

Definition

Net Zero Construction

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“Net Zero Construction (NZC) projects are new or existing retrofitted structures that seek to achieve a whole-life carbon (CO₂) approach by minimizing operational and embodied emissions through energy-efficient design and sustainable materials, such that residual energy are met by renewable sources, thereby ensuring that GHG emissions related to materials, construction, and operation, are zero or less for a sustainable energy environment”.. This holistic definition addresses both upfront CO₂ emissions and long-term energy usage by synergizing the entire construction process and the project lifecycle to achieve net zero goals by 2050.

Declarations

Potential competing interests: No potential competing interests to declare.