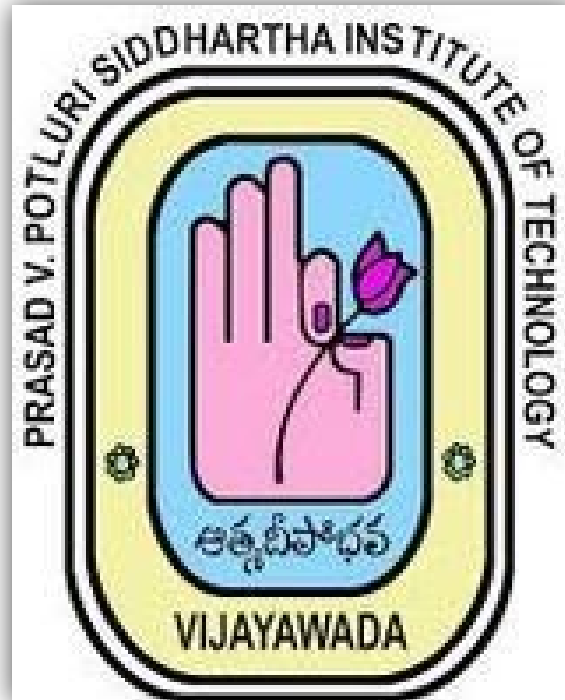


Prasad V. Potluri Siddhartha Institute of Technology (Autonomous)

Kanuru, Vijayawada –520007

(Affiliated to JNTUK, Accredited by NBA, ISO9001:2015 Certified Institution)



Environmental Consciousness and Sustainability

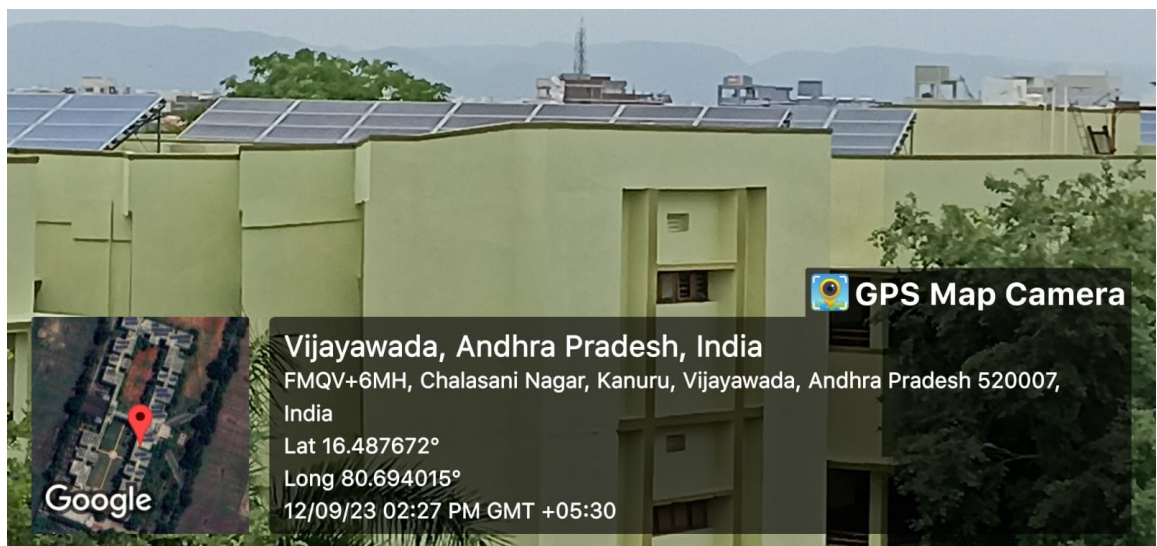
7.1.2. Facilities for alternate sources of energy and energy conservation measures

7.1.2 The Institution has facilities for alternate sources of energy and energy conservation measures

The institution takes significant strides towards sustainability through its robust facilities for alternate energy sources and energy conservation initiatives.

1. Solar Energy (200 kW Rooftop Installation):

The institution harnesses the power of solar energy with a substantial 200 kW rooftop installation. This solar capacity not only serves as an alternative and renewable energy source but also underscores the institution's commitment to reducing its carbon footprint. By tapping into solar power, the institution actively contributes to clean energy generation and environmental preservation.



Solar Plant

2. Wheeling to the Grid with APCPDCL:

In a collaborative effort with the APCPDCL (Andhra Pradesh Central Power Distribution Company Limited), the institution participates in wheeling excess energy back to the grid. This initiative not only allows the institution to share surplus electricity but also supports the broader grid's stability and efficiency. The partnership with APCPDCL exemplifies the institution's commitment to fostering sustainable practices at a community level.

