



Anjuman-I-Islam's
INSTITUTE OF HOSPITALITY
MANAGEMENT

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MAHARASHTRA, INDIA

ALTERNATE SOURCES OF
ENERGY AND ENERGY
CONSERVATION MEASURES

2022-2023

PREPARED BY
QUALITY CARE ALLIANCE

OBSERVATIONS OF THE ENERGY AUDIT

- a) College is procuring LED lights and electrical equipment with star ratings and followed for purchasing green equipment, equipment star rating and eco-friendly materials.
- b) Use of energy saving bulbs(Compact Flore scent light/LED lights)
- c) Regular maintenance of electrical system
- d) Maximum Use of daylighting system
- e) Maximum Use of energy efficient equipment

SYSTEMS STUDIED DURING THE ENERGY AUDIT

1. Lighting fixtures were verified physically.
2. Installation of energy efficient lighting systems were verified.
3. Installation of safety systems were verified
4. Installation of power backup systems (generators and UPS) were verified on the aspect of maintenance and consumption.
5. Electricity consumption through the BEST bills was analyzed.
6. The energy conservation awareness among the stakeholders for optimum use of electricity and its savings were reviewed.

Calculation of Carbon Footprint at AIIHM MUMBAI with respect to electricity usage

The Carbon footprint calculation can be conducted based on the stage of calculation as stated in www.carbonfootprint.com, which is the sum of electricity usage per year.

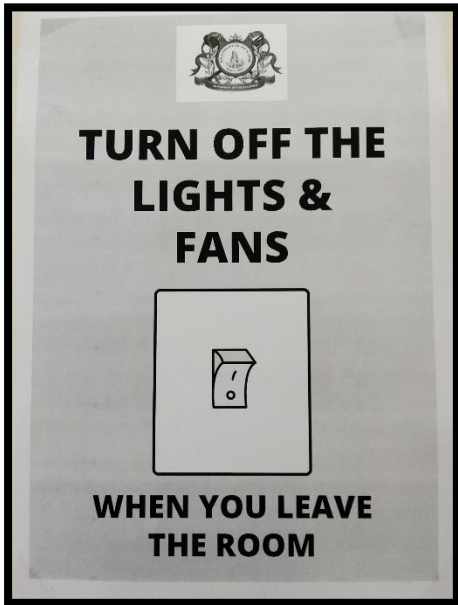
$$\begin{aligned} &\text{The CO}_2 \text{ emission from electricity} \\ &= (\text{electricity usage per year in kWh}/1000) \times 0.84 \\ &= (4304668.8\text{kWh}/1000) \times 0.84 \\ &= 3615.92 \text{ metric tons} \end{aligned}$$

Notes:

Electricity usage per year = 4304668.8 kWh
0.84 is the coefficient to convert kWh to metric tons.

ENERGY CONSERVATION OBSERVATIONS

- Transformer, Generators and UPS are protected properly with fencing and kept awareness boards on 'Dangers' and 'Warnings'.
- Most of places, sign board of 'Switch ON' and 'Switch OFF' are kept towards saving energy measures to the stakeholders.
- Electrical wires, switch boxes and stabilizers are properly covered without any damage which will cause any problems to the staff and student members.
- Replaced old generation computers and TVs with LED monitors.
- Use of star rated equipment on campus.



Conscious thought about energy conservation is inculcated in the minds of students with the display of switching off electrical devices when exiting the class. Additionally, the campus maintains the key rack which stocks the specially made AC Keys. Every faculty takes the keys with them when entering the class and uses it to open the AC Cabinet at the beginning of the lecture. In the AC Cabinet the AC remote is stocked to switch on the AC's. Post lecture the AC is again switched off and the cabinet is locked again.

