

Energy efficiency, when implemented strategically, uniquely reduces greenhouse gas (GHG) emissions associated with the built environment while simultaneously reducing life-cycle costs and maintaining ...

Buildings are responsible for 40% of global energy consumption and 33% of greenhouse gas emissions. Ensuring new buildings are sustainable and energy-efficient will be key to our efforts ...

Discover the most energy efficient home design strategies for 2025. Complete guide to passive house, net-zero construction, costs, and implementation.

Companies need to make buildings energy efficient to move towards a low-carbon world, but there are economic benefits of doing so too.

Energy-efficient buildings are defined as structures that maintain comfortable living conditions while minimizing energy consumption throughout their entire lifecycle, including construction, operation, ...

Addressing inefficient heating technologies and poorly insulated buildings is key in most advanced economies to accelerate efficiency progress. Space cooling is still a minor share of total demand, but ...

Decarbonization, electrification, efficiency and digitalization can revamp old buildings, make new builds zero-carbon ready and reduce operating costs.

Explore energy-efficient building design to tackle climate challenges and enhance occupant comfort while saving energy.

Improving the energy efficiency of buildings is critical to lowering energy costs, strengthening resilience to extreme weather events, improving ...

One of the most effective ways to enhance energy efficiency is retrofitting ageing buildings with modern equipment, control systems and smart technologies.

If we can improve the insulation and ventilation of new and existing buildings simultaneously, there will be positive results for both human health and energy consumption.

1. Natural ventilation Termite mound construction promotes natural air circulation, which has inspired architects and engineers to design buildings that keep their cool in high temperatures ...

Low-e glass decreases energy consumption in buildings and creates a better environment for occupants. But



# Energy efficient building

glass production raises sustainability concerns.

A green building incorporates preference for locally sourced materials with higher recycled contents and low embodied carbon, energy-efficient cooling systems, optimized insulation, ...

Learn what energy efficiency in buildings means and why it is important for sustainable development and climate change mitigation. Explore the main ...

Energy efficiency in architecture reduces our carbon footprint and provides significant benefits, including cost savings, ...

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