



NEW HORIZON
COLLEGE OF ENGINEERING

ENVIRONMENTAL IMPACT

Eco-Friendly Transportation Report

Link - Refer P.No: 92 to 97

https://newhorizoncollegeofengineering.in/wp-content/uploads/2025/03/NHCE_Sustainability-report.pdf

GREEN AUDIT AND QUALITY AUDIT REPORT

ON

WATER AUDIT, ENERGY AUDIT,

WASTE MANAGEMENT AUDIT,

GREEN CAMPUS MANAGEMENT AUDIT

AND ENVIRONMENT AUDIT

OF

NEW HORIZON COLLEGE OF ENGINEERING

BELLANDUR MAIN ROAD, NEAR MARATHAHALLI,

BENGALURU – 560 103

2023-24



**NEW HORIZON
COLLEGE OF ENGINEERING**

New Horizon Knowledge Park, Ring Road, Marathalli

Autonomous College Permanently Affiliated to VTU, Approved by AICTE & UGC

Accredited by NAAC with 'A' Grade. Accredited by NBA



ECO ENERGIME ENGINEERS LLP

ENHANCING RESOURCE EFFICIENCY

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FOR MORE INFORMATION

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ACKNOWLEDGEMENTS

We are thankful to the management of **New Horizon College of Engineering, Bengaluru**, for the support, guidance and, giving us the opportunity to be involved in this very interesting and challenging assignment.

We would be happy to provide any further clarifications, if required, to facilitate the implementation of the recommendations.

We received full co-operation and support from the concerned personnel/ staff members of the college. They took key interest and gave valuable inputs during the course of study. We would like to thank:

Chairman – New Horizon Educational Institutions, Bangalore

And other Staff in personnel who have given full co-operation and support. They took a keen interest and gave valuable inputs during the course of study.



Certificate

This is to certify that M/s. Eco Energime Engineers LLP, Bengaluru has conducted **Green Audit** and **Quality Audit** that comprises of **Water Audit, Energy Audit, Waste Management Audit, Green Campus Management Audit, and Environment Audit** of "New Horizon College of Engineering, Bengaluru" during the **November 2023 to October 2024**.

The audit involves field visit, measurements and observations, verification of bills, log books, data base, maintenance registers and interview with staffs, and this gives an overview of the existing system. In an opinion and to the best of our information and according to the information given to us, said Quality Audit gives a true and fair view in conformity with auditing principles.

For Eco Energime Engineers LLP


Authorized Signatory



Smart Solutions for
Sustainable Tomorrow

Eco Energime Engineers LLP


EEELLP ACKNOWLEDGEMENT

EEELLP Team thanks the Management of **New Horizon College of Engineering, Bengaluru** for assigning this interesting work to us. We appreciate the cooperation extended to our team during the entire process.

Our special thanks to **The Registrar – Mr H N Suryaprakash & Team of colleagues** for giving us necessary support and inputs to carry out this very vital exercise.

We would like to thank Principal, the Head of Departments and staff members who were actively involved while collecting the data and conducting field measurements.

For Eco Energime Engineers LLP


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DISCLAIMER

The audit team has prepared this report for **New Horizon College of Engineering, Bengaluru** based on input data submitted by the representatives of College complemented with the best judgment capacity of the expert team.

While all reasonable care has been taken in its preparation, details contained in this report have been compiled in good faith based on information gathered.

It is further informed that the recommendations are arrived following best judgments and no representation, warranty or undertaking, express or implied is made and no responsibility is accepted by Audit Team in this report or for any direct or consequential loss arising from any use of the information, statements or forecasts in the report.

For Eco Energime Engineers LLP


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8. ENVIRONMENT AUDIT (CARBON FOOTPRINT ANALYSIS)

8.1 Facility Description

The carbon footprint is "the total amount of greenhouse gas (GHG) emissions caused by an organization, event or product". Global warming and climate change are the foremost environmental challenges facing the world today. It is our responsibility to minimize the consumption of energy and hence reduce the emissions of greenhouse gases.

