

Report
On
Green Audit
At
Prerana Education Society's Shree Pandharinath Arts and
Commerce College, Narkhed, Dist- Nagpur
(Year 2023-24)



Prepared by
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Executive Summary

Green Audit of Prerana Education Society's Shree Pandharinath Arts and Commerce College, Narkhed, Dist- Nagpur is conducted by Nutan Urja Solutions, Pune. Based On the audit field study, following important points can be presented.

1. Present Energy Consumption

Prerana Education Society's Shree Pandharinath Arts and Commerce College, Narkhed, Dist- Nagpur uses Electrical Energy as the source of Energy for various equipment in the college campus. In the following Table, we present the details of Energy Consumption.

Table no 1: Details of energy consumption

Sr no	Parameter	Energy consumed, (Units)	CO2 Emission (MT)
1	Maximum	572	0.5
2	Minimum	227	0.2
3	Average	388	0.3
4	Total	4,654	3.7

2. Various Measures Adopted for Energy Conservation

1. Usage of STAR Rated ACs at new installations
2. Usage of LED lights at some indoor locations
3. Usage of LED Lights for outdoor lighting.

3. Rain Water Harvesting

The College has installed the Rainwater harvesting project, to reduce dependency on municipal corporation water supply.

4. Waste Management

The College has already installed a Bio composting Plant, wherein, the bio-degradable waste is composted & is used as fertilizer for the garden.

The internal communication is through emails and there is hardly any generation of e-Waste in the premises.

5. Notes and Assumptions

1. Daily working hours-10 Nos

2. Annual working Days-250 Nos
3. Average Rate of Electrical Energy : **Rs 11/- per kWh**

Abbreviations

CFL	:	Compact Fluorescent Lamp
FTL	:	Fluorescent Tube Light
LED	:	Light Emitting Diode
V	:	Voltage
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1.1 Objectives

1. To study present level of Energy Consumption
2. To Study the present CO₂ emissions
3. To assess the various equipment/facilities from Energy efficiency aspect
4. To measure various Electrical parameters
5. To study Scope for usage of Renewable Energy
6. To study various measures to reduce the Energy Consumption

1.2 Audit methodology

1. Study of connected load
2. Study of various Electrical parameters
3. To prepare the Report with various Encon measures with payback analysis

2. Study of Electrical Energy Consumption

In this chapter, electricity bills are studied for the analysis of electrical energy consumption.

Table no 2.1: Summary of electricity bills

No	Month	Energy (kWh)	Bill Amount (Rs)
1	Jul-24	441	4,542
2	Jun-24	572	6,178
3	May-24	362	4,054
4	Apr-24	361	4,332
5	Mar-24	294	3,851
6	Feb-24	261	3,002
7	Jan-24	238	2,592
8	Dec-23	227	2,315
9	Nov-23	473	4,868
10	Oct-23	507	5,476
11	Sep-23	474	5,309
12	Aug-23	444	4,992
	Total	4,654	51,510

Variation in energy consumption is as follows,

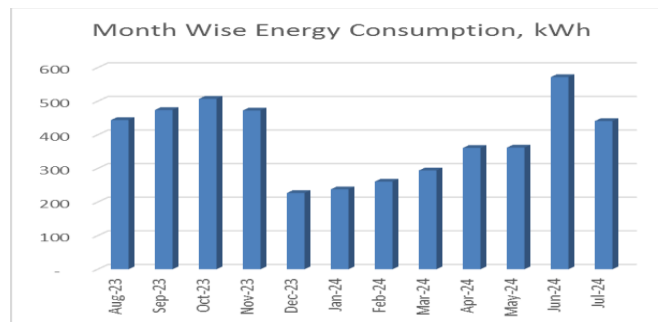


Figure 2.1: Month wise energy consumption

Monthly variation in electricity bill is as follows,

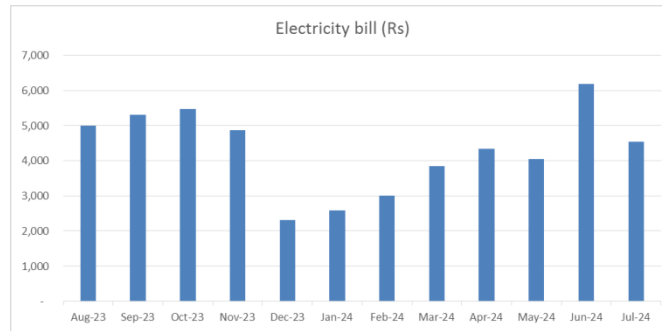


Figure 2.2: Month wise electricity bill

Key observations of electricity bill are as follows,

Table no 2.2: Key observations

Sr no	Parameter	Energy consumed, (Units)	CO2 Emission (MT)
1	Maximum	572	0.5
2	Minimum	227	0.2
3	Average	388	0.3
4	Total	4,654	3.7