Prasad V. Potluri Siddhartha Institute of Technology:: Vijayawada							
200 kW Grid Tied Solar Power Plant Generation Details							
Solar Energy generation and consumption details							
	Bill Month	Units Generated from Solar	Units Consumption on Main	Units Pumped to Grid	Units billed from APSPCDCL	Energy Bill (Rs)	Wheeling to Grid (Excess Solar Units Deposited)
2021	Jun	24306	8880	15210.00	4260.00	117549.00	10590.00
	Jul	19477	10256	8486.00	4260.00	117529.00	2490.00
	Aug	19036	13270	5126.00	8144.00	147624.00	0.00
	Sep	20336	15422	4782.00	10640.00	180118.00	0.00
	Oct	20534	14774	4918.00	9856.00	173353.00	0.00
	Nov	21976	16434	7324.00	9110.00	155198.00	0.00
	Dec	17346	19804	3324.00	16480.00	220251.00	0.00
2022	Jan	23500	17664	5574.00	12090.00	178250.00	0.00
	Feb	20661	13512	6424.00	7088.00	139584.00	0.00
	Mar	25289	11144	8042.00	4260.00	117525.00	1158.00
	Apr	25823	29494	3506.00	25988.00	372586.00	0.00
	May	25167	26042	4824.00	21218.00	284373.00	0.00
	Jun	22964.7	34774	3504.00	31270.00	419211.00	0.00
	Jul	19130.2	26632	2384.00	24248.00	303310.00	0.00
	Aug	16116.4	24754	1806.00	22948.00	315565.00	0.00
	Sep	20618	22328	3300.00	19028.00	264835.00	0.00
	Oct	17908.9	33938	2026.00	31912.00	431214.00	0.00
	Nov	20109.1	22990	5500.00	17490.00	284922.00	0.00
	Dec	19025.1	27524	2674.00	24850.00	339330.00	0.00
2023	Jan	19774.8	20102	2820.00	17282.00	256968.00	0.00
	Feb	23281.9	14534	7156.00	7378.00	160192.00	0.00
	Mar	23852.8	16284	4230.00	12054.00	200379.00	0.00
	Apr	24013.9	26900	3292.00	27798.00	339599.00	0.00
	May	24103.8	29898	4836.00	29898.00	432709.00	0.00

Jun	22112	27650	2896.00	24754.00	414979.00	0.00
Jul	21598.4	24344	2904.00	21440.0	297811.00	0.00
Aug	13175.6	28514	1814.00	26700.00	371079.00	0.00
Sep	21138.2	38590	2484.00	37550.00	468519.00	0.00
Oct	18623.2	34980	3520.00	31460.00	477275.00	0.00
Nov	24365	28548	6526.00	22310.00	325528.00	0.00
Total	635363	679980	141212	563764	8307365	14238

3. Sensor-Based Energy Conservation: Classroom Automation:

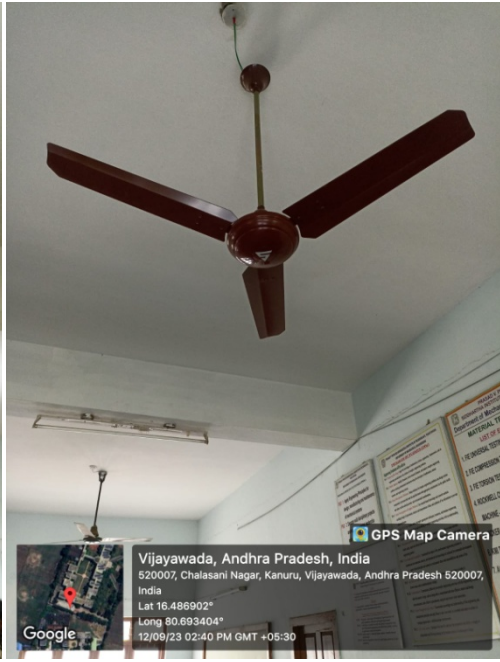
The institution embraces cutting-edge technology for energy conservation through classroom automation. Sensor-based systems detect occupancy and ambient light levels enabling intelligent control of lighting. This automated approach ensures that energy is used efficiently, responding dynamically to the real-time needs of each classroom. This not only optimizes energy consumption but also enhances the overall learning environment.

4. Use of LED Bulbs and Power-Efficient Fans:

The institution prioritizes energy-efficient lighting and equipment by adopting LED bulbs and Power Efficient fans. LