

Eco-Architecture

Architecture that seeks to minimize the negative environmental impact of buildings.

Introduction

The building and construction of buildings use 35% of resources. Buildings account for almost half of greenhouse gas emissions and energy use. Greenhouse gases trap heat in the atmosphere and cause climate change. Reducing energy use in buildings is one of the most important ways to reduce humans negative environmental impact.

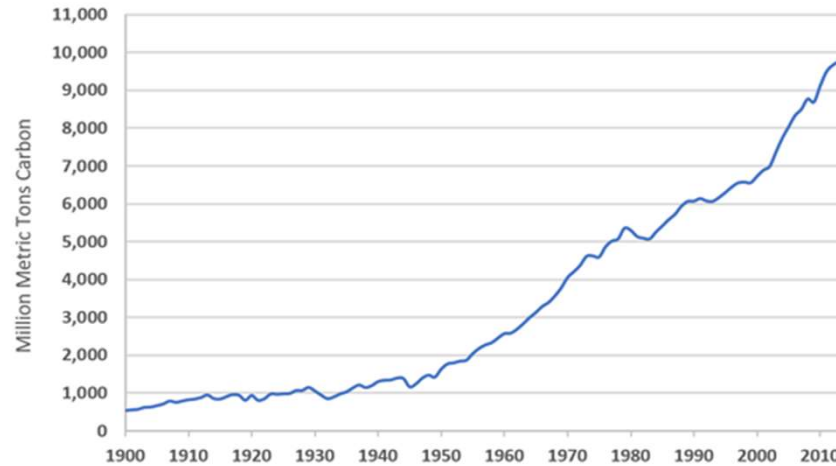


• Negative effects of greenhouse gases:

- Rising sea levels
- Flooding
- Hurricanes
- Heat waves
- Thawing glaciers
- Pandemics
- Pollution
- Respiratory Disease

- Sustainable architecture is not only more energy efficient, it's also healthier for inhabitants. Green architecture can promote and help maintain a cleaner environment.

Global Carbon Emissions from Fossil Fuels, 1900-2014



Methods

- Renewable energy systems
- Green building materials
- Energy efficiency
- Waste management
- Improving indoor air quality
- Stormwater management
- Rainwater harvesting
- Native landscaping
- Building orientation
- Local materials
- Building life cycle
- Responsible sourcing

Positive Results

- Lower utility costs
- Long term savings
- Reduced carbon emissions
- Reduced energy usage
- Water conservation
- Safer materials
- Improvement of people's health and wellbeing
- Improved productivity
- Efficiency
- Environmental protection
- Enhanced ecology

“It’s almost like a disaster has to happen to cause the world to start preparing.”

Michael Reynolds.. (2019). Michael Reynolds quotes

Conclusion

Humans negative impact on the environment has been detrimental. If we continue to ignore the issue of climate change and don't take action to improve the way we live we will hit a point of no return.

Implementing Eco-Architecture into our society is essential and can help protect the earth and the future and health of its inhabitants by significantly reducing carbon emissions and slowing down global warming.

Sustainable architecture holds the key to an environmentally positive future

