

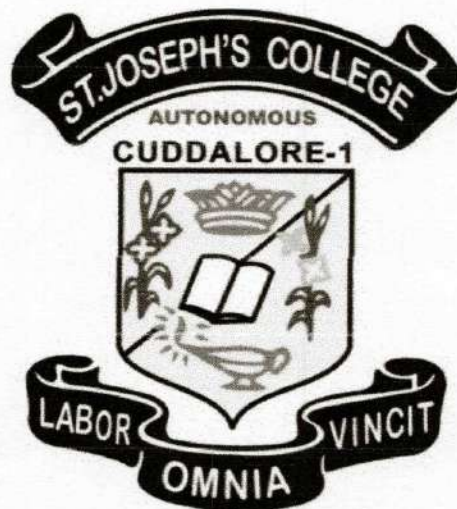


St. Joseph's College of Arts & Science (Autonomous)
Cuddalore – 607 001, Tamil Nadu.

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ST. JOSEPH'S COLLEGE OF ARTS & SCIENCE (AUTONOMOUS)
CUDDALORE - 1



ENERGY AUDIT REPORT 2021 - 2022

ENERGY AUDIT TEAM MEMBERS:

1. Dr. P. Marie Arockianathan,

Head of the Department in Biochemistry,
St. Joseph's College of Arts & Science (Autonomous),
Cuddalore-1.

2. Dr. T. Antony Sandosh

Head of the Department in Chemistry,
St. Joseph's College of Arts & Science (Autonomous),
Cuddalore - 1.

3. Dr.H.Jude Leonard Hilary

Assistant Professor in Department of Physics,
St. Joseph's College of Arts & Science (Autonomous),
Cuddalore - 1.

4. Dr. S. Sridevi

Assistant Professor in Department of Botany,
C. Kandaswamy Naidu College for Women,
Cuddalore - 1.

5. Dr. P. Thenmozhi,

Asst. Prof.& Head,

Department of Zoology

St. Joseph's College of Arts & Science (Autonomous),

Cuddalore - 1.

ST. JOSEPH'S COLLEGE OF ARTS & SCIENCE (AUTONOMOUS)

CUDDALORE – 1.

ENERGY AUDIT REPORT 2021-'22

Energy audit is defined as the verification, monitoring and analysing the use of energy.

The following are the initiatives taken in our college for energy conservation.

1. Solar voltaic system has been fitted in the college for use of renewable energy. We have two solar power plants within our campus. The power generated from the above panels are being diverted for the illumination of the street lights inside the premises.



Power saved through these panels are tabulated below

S.No.	Power consumption in Watts/Hr	No. of lights(LED)	Usage(Hrs) / day	Total (Watts)/Hr
1.	24	6	12	144
2.	15	1	12	15
3.	22	1	12	22
4.	15	1(Post Light)	12	15
Total Watts/Hr				196
Total Watts/Day				2352
Total Watts/Year				858480 Watts/858.48KW

2. Awareness about Energy conservation and prevention of Energy wastage is done by keeping boards like “save electricity”, “switch off computers when not in use”, etc.

Other initiatives

- Architectural design for Administrative building and class rooms are based upon use of natural lighting and ventilation, to save extra power for bulbs and fans.
For e.g. all the classrooms are provided with good number of windows.
- Florescent bulbs are replaced with LED bulbs and LED tubes gradually.
- We have been utilizing automatic cut-off system with sensors in all the RO units present in the campus.

