



What is a Net Zero Energy Building?

'Net Zero Energy buildings are those that are designed to have the lowest energy demand, high energy efficiency during its operation and thereafter its energy requirements are met through renewable energy sources'



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About The Rating System

- ❖ IGBC Net Zero Energy Buildings Rating is a voluntary & consensus-based.
- The objective of the Rating is to facilitate a holistic approach to make energy efficient buildings and fully powered by renewable energy sources.
- * The rating system evaluates buildings on a performance-based approach.
- The rating is evolved to be comprehensive and user-friendly.
- The programme is fundamentally designed to reduce the energy needs of a building and national priorities.





Methodology for Calculating Total Building Energy Consumption

Total annual energy Consumption(kWh) = Total Metered energy consumption(kWh)

Energy Generated by DG Sets(kWh)

Existing Onsite Renewable Energy Generation (kWh)

- Thermal energy consumption is presently not considered for estimation of total energy consumption.
- Energy consumption for electric vehicles need to be metered separately and discounted from the 'Total Building Energy Consumption'.

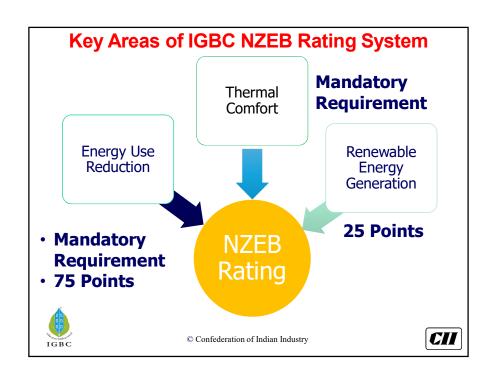


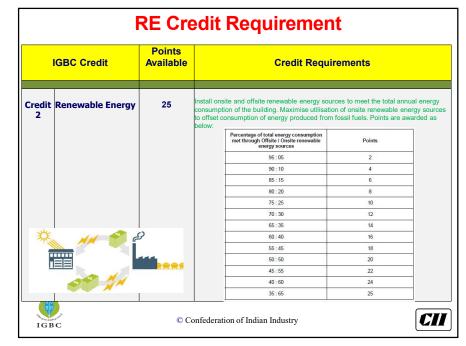
IGBC

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Levels of Certification		
Certification level	Recognition	IGBC Requirement
Net Zero Energy	National Excellence	Building meets all the energy requirements through renewable energy
Net Zero Energy Platinum	Global Leadership	Score minimum 80 points
Targeted Level of Rating	ENERGY CONSUMPTION	ENERGY PRODUCED ON SITE
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Benefits of NZEB Rating

❖ Benefits of adopting Net Zero Energy concept in a building are as below:

Tangible benefits:

- > Improvement in energy efficiency and hence reduction in annual energy consumption to the tune of about 25 -30% with respect to national baseline.
- > Overall reduction in energy cost of at least about 30%.
- > Reliable source of power supply if combined with energy storage devices.

Intangible benefits:

- > Compliance to national codes & standards on energy efficiency,
- > Increased day-lighting and enhanced thermal comfort for the occupants.



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Thank you!



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