3. Carbon Foot printing

1. A Carbon Foot print is defined as the Total Greenhouse Gas emissions (CO₂ emissions), emitted due to various activities. In this we compute the emissions of Carbon-Di-Oxide, by usage of the various form of Electrical Energy used by the College for performing its day to day activities

2. Basis for computation of CO₂ Emissions:

The basis of Calculation for CO₂ emissions due to Electrical Energy is as under

- 1 Unit (kWh) of Electrical Energy releases **0.8 Kg of CO₂** into atmosphere.

Based on the above Data we compute the CO₂ emissions which are being released in to the atmosphere by the College due to its Day to Day operations

We herewith furnish the details of various forms of Energy consumption as under

Table 3.1: Month wise Consumption of Electrical Energy & CO₂ Emissions

No	Month	Energy Consumed, kWh	CO ₂ Emissions, MT
1	Jul-24	441	0.35
2	Jun-24	572	0.46
3	May-24	362	0.29
4	Apr-24	361	0.29
5	Mar-24	294	0.24
6	Feb-24	261	0.21
7	Jan-24	238	0.19
8	Dec-23	227	0.18
9	Nov-23	473	0.38
10	Oct-23	507	0.41
11	Sep-23	474	0.38
12	Aug-23	444	0.36
	Total	4,654	3.72

In the following Chart we present the CO₂ emissions due to usage of Electrical Energy.

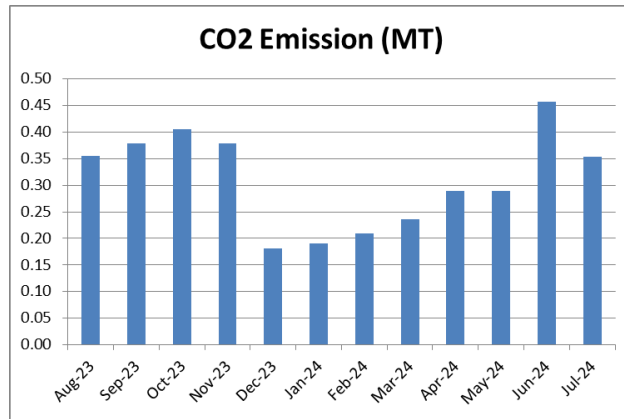


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4. Study of Rain Water Harvesting

The College has already installed Rain Water Harvesting project, wherein the rain water falling on the terrace is collected and through pipes it is fed to underground Water Storage tank. This stored water is then reused for domestic purpose.

Photograph of Rain Water Harvesting pipe



5. Study of Waste Management

5.1 Solid Waste Management

The College has already installed a Bio composting Plant, wherein, the bio-degradable waste is composted & is used as fertilizer for the garden.

Photographs of Bio Composting Storage Tanks:



5.2 e-Waste Management

The internal communication is through emails and hence there is hardly any generation of e-Waste in the premises.

6. Study of Green Practices

6.1 No of students who don't use own Vehicle for coming to Institute

Out of total students coming to Institute, about 60% students use own Automobile.

6.2 Usage of Public Transport

During the Students transport study, it was revealed that the local students who are residing near areas make use of Public Transport like State Transport buses, local sharing type auto rickshaws. Some students use bicycles. Institute encourages students to not to use automobiles.

6.3 Pedestrian Friendly Roads

The Institute has well defined pedestrian foot paths as to facilitate the easy movement of the students within the campus.

Photograph of Road within campus



6.4 Plastic Free Campus

The Institute is an active participant in the Government of India's most prestigious project of SWATCHH BHART ABHIYAN. The Institute has displayed boards in the Campus, to make the campus plastic free. Various measures adopted for this purpose are as follows

- Installation of Separate waste bins for Dry waste & wet waste
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The internal communication of the Institute is through the Internet. There are hardly any day to day operations, where printing is required.

