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HIGH-PERFORMANCE BUILDING DESIGN PROFESSIONAL - HBDP EXAM REFRESHER

ONLINE PROFESSIONAL COURSES LED BY THE
WORLD'S TOP SPECIALISTS

ONLINE TRAINING BY KRISHNAJI PAWAR

LEED AP(BD+C), GSAS CGP, GCP, ISO 14001

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MODULE

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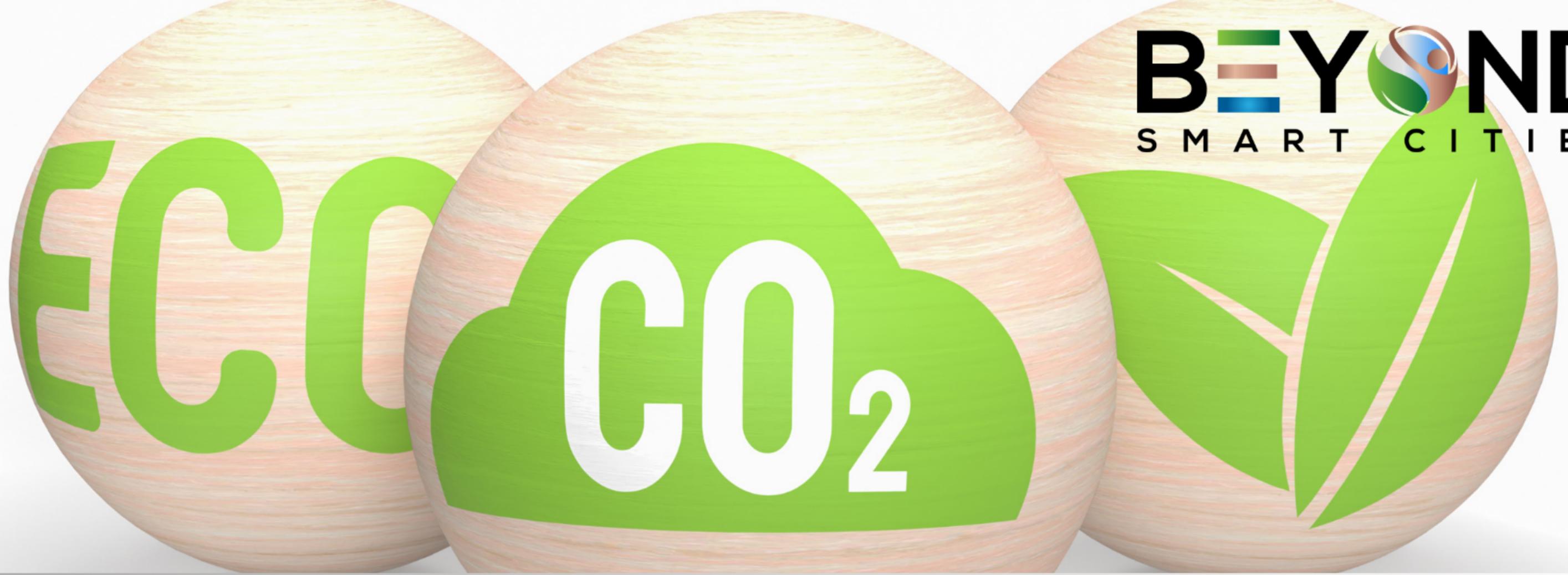
Alternative Energy & Carbon Reduction

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Carbon emissions from fossil fuel burning have led to increased atmospheric carbon dioxide levels, causing global warming and climate change. As a result, interest in alternative energy sources has surged.

Learning Objectives

- Introduction to High Performance Buildings
- Sustainability Concepts
- What is sustainable development?
- Sustainable Development: Definitions and Applications
- Sustainable Buildings
- Sustainable Transportation
- **Alternative Energy & Carbon Reduction**
- Environmental Improvement Programs and Rating Systems
- HVAC Processes



INTRODUCTION

- The burning of fossil fuels has led to increased carbon dioxide levels, contributing to global warming and climate change.
- Alternative energy sources, such as solar, wind, hydroelectric, geothermal, and nuclear energy, are becoming increasingly popular due to their cleaner and more sustainable methods of electricity generation.
- Solar power, a cost-effective and efficient alternative energy source, reduces reliance on fossil fuels and helps reduce carbon emissions.
- Wind power, a clean and renewable source, reduces carbon emissions and mitigates climate change impact.
- Hydroelectric power, produced by harnessing the energy of flowing water, provides a reliable and sustainable source of power.

ALTERNATIVE ENERGY AND CARBON REDUCTION +

- Geothermal power, generated from heat stored beneath the Earth's surface, provides a constant and reliable source of electricity without emitting carbon dioxide or other greenhouse gases.
- Nuclear energy, despite concerns about safety and waste disposal, can help reduce carbon emissions by generating electricity through nuclear fission.
- Investment in alternative energy sources is essential for a sustainable and environmentally friendly energy future.





LOCAL SUSTAINABLE POLICY PROGRAMS OVERVIEW

- Implement initiatives at the local level to promote sustainability.
- Address environmental, social, and economic issues to ensure the well-being of current and future generations.
- Incentivize the use of renewable energy sources to reduce dependence on fossil fuels and lower greenhouse gas emissions.
- Promote green building practices, such as LEED certification, to encourage energy-efficient and environmentally friendly buildings.
- Implement affordable housing programs to ensure residents have access to safe and affordable housing.
- These programs help communities thrive in a changing world, promoting harmony and sustainability.



IMPACT OF SUSTAINABLE DEVELOPMENT POLICIES

- Promotes economic growth, social inclusion, and environmental protection.
- Aims to balance economic prosperity, social equity, and environmental sustainability.

Key Impacts of Sustainable Development Policies

- Promotes renewable energy sources like solar, wind, and geothermal power.
- Reduces reliance on fossil fuels and decreases greenhouse gas emissions.



IMPACT OF SUSTAINABLE DEVELOPMENT POLICIES

Creates new job opportunities in the renewable energy sector.

- Promotion of Sustainable Agriculture Practices
- Encourages adoption of practices like organic farming, agroforestry, and crop rotation.
- Improves soil health, conserves water, and reduces use of chemical pesticides and fertilizers.

Enhances food security and livelihoods of farmers.

- Impact on Social Equity and Human Development
- Promotes access to education, healthcare, and basic services for all.
- Reduces poverty, inequality, and social exclusion.
- Creates more inclusive societies.



ENVIRONMENTAL IMPROVEMENT PROGRAMS AND RATING SYSTEMS

- Promotes economic growth, social inclusion, and environmental protection.
- Aims to balance economic prosperity, social equity, and environmental sustainability.

Key Impacts of Sustainable Development Policies

- Promotes renewable energy sources like solar, wind, and geothermal power.
- Reduces reliance on fossil fuels and decreases greenhouse gas emissions.





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THANK YOU