To analysis the carbon footprint, transportation details of students and staff are collected as below:

1. Whether college provides transport facility for staff and students (Yes/No)? Yes,
2. Number (or Percentage) of staff using transport services provided by college: 10%
3. Number (or Percentage) of students using transport services provided by college: 5%
4. Number (or Percentage) of Staff using public transport: 40%
5. Number (or Percentage) of Staff using Bike: 40%
6. Number (or Percentage) of Staff using Car: 10%
7. Number (or Percentage) of students using public transport: 60%
8. Number (or Percentage) of students using Car: 2%
9. Number (or Percentage) of students using Bike: 33%

8.2 Best Practices Implemented for Environment Conservation

8.2.1 Awareness campaign on environment conservation

Management has taken steps to create awareness among students and staff regarding:

- Creating awareness campaigns on Environment Conservation
- Awareness campaigns on avoiding use of plastics

Environment awareness drawing competition is been conducted for the students. The competition winner's poster is displayed in the college notice board and recognized by the management. Figure 8.1 depicts the environment awareness competition poster displayed in notice board.



Figure 8-1: Environment Awareness Competition Poster displayed in notice board

8.2.2 Encouraging for usage of electric vehicles

The institution management is recommending and encouraging the staff and students to use the public transport and electric vehicles, to reduce the carbon foot prints.

Some of the students coming to college are Electric bikes. During audit pictures of electric bikes are taken and the same is given in figure 8-2.



Figure 8-2: Students using Electric Bikes

8.2.3 Color Code Bins

Waste collection bins of different colours Blue, Green and Red are kept in all the floors in each block. The self explanation poster helps the students/ staffs to dispose the waste according to the category in the relevant waste collection bins. The waste collection bins picture is shown in figure 8.3 and the self explanation poster is show in figure 8.4 respectively.



Figure 8-3: Waste Collection Bins



Figure 8-4: Poster for waste collection bins

8.2.4 Posters on Plastic Ban

Usage of single use plastic is banned inside the college premises and campus areas. Posters are placed for ban of plastic; the same is given in figure 8.5.

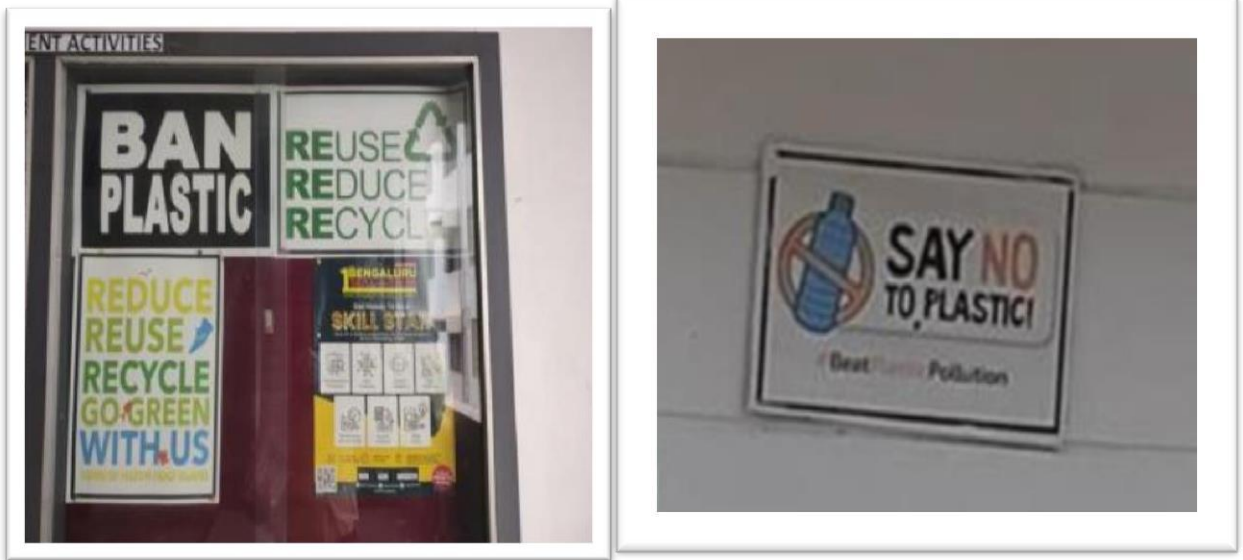


Figure 8-5: Posters for Plastic Ban

Management have installed digital panels to reduce the marketing waste such as banners and flexes.

8.3 Recommendations on Carbon Footprint Analysis

During the study, there was continuous interaction between the audit team, college engineers and staff members to ensure that the suggestions made are realistic, practical and implementable.

- Recommend staff to use car-pooling system
- Recommend students and staff to use public transport system
- Recommend students and staff to use bicycle
- Recommend staff and students to use electric vehicles
- Use of Display Boards to conserve fuel and the use of bicycle.