

How can the construction industry transfer energy to the industry

Why should construction companies switch to sustainable power sources?

Switching to sustainable power sources minimises the construction industry's use of traditional energy sources, which are notorious for relying on fossil fuels. The high energy demand for construction operations and machinery is also a testament to how the industry can scale back on excessive power use.

How do construction companies use energy?

Construction companies can create a farm and accumulate energy, storing it in generators for future operations. There are also airborne wind energy systems. Devices are flown in a crosswind direction to collect energy from the upper atmosphere. These systems can harvest energy and directly send it down a stationary turbine.

Is it possible to change the energy requirements of construction processes?

It is not exactly feasible to change the energy requirements of these processes. However, changing the source of energy can be a game-changer. Sustainable power can meet the construction industry's energy needs without affecting the world's supply.

Can China reconsider energy saving in the construction industry?

Theoretically, this study develops an integrated framework for an embodied energy assessment of the global construction industry by merging 31 Chinese regions into the complex global trading network. This provides a new global perspective for the Chinese government to reconsider their energy saving in the construction industry.

How much embodied energy does the construction industry use?

The average embodied energy use in the construction industry totals 1.74 Mtoe among regions in China and 1.21 Mtoe among regions worldwide. Fig. 4 shows the geographical distribution of the embodied energy use in the construction industry within China.

What role does the construction industry play in climate mitigation?

The construction industry, generating 40% of global carbon emissions, plays a pivotal role in climate mitigation. The IFC proposes adopting readily available technologies, emphasising the urgency for greener construction amid a global building boom. Read the original source



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Web: <https://www.solarcomplete.co.za/contact-us/>

Email: energystorage2000@gmail.com

WhatsApp: 8613816583346

