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SMART CITIES



welcome to

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GRIHA CERTIFIED PROFESSIONAL

GRIHA CP OVERVIEW

ONLINE TRAINING BY KRISHNAJI PAWAR

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MODULE 2

How green buildings fight climate change

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GRIHA CERTIFIED PROFESSIONAL OVERVIEW

Building green reduces climate change impact, as Earth Day reminds us of our responsibility to protect the environment. Changes in building methods can help combat glacial loss, rising sea levels, and heatwaves.

Learning Objectives

- Introduction
- How green buildings fight climate change
- Sustainable Development and Green Buildings
- Organizational Fundamentals
- Green Rating for Integrated Habitat Assessment - GRIHA
- Advantages of GRIHA Certification
- Getting a GRIHA Certified Professional Credential
- Summary and Resources
- GRIHA CP Quiz_Test Your Knowledge!

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INTRODUCTION

- Building Operations Energy Use and Source: Credits in the Energy and Atmosphere category reduce energy use and award low-carbon energy sources.
- Renewables Selection: Credits in the Energy and Atmosphere category recognize diverse contract mechanisms for renewable energy procurement.
- Transportation Energy Use: Credits in the Location and Transportation category enable new buildings to improve land use patterns and position occupants to take advantage of public transportation.

GRIHA /LEED CREDIT CATEGORIES AND CLIMATE REPAIR

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- Materials-embodied Energy Use: Credits in the Materials and Resources category address a building's embodied carbon by targeting energy use and processes in the extraction, production, transportation, manufacturing, distribution, and disposal of materials and products.
- Water-embodied Energy Use and Source: Water Efficiency credits reduce the significant use of energy related to the treatment, processing, and distribution of water.
- Green Infrastructure and Sitting: Sustainable Sites credits focus on non-energy-related drivers of climate change through solutions such as green infrastructure and purposeful decisions on building location and siting.





CLIMATE IMPACT OF BUILDINGS



- 2020 and 2016 are the hottest years since the late 19th century, with human activity driving global warming.
- Architecture 2030 reports buildings account for nearly 40% of all greenhouse gas emissions.
- Green building can reduce climate change impact and build resilience.
- LEED v4.1 acknowledges the environmental impact of buildings and focuses on reducing embodied carbon.

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GREEN BUILDINGS AND CLIMATE IMPACT

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- Green buildings, including GRIHA - certified ones, reduce greenhouse gas emissions.
- They consider energy, water, indoor environmental quality, material selection, and location.
- Green buildings reduce landfill waste, enable alternative transportation, and encourage vegetated land and roofs.





VALIDATE YOUR SUSTAINABILITY KNOWLEDGE.



- A 2014 UC Berkeley study found that buildings built to LEED standards contribute 50% fewer GHGs due to water consumption, 48% fewer GHGs due to solid waste, and 5% fewer GHGs due to transportation.
- GRIHA credits encourage compact development and connection with transit and amenities, reducing transportation-related GHGs.
- Less water consumption and less material transport reduce fuel consumption.
- Green buildings can help combat climate change.

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