



Carbon reduction targets covering Scope 1 & 2 emissions by 2050

Tezpur University is committed to reduce the GHG emissions through a holistic approach and decided to set a Net Zero Target by 2060

Energy Consumption

By 2050, more than 90% of energy consumption will be aimed from Renewable sources of energy (Solar and Biomass). All rooftops will be used for SPV electricity.

Vehicle

By 2050, there will be comprehensive reduction of fossil-based energy consumption (>90%) for mobility (Green electricity and Hydrogen).

Thermal energy

Entire Scope II emission will be taken care by 2050 with substitution by green fuels (Bio-CNG). Solar thermal will replace LPG based cooking in Hostel in phase manner starting 2025.



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The salient points for the roadmap for the above are as below.

I. Energy Consumption

Enhancing the quota of renewable energy in the total energy mix consumed for different activities of the University. Currently 1 MW of renewable energy from solar PV is used. All the future building will be SPV integrated. Moreover, poly-generation including biomass-based power generation are on the roadmap by 2040. Energy efficient appliances are made mandatory to contribute the above mission.

II. Mobility within campus

About 80% of population rely on Bicycle for mobility within the campus spanned over more than 1 square km – aiming remaining 20% to follow to achieve near zero emission by 2030 for mobility within the campus.

III. Vehicle

University encourages energy conservation practices while using vehicles by its employees and staff. The replacement of traditional vehicles by E-mobility and Hydrogen fuelled vehicle are followed as per the National Government Policy. Through such practices, near net zero emission target by 2050 and net zero emission target by 2060 is set.

IV. Thermal energy

Cooking fuel (LPG) used by the eateries including domestic kitchen is anticipated to go for a major change (pipe gas) (2030), initially with available fossil-based LPG and subsequently augmenting with renewable fuels (such as bio-CBG *i.e.*, compressed biogas derived from biomasses including waste materials) aiming near net zero by 2050 and net zero by 2060.

The above roadmap will be reviewed periodically and updated accordingly.

**Approved by competent Authority.*