



GREEN BUILDINGS DESIGN TO TACKLE GLOBAL CLIMATE CHANGE

CASE STUDY/INSIGHT

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Around one-third of global final energy consumption and large amount of total direct and indirect CO₂ emissions are from the buildings and the building construction sectors. Thus, various countries are taking significant efforts to reduce energy usage and emissions to make the buildings green and sustainable.

Green buildings are designed to reduce the overall impact of the built environment on human health and natural resources by (i) efficiently using energy, water and material resources, (ii) protecting occupant's health and improving employee productivity and (iii) reducing waste, pollution and environmental degradation. Green building combines both materials and processes to maximize efficiency, durability and savings.



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Components of Green Building includes (i) Energy Efficiency and Renewable Energy (ii) Water Efficiency (iii) Environmentally Preferable Building Materials and Specifications (iv) Waste Reduction (v) Toxics Reduction (vi) Indoor Air Quality and (vi) Smart Growth and Sustainable Development. To ensure that the above components are implemented effectively during new constructions, many national and international agencies and companies are providing their services.

Green building would contribute to mitigate the climate change while also improving resilience in our homes and communities. All of these significantly reduce the carbon footprint of buildings and occupants beyond what energy efficiency alone does.