Energy Consumption pattern in a month

S.NO	Electrical Appliances/Instruments	Number	Totalpower(W)	kW
1.	TUBE LIGHT	30	184	1.8
2.	LEDBULB	122	320	3.0
3.	LEDTUBE	134	-	-
4.	PROJECTOR	10	-	-
5.	SPEAKERS	49	-	-
6.	SPEAKERWITHHORN	6	-	-
7.	FAN	233	-	-
8.	COMPUTER	277	-	-
9.	PRINTERS	10	-	-
10.	SCANNER	4	-	-
11.	UPS	5	-	-
12.	A/C (ordinary)	16	472	4.7
13.	INVERTER A/C	19	410	4.1
14.	REFRIGERATOR	4	2097	2.1
15.	OVEN	7	230	0.2
16.	CENTRIFUGE	6	-	-
17.	AUTOCLAVE	12	-	-
18.	LAMINARFLOW	5	-	-
19.	EXHAUSTFAN	13	-	-
20.	INCUBATOR	8	-	-
21.	SANITARYNAPKIN INCINERATOR	2	-	-
Average Total Consumption in K.Watts				15.9

Bio-Gas Plant: There is one bio-gas tank in Zoology lab which is the alternate source of LPG energy by which the number of gas cylinder usage has been reduced.

No. of cylinders used in the current year=4

1. Name: Dr. P. Marie Arockianathan

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Head & Associate Professor
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2. Name: Dr. T. Antony Sandosh

Signature: 

HEAD OF THE DEPARTMENT
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3. Name: Dr. S. Sridevi

Signature: 

Dr. S. SRIDEVI, M.Sc., B.Ed., M.Phil., Ph.D.,
Assistant Professor,
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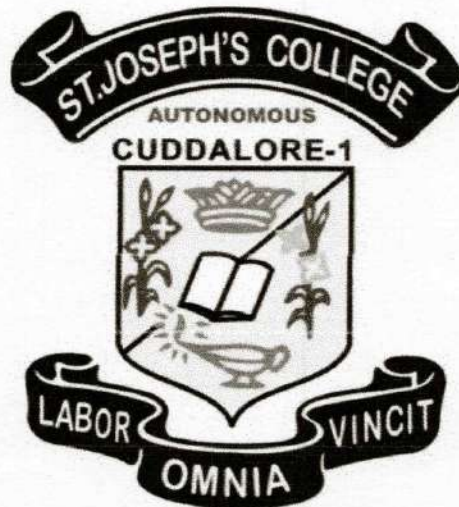
4. Name: Dr. P. Thenmozhi,

Signature: 

Dr. P. THENMOZHI
Assistant Professor & Head
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CUDDALORE - 1



ENERGY AUDIT REPORT 2020 - 2021

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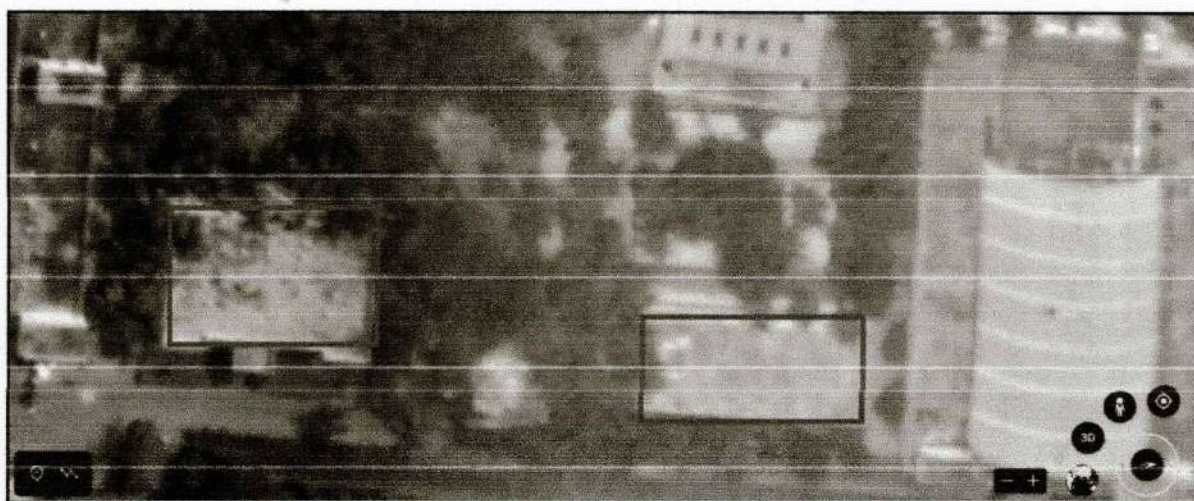
CUDDALORE – 1.

