

CLIMATE CHANGE ADAPTATION AND SUSTAINABLE DEVELOPMENT THROUGH GREEN BUILDING TECHNOLOGY

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Abstract: The Construction sector is the largest global consumer of materials, and buildings are the sector with the largest single energy use worldwide. Consequently, buildings are also responsible for 19% of global greenhouse gas (GHG) emissions. The buildings accounts for 39% of CO₂ emissions in the United States per year, which is more than any other sector. Most of these emissions come from the combustion of fossil fuels to provide heating, cooling and lighting, and to power appliances and electrical equipment. By transforming the built environment to be more energy-efficient and climate-friendly, the building sector can play a major role in reducing the threat of climate change. The concept of low carbon emission green building is put forward under the ground that all people over the world is taking action to deal with climate change. Low carbon emission “green” or “sustainable” buildings use key resources like energy, water, materials, and land more efficiently than buildings that are just built to code. With more natural light and better air quality, efficient water collection and use - green buildings typically contribute to improved occupant’s health, comfort, and productivity. In this paper various green building feature are pointed out, which are new energy develop, green planning, efficient water and energy use.