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# Environment & Sustainable Development



## Sustainability in Coastal Construction

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# OBJECTIVES

## Environment – Sustainable Development



Understand the relationship between the environment and sustainable development

## Environmental situation



Know the current situation of resource degradation, environmental pollution and the impact of environmental pollution in Vietnam today

## Solving the problem of natural resources and environment



Aware of the Government's efforts in solving natural resources and environment issues, implementing relevant national programs for sustainable socio-economic development

# Green Building

- Green building (sustainable building) refers to a structure and using process that is environmentally responsible and resource-efficient throughout a building's life-cycle: from concept to design, construction, operation, maintenance, renovation, and demolition.



# Objective

- The common objective is that green buildings are designed to reduce the overall impact of the built environment on human health and the natural environment by:
- Efficiently using energy, water, and other resources
- Protecting occupant health and improving employee productivity
- Reducing waste, pollution and environmental degradation



# Objectives for sustainable buildings

- Resource efficiency
- Energy efficiency
- Pollution prevention (including indoor air quality and noisy abatement)
- Harmonization with the environment (including environmental assessment)
- Integration and systematic approaches (including environmental systems)



# What is Sustainable Construction



- Social progress, which recognises the needs of everyone
  - Effective protection of the environment
  - Prudent use of natural resources, and
  - Maintenance of high and stable levels of economic growth and employment



# Defining Sustainability



Sustainability can be defined using the following comparison:

## Traditional Criteria

Performance

Quality

Cost

## Sustainability Criteria

Resource depletion

Environmental degradation

Healthy environment