6.6 Green Landscaping with Trees and Plants

The Institute has beautiful maintained Garden.

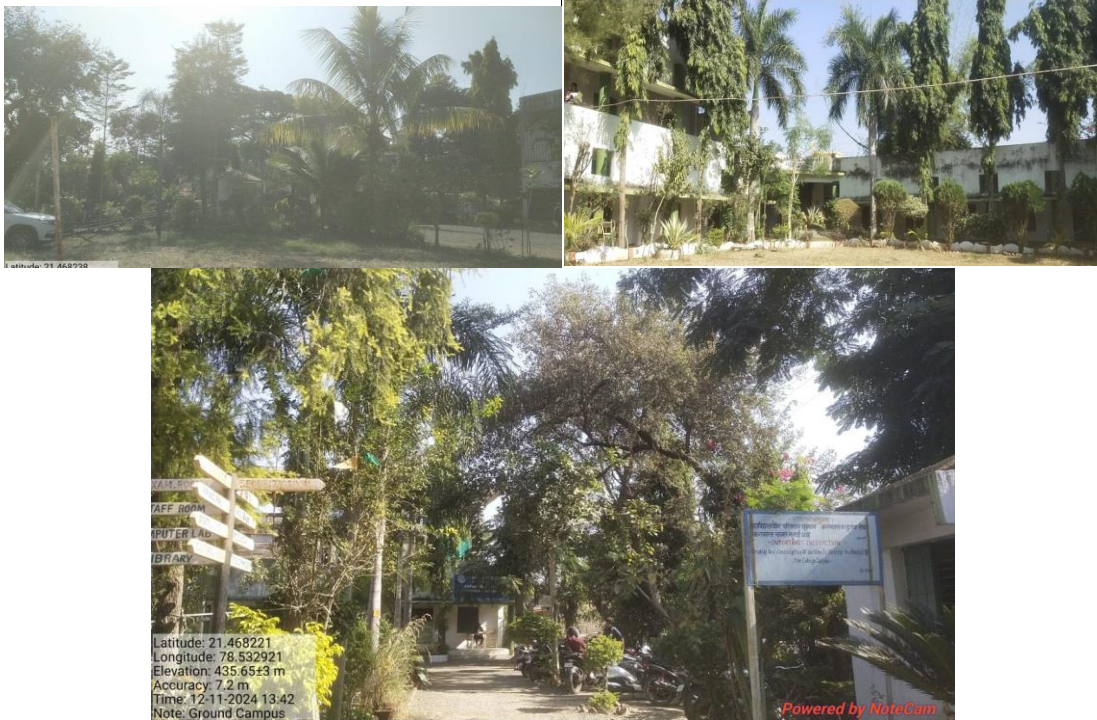


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Sr no	Parameter	Energy consumed, (Units)	CO2 Emission (MT)
1	Maximum	804	0.6
2	Minimum	260	0.2
3	Average	384	0.3
4	Total	4,611	3.7

2. Various Measures Adopted for Energy Conservation

1. Usage of STAR Rated ACs at new installations
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No	Month	Energy (kWh)	Bill Amount (Rs)
1	Jun-23	370	4,131
2	May-23	303	3,320
3	Apr-23	276	3,007
4	Mar-23	338	3,310
5	Feb-23	374	3,403
6	Jan-23	307	3,131
7	Dec-22	260	2,678
8	Nov-22	345	3,726
9	Oct-22	495	5,544
10	Sep-22	374	4,488
11	Aug-22	365	4,782
12	Jul-22	804	8,700
	Total	4,611	50,220

