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COMPLETE ESG REPORTING

**INFOGRAPHIC**

# What will a Future Net-Zero Construction Project look like?

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..... 25%

**The Built Environment  
accounts for of the UK's  
Total Carbon Footprint**

The Construction and Built Environment Sectors will play a critical role in helping achieve the UK's Net-Zero Objectives.

But what might a **future net-zero construction** project look like?



### **Renewable Energy Infrastructure**

- Solar PV arrays on temporary offices or fencing.
- Small wind turbines for supplementary power.
- Use of hydrogen fuel cells where grid connection is unavailable.

## Electric and Hydrogen-Powered Machinery

- Excavators, cranes, dumpers, & generators are fully electric or hydrogen-powered.
- Charging stations powered by on-site renewables (solar/wind).
- Battery storage units for load balancing.

## Zero Diesel Policy

- No fossil fuels used for heating, lighting, or power generation.
- Use of HVO (Hydrotreated Vegetable Oil) in legacy machinery (transitional phase).

78%

**The Construction Leadership Council**  
have released a roadmap to help  
reduce Diesel use by **78%** by **2035**.



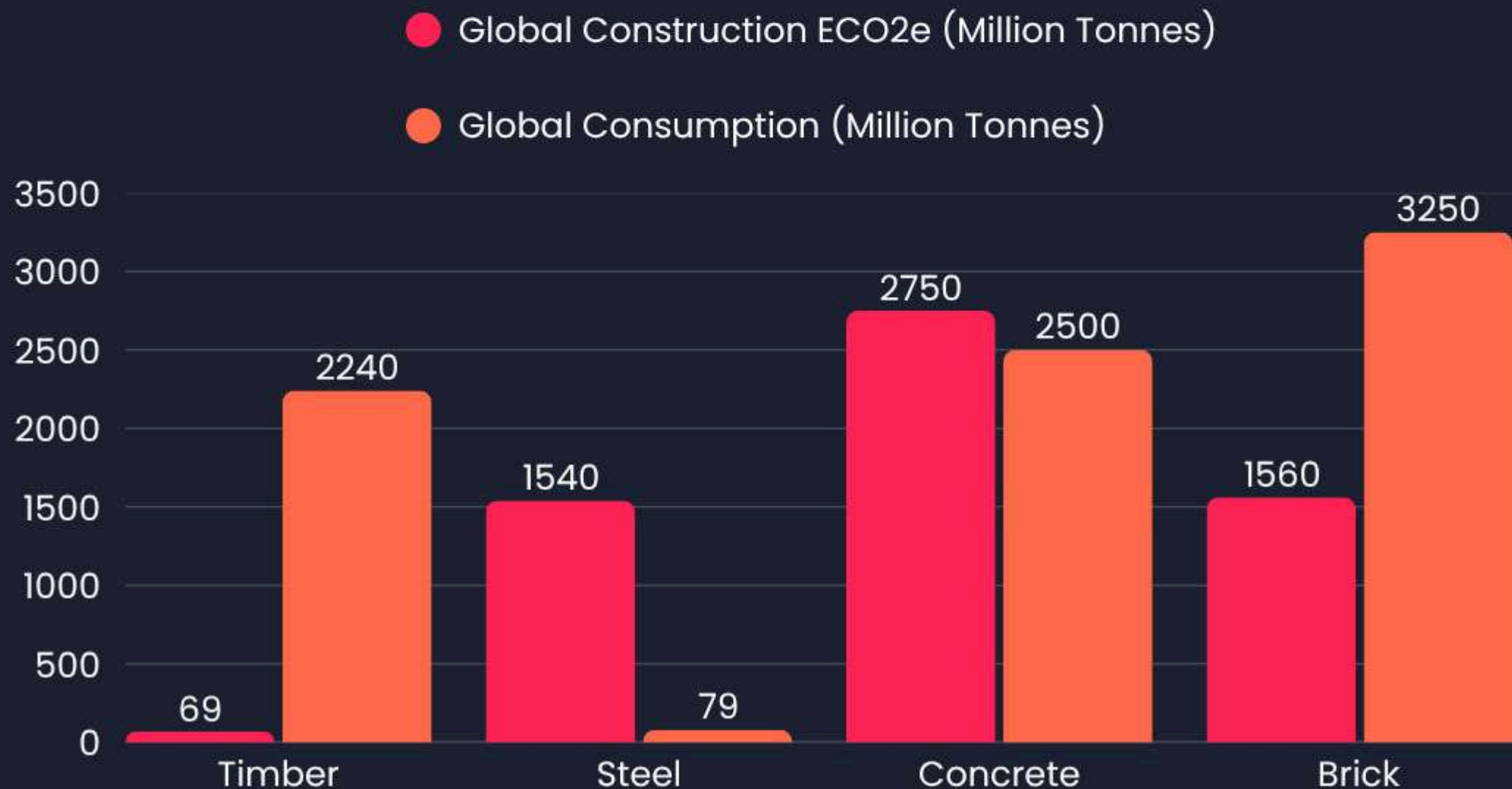


# 72%

**Steel** and **concrete** can account for as much as **72%** of the **embodied carbon** of a construction project.

## Material Efficiency and Circular Economy

- Design and build to achieve Net-zero targets
- Include Net-zero T&Cs in subcontractor work packages & supplier orders
- Digital material tracking (e.g., via BIM) to reduce waste.
- On-site material sorting and recycling stations.
- Preference for low-carbon concrete, recycled steel, and timber.



## Green Logistics

- Deliveries scheduled to reduce traffic and emissions (just-in-time).
- Use of EV lorries and vans for local transport.
- Construction consolidation centers to minimize on-site deliveries.

## Environmental Controls

- Dust and noise monitored in real-time with IoT sensors.
- Water use is minimized and recycled where possible.
- Green hoardings to offset carbon and improve air quality.

## Smart Site Cabins and Welfare Units

- Modular cabins with high insulation (passivhaus standard).
- Powered by solar panels or connected to battery storage.
- Smart meters and HVAC systems to optimize energy use.





## Digital Tools & Automation

- AI-powered site management platforms to optimize logistics and energy use.
- Drones for site surveys and progress tracking.
- Augmented Reality (AR) for clash detection and safety planning.

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## ARRANGE A DEMO

To learn more about **SustainIQ** and to arrange demo, visit **[sustainiq.com](https://sustainiq.com)** or scan the **QR code**.



## Worker Engagement and Training

- On-site carbon literacy training.
- Digital kiosks with real-time energy and emissions data.
- Incentives for green travel (bike schemes, EV parking).



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