

POLICY FOR REDUCTION OF CARBON

VERSION I



ASSAM
DON BOSCO
UNIVERSITY

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1. INTRODUCTION

Assam Don Bosco University is committed to reduce greenhouse gas emission particularly emitted from oil consumption. The Eco Friendly University concept envisages a system with clear cut goals and priorities in the areas of clean energy. Located in Guwahati, the gateway to North East India, the University has created a campus with a commitment to environmental sustainability with clarity in its adoption and consumption of clean energy. The campus has a natural forest cover and is the refuge of varied endemic species of wildlife.

2. OBJECTIVES

- Targeting net zero greenhouse gas emissions across entire investment portfolio.
- Collaborations with government, industry and research partners for zero carbon emission.
- Divestment policy will be reviewed and updated periodically as public awareness, management techniques, and technologies change.

3. RESPONSIBILITIES

The main responsibility for implementation of this policy lies with the Board of Management. The Directors of Schools and the Heads of Departments are responsible for ensuring compliance with University Divestment Policy within their area of control. The Administrative Officers of the University will actively monitor the performance of Schools and Departments in the implementation of the aims and objectives of this Policy in the activities under their control. Whilst the University accepts the main responsibility for implementation of this policy, individuals have a very important role in co-operating with those responsible for implementing the policy.

4. ACTIONS

The University is committed on divestment from carbon intensive energy industries mainly oil– Sustainable Development Goal 7:

- The University has installed 320 KW grid-connected solar photovoltaic power plant by using the free rooftop spaces which is estimated to reduce the energy cost incurred by the University by 16-20% at an average on a monthly basis thus contributing the minimisation of the use of fossil fuel particularly coal and oil .
- Water reservoirs have been created utilising the natural streams coursing through the campus and the installation of a facility for generating micro hydel power up to 10 KW is under way. The University is engaged in research of other renewable sources of energy in the requirement of total energy mix and is engaged in research. For example “Optimization of DC microgrid for Renewable Energy Integration”, in which a dc microgrid for optimization of renewable power integration has been proposed, analysing

the possibility in optimizing the utilization of renewable energy sources within microgrids. Power from wind and solar generation forecast has been aggregated and it has been proposed to support the quantification of the operational reserve and maintain the equilibrium of the microgrid's real-time supply and demand.

- a. The university is committed to promote the use of electric vehicle inside the campus thereby reducing the oil consumption.
- b. Audit of energy consumption through oil utilization in the campus to be done every year and take necessary measure to reduce.
- c. The university is committed to support the R&D activities to minimise the conventional energy sources such as coal, oil and firewood.
- d. Transport: All 3 campuses of the University are residential and offer accommodation to both students and faculty at subsidised rates. Currently, over 50% of the student population avail of the hostel facilities available on campus, 10% live in the vicinity of the campus, 10% of the student population avail of the bus facility leased by the University and the remaining 20% avail of public transport or car pools. There are few students who cycle to University. However the hilly terrain of the University's campuses in Tapesia and Kharguli pose challenges for cycling. Faculty members stay on campus or prefer to opt for car pools. Therefore, the carbon footprint of the entire University is relatively less.
- e. Walkways and Pedestrian Friendly Roads: The campus areas have been designed with the concept of open spaces including roads, jogging trails, and lawns. The natural landscape has been preserved while accommodating the demand to use these venues actively for gatherings, ceremonies and recreation. There is a clear pedestrian connection through all campus roads and a system for a safe, mixed traffic system has been created by marking preferred cycling routes and adequate parking facilities.

5. SIGNIFICANCE

Design a comprehensive master plan for the campus to avoid use of resources with oil consumption and to insert eco-consciousness into every aspect of the University's life. To ensure the involvement of every entities of the university in the planning and implementation of the policy. To stabilize global warming at any level, GHG emissions must eventually reach net-zero levels.