SAVING SOLUTIONS



SEPARATE SEWAGE SYSTEM

Separate sewage systems for showers and sinks, the water will go through several purification stages and will be used to irrigate the green spaces of the complex.



STORMWATER DRAIN

Rainwater will be collected and treated for further use.



WATER SAVING SANITARY FITTINGS

AirPower - tap mixers with an aerator, enrich water with oxygen and reduce its consumption by half. Installed in shower and sink. Automatic water shutdown and toilet double flush.



LAYAN GREEN PARK

ENVIRONMENTAL PROTECTION METHODS IN THE PROJECT MANAGEMENT

In addition to complying with the certification requirements and energy and water conservation, the Layan Green Park team is sorting trash, cleaning the beach and training staff. Our team is already trying to come up with some ideas for the most ecological management, and these are shown on the following slides



BUILDINGS VERTICAL LANDSCAPING

Vertical gardens on buildings convert carbon dioxide from the air into oxygen. It is an active measure to improve the quality of life of guests and apartment owners.

LOCALLY SOURCED KITCHEN CONCEPT

Cooking with local, seasonal ingredients, with a minimum of imported products. Most of the dishes are cooked from scratch at the hotel.

OWN BAKERY

We will manufacture baked goods, desserts, pasta and wheat products ourselves, without imports and frozen semi-finished products.

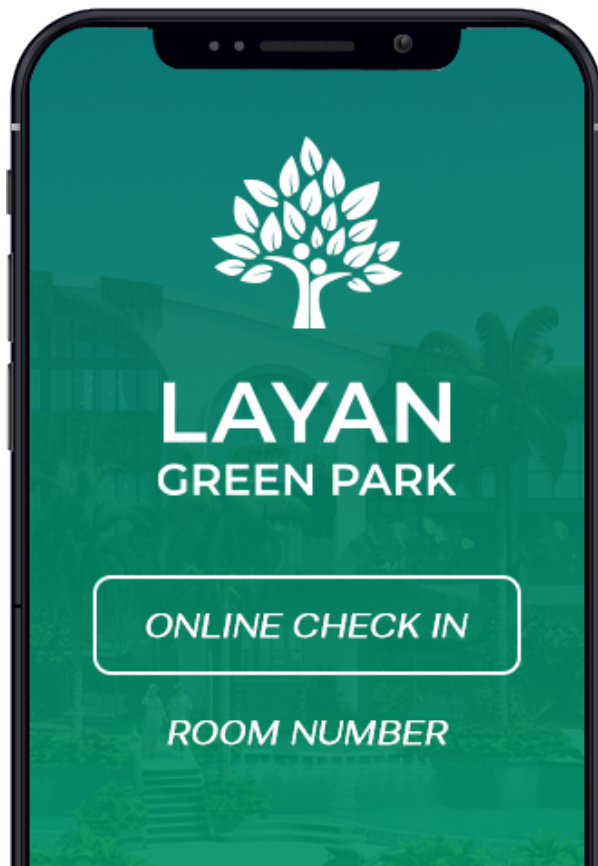
SUSTAINABLE PACKAGING

Usage of any kind of plastic will be minimized in restaurants.



PAPER SAVING

Digital check-in, book-keeping and information materials for guests in digital format. An application for smartphones and tablets for guests and owners.



WASTE MANAGEMENT

Waste sorting bins will be installed in the kitchens of the apartments and restaurants. The Layan Green Park staff will carry out secondary waste sorting and distribution. In addition, a number of Phuket companies will be responsible for waste disposal at places for further processing, like farms, factories and recycling centers.

CLEANING MACHINERY

To clean the territory independently and properly we will purchase a tractor.