ENERGY AUDIT REPORT 2020-'21

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4.	15	1(Post Light)	12	15
Total Watts/Hr				196
Total Watts/Day				2352
Total Watts/Year				858480 Watts/858.48KW

2. Awareness about Energy conservation and prevention of Energy wastage is done by keeping boards like “save electricity”, “switch off computers when not in use”, etc.

Other initiatives

- Architectural design for Administrative building and class rooms are based upon use of natural lighting and ventilation, to save extra power for bulbs and fans.
For e.g. all the classrooms are provided with good number of windows.
- Florescent bulbs are replaced with LED bulbs and LED tubes gradually.
- We have been utilizing automatic cut-off system with sensors in all the RO units present in the campus.

Energy Consumption pattern in a month

S.NO	Electrical Appliances/Instruments	Number	Totalpower(W)	kW
1.	TUBE LIGHT	65	400	4.0
2.	LEDBULB	122	320	3.0
3.	LEDTUBE	104	-	-
4.	PROJECTOR	9	-	-
5.	SPEAKERS	49	-	-
6.	SPEAKERWITHHORN	6	-	-
7.	FAN	233	-	-
8.	COMPUTER	235	-	-
9.	PRINTERS	10	-	-
10.	SCANNER	4	-	-
11.	UPS	5	-	-
12.	A/C (ordinary)	19	345	3.5
13.	INVERTERA/C	16	560	5.6
14.	REFRIGERATOR	4	2097	2.1
15.	OVEN	7	230	0.2
16.	CENTRIFUGE	6	-	-
17.	AUTOCLAVE	12	-	-
18.	LAMINARFLOW	5	-	-
19.	EXHAUSTFAN	13	-	-
20.	INCUBATOR	8	-	-
21.	SANITARYNAPKIN INCINERATOR	2	-	-
Average Total Consumption in K. Watts				18.4

Bio-Gas Plant: There is one bio-gas tank in Zoology lab which is the alternate source of LPG energy by which the number of gas cylinder usage has been reduced.

No. of cylinders used in the current year= nil (due to lockdown for Covid)

1. Name: Dr. P. Marie Arockianathan

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ST. JOSEPH'S COLLEGE OF ARTS & SCIENCE (AUTONOMOUS)

CUDDALORE - 1



ENERGY AUDIT REPORT 2019 - 2020

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ENERGY AUDIT REPORT (2019–2020)

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Energy Consumption pattern in a month

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1.	TUBE LIGHT	65	2600	2.6
2.	LEDBULB	122	7320	7.32
3.	LEDTUBE	104	2080	2.08
4.	PROJECTOR	9	1080	1.08
5.	SPEAKERS	49	980	0.98
6.	SPEAKERWITHHORN	6	180	0.18
7.	FAN	233	17475	17.475
8.	COMPUTER	235	47000	47.0
9.	PRINTERS	10	500	0.5
10.	SCANNER	4	40	0.004
11.	UPS	5	50	0.005
12.	A/C (ordinary)	19	15200	15.2
13.	INVERTERA/C	16	8000	8.0
14.	REFRIGERATOR	4	3120	3.12
15.	OVEN	7	21000	21.0
16.	CENTRIFUGE	6	660	0.66
17.	AUTOCLAVE	12	30000	30.0
18.	LAMINARFLOW	5	3600	3.6
19.	EXHAUSTFAN	13	520	0.52
20.	INCUBATOR	8	960	0.960
21.	SANITARYNAPKIN INCINERATOR	2	1600	1.600
Average Total Consumption in K. Watts				163.9

- **Average Electricity Consumption in an Year is 1967 KW.**

Bio-Gas Plant

There is one bio-gas tank in Zoology lab which is the alternate source of LPG energy by which the number of gas cylinder usage is reduced.

No. of LPG cylindersto be used in an year=3

No. of LPG cylinders reduced in usage =2

1. Name: Dr. P. Marie Arockianathan

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