

 <p>शिवजी विद्यापीठ कोल्हापूर ज्ञानमेवामृतम् Estd. 1962 NAAC 'A++' Grade With CGPA 3.52</p>	<p>SHIVAJI UNIVERSITY, KOLHAPUR DEPARTMENT OF ENVIRONMENTAL SCIENCE</p> <p>Vidyanagar, Kolhapur - 416 004, Maharashtra, India. Tel- 0231-2609304 / 9333, Gram -UNISHIVAJI, Fax -0091-0231- 2691533/ 2333 E-mail- envsc@unishivaji.ac.in</p>	
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SU/PG/ENV/

Date : 27/03/2023

Carbon Emission Report of Shivaji University

Year: 2022-23

(In the form of CO2 equivalent)

Sr. No.	Content	Consumption		CO ₂ - eq Emission (kg)	CO ₂ - eq Emission (tonnes)
		Month	Consumption (l)		
1	Scope I (Total fuel consumption for Diesel Generators on campus)	Jun-22	300	792	0.79
		Jul-22	230	607.2	0.61
		Aug-22	90	237.6	0.24
		Sep-22	360	950.4	0.95
		Oct-22	820	2164.8	2.16
		Nov-22	310	818.4	0.82
		Dec-22	130	343.2	0.34
		Jan-23	230	607.2	0.61
		Feb-23	100	264	0.26
		Mar-23	30	79.2	0.08
		Apr-23	0	0	0.00
		May -23	680	1795.2	1.80
		Total	3,280	8,659.2	8.66

2	Scope II CO ₂ emission: Total Electric Energy consumption	Month	Consumption in kWh	CO ₂ - eq Emission (kg)	CO ₂ - eq Emission (tonnes)
		Jun-22	208525	161398.4	161.40
		Jul-22	186510	144358.7	144.36
		Aug-22	165555	128139.6	128.14
		Sep-22	148925	115268	115.27
		Oct-22	151345	117141	117.14
		Nov-22	198720	153809.3	153.81
		Dec-22	213280	165078.7	165.08
		Jan-23	189260	146487.2	146.49
		Feb-23	183805	142265.1	142.27
		Mar-23	225550	174575.7	174.58
		Apr-23	232850	180225.9	180.23
		May -23	249485	193101.4	193.10
		Total	2,08,525 kWh	1,821,848.94	1,821.85

Total CO ₂ - eq Emission	Kg	Tonnes
Scope I	8,659.2	8.66
Scope II	1,821,848.94	1,821.85
Total (Scope I + Scope II)	1,830,508.14	1,830.51


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Amount of energy generated from renewable sources in campus

Sr. No.	Period	100 KW Solar PV System	80KW Solar PV System
1	Jun-22	0	194.46
2	Jul-22	0	0
3	Aug-22	1497.42	0
4	Sep-22	2751.64	0
5	Oct-22	3223.71	163.85
6	Nov-22	8769.75	5349.82
7	Dec-22	8143.1	4377.3
8	Jan-23	8262.89	7164.15
9	Feb-23	7425.62	7157.77
10	Mar-23	8179.62	8367.69
11	Apr-23	9495.96	9882.87
12	May-23	10397.33	10793.98
	Total	68147.04	53451.89
Total Energy Generated from 180kW capacity Solar PV System in kWh			121598.93

Total Electric Energy Consumption in kWh/month		
Sr. No.	Period	Total energy consumption in kWh/month
1	Jun-22	208525
2	Jul-22	186510
3	Aug-22	165555
4	Sep-22	148925
5	Oct-22	151345
6	Nov-22	198720
7	Dec-22	213280
8	Jan-23	189260
9	Feb-23	183805
10	Mar-23	225550
11	Apr-23	232850
12	May-23	249485
	Total	2353810

Total Fuel Consumption for Diesel Generators on campus		
Sr. No.	Period	Diesel consumption in Liter
1	Jun-22	300
2	Jul-22	230
3	Aug-22	90
4	Sep-22	360
5	Oct-22	820
6	Nov-22	310
7	Dec-22	130
8	Jan-23	230
9	Feb-23	100
10	Mar-23	30
11	Apr-23	0
12	May-23	680
	Total in Liter	3280


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