Variation in energy consumption is as follows,

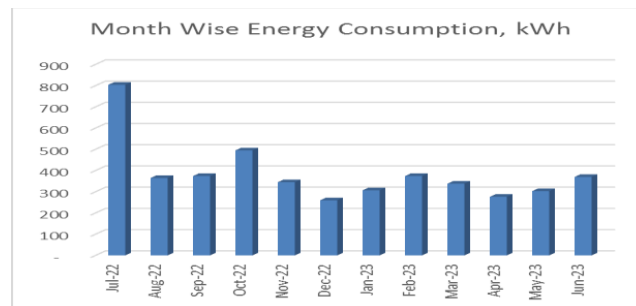


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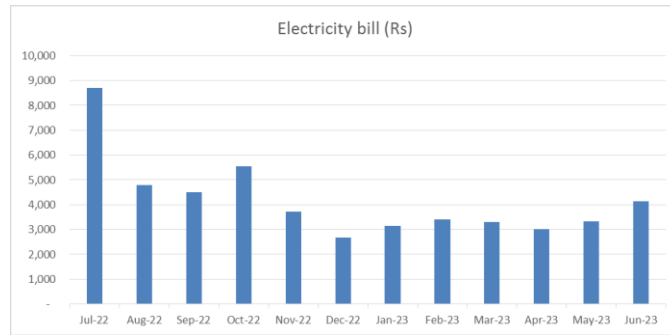


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8	Nov-22	345	0.28
9	Oct-22	495	0.40
10	Sep-22	374	0.30
11	Aug-22	365	0.29
12	Jul-22	804	0.64
	Total	4,611	3.69

In the following Chart we present the CO₂ emissions due to usage of Electrical Energy.

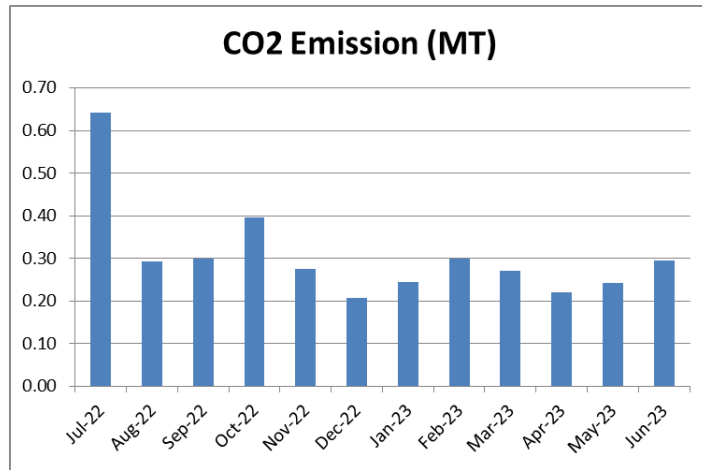


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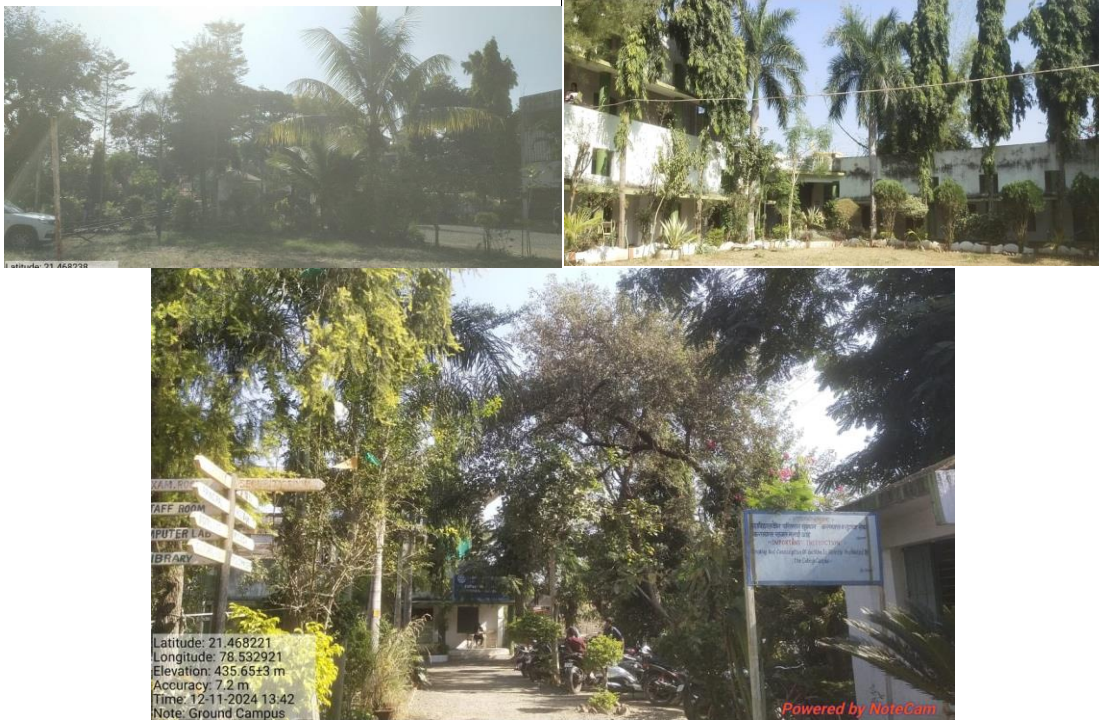


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4	Mar-22	223	2,505
5	Feb-22	215	3,053
6	Jan-22	153	2,341
7	Dec-21	186	1,823
8	Nov-21	573	5,386
9	Oct-21	189	1,928
10	Sep-21	172	1,968
11	Aug-21	170	1,957
12	Jul-21	185	2,142
	Total	3,375	37,454

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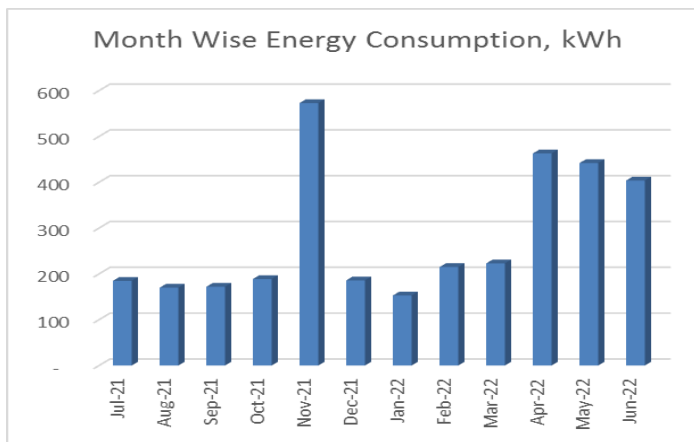


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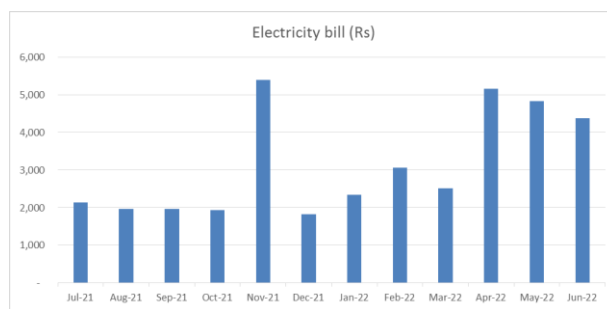


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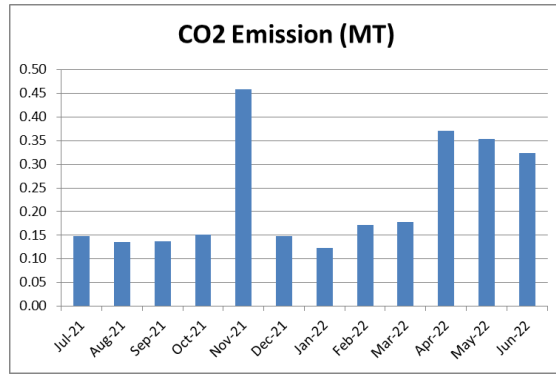


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6. Study of Green Practices

6.1 No of students who don't use own Vehicle for coming to Institute

Out of total students coming to Institute, about 60% students use own Automobile.

6.2 Usage of Public Transport

During the Students transport study, it was revealed that the local students who are residing near areas make use of Public Transport like State Transport buses, local sharing type auto rickshaws. Some students use bicycles. Institute encourages students to not to use automobiles.

6.3 Pedestrian Friendly Roads

The Institute has well defined pedestrian foot paths as to facilitate the easy movement of the students within the campus.

Photograph of Road within campus



6.4 Plastic Free Campus

The Institute is an active participant in the Government of India's most prestigious project of SWATCHH BHART ABHIYAN. The Institute has displayed boards in the Campus, to make the campus plastic free. Various measures adopted for this purpose are as follows

- Installation of Separate waste bins for Dry waste & wet waste
- Usage of paper tea cups in the Institute canteen
- Display of boards in the campus for Plastic Free campus

6.5 Paperless Office

The internal communication of the Institute is through the Internet. There are hardly any day to day operations, where printing is required.

6.6 Green Landscaping with Trees and Plants

The Institute has beautiful maintained Garden.



Figure 6.1: Beautiful maintained Garden of college