Knowledge Centre

The Knowledge Centre is the technical core of the portal. It highlights the technical aspects of achieving a NZEB through passive strategies, efficient HVAC, efficient lighting, efficient equipment, and integration of renewable energy technologies.

Definitions & Policies

This section provides complete information about what constitutes an NZEB and NZEB definitions by boundary and metrics. The portal also keeps stakeholders abreast of innovative NZEB policies and initiatives contributing towards NZEB roadmaps globally.

2 Case Studies

This section features information on national and international success stories to inspire architects, developers, manufacturers, consultants and other stakeholders.

A NZEB Alliance

The NZEB alliance section is expected to facilitate the forging of an alliance of industry stakeholders to advance knowledge sharing and networking. This section hosts a discussion forum, expert columns, and membership information.

About the USAID PACE-D TA

The USAID PACE-D TA Program is a part of the overall PACE initiative, the flagship program under the U.S.- India Energy Dialogue. The five year program, implemented in collaboration with the Ministry of Power and Ministry of New and Renewable Energy, has three key components: energy efficiency (EE), renewable energy (RE) and cleaner fossil technologies. The Program's focus is on institutional strengthening, capacity building, technology pilot projects, innovative financing mechanisms and increasing the awareness of clean energy technologies.

The overall aim of the PACE-D TA Program is to accelerate the deployment and use of clean energy produced, expand U.S.- India trade and investment linkages, and facilitate exchange of information and best practices. The Program works with policy makers, regulators, state agencies, private companies, investors, clean energy associations, and other stakeholders to create an enabling environment to increase the uptake of EE and RE technologies in India.

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NET ZERO ENERGY BUILDINGS [NZEB]

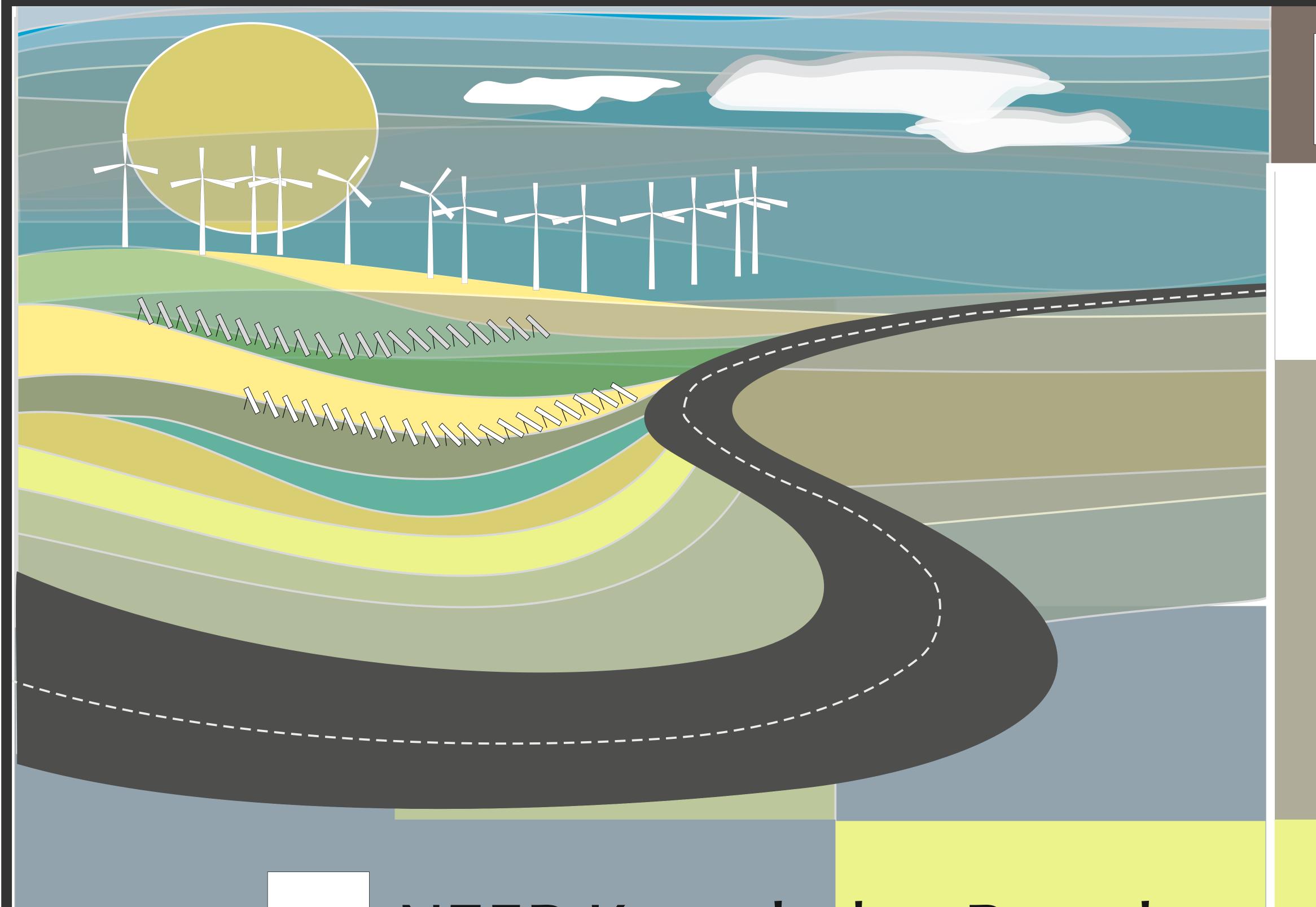
KNOWLEDGE PORTAL



www.nzeb.in







NZEB Knowledge Portal

The U.S.- India bilateral Partnership to Advance Clean Energy – Deployment Technical Assistance (PACE-D TA) Program is supporting the Bureau of Energy Efficiency in demonstrating the technical feasibility of the NZEB concept and promoting awareness about NZEBs in India.

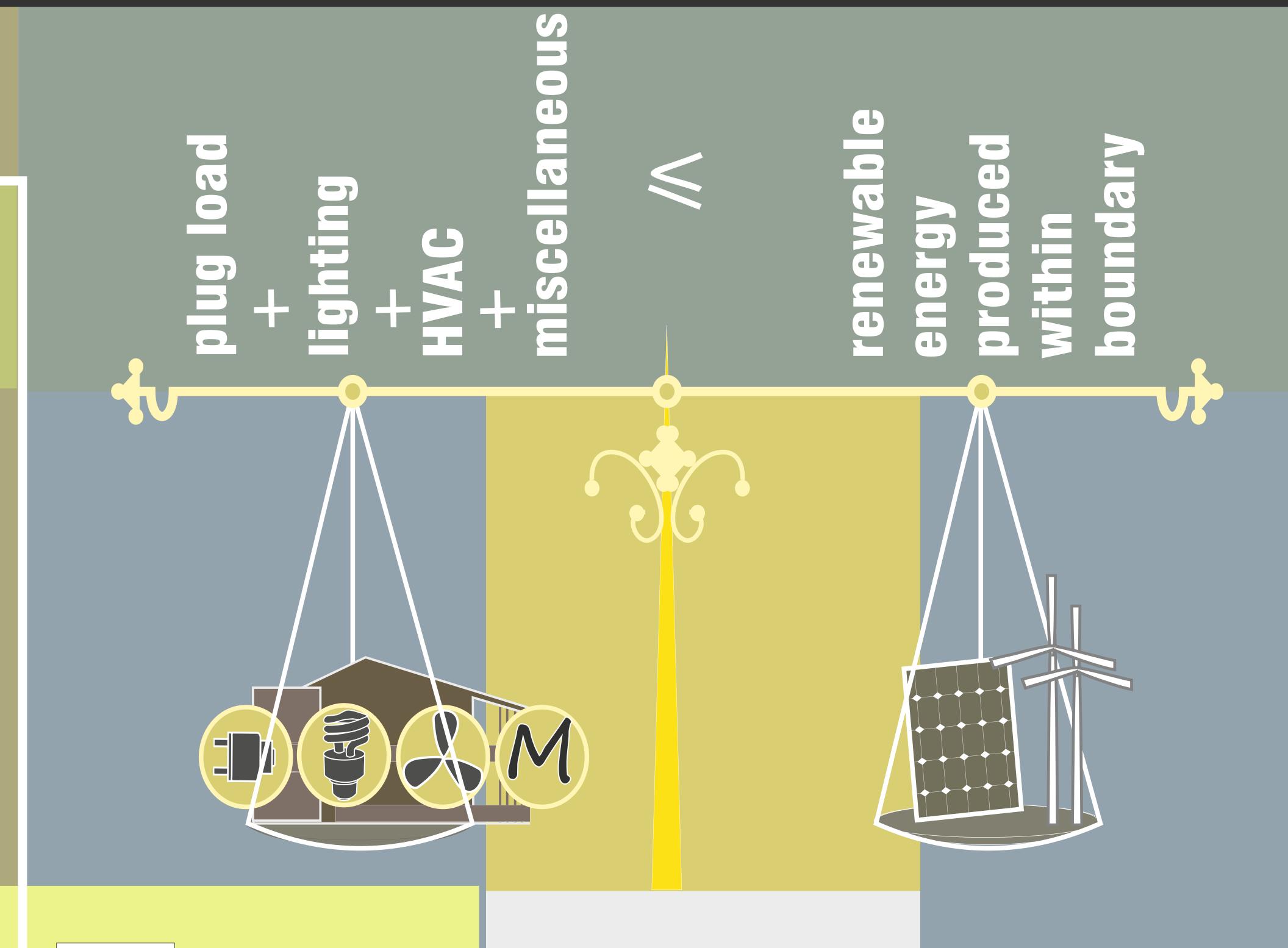
As a part of this initiative, the Program has developed a knowledge portal on NZEB to serve as a one-stop online platform for all information related to NZEBs. The portal is designed to serve the information needs of developers, end users, architects and engineers, policymakers, sustainability consultants, academia, manufacturers, and entrepreneurs. It provides detailed information about NZEB practices and policy programs in India and other countries.

Energy Use in Buildings

Buildings account for 33 percent of the total electricity consumption in India. An estimated 70 percent of the buildings stock required for 2030 is yet to be built. This formidable growth in the construction industry and the resultant energy demand will increase dependence on imported fuel, contribute to higher greenhouse gas emissions, and strain the country's fossil fuel dependent infrastructure.

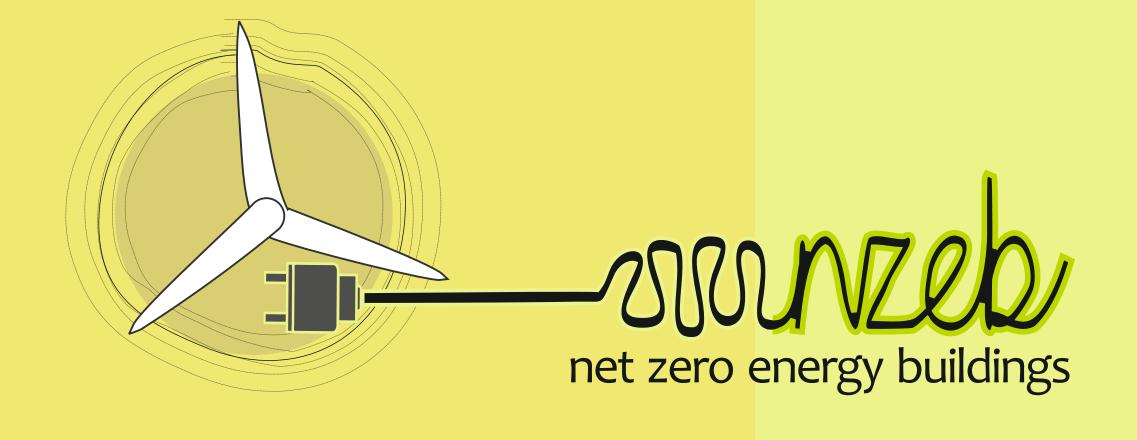
The climate change challenge in India has to be met with measures that go beyond business as usual and leapfrog to cutting edge innovation in the building sector. While implementing minimum energy performance standards for buildings will contribute towards reducing the increasing energy demand, NZEB goals are needed for increasing India's energy security.

These buildings offer a solution to sustainably meet the energy needs of growing Indian cities with the least climate change impact.



What are NZEBs?

NZEBs are buildings that, through renewable means, produce as much energy as they consume, when accounted for annually. They embody the highest level of energy efficiency and climate responsive design to first reduce energy demand, then meet the residual demand through renwable means.



towards net zer energy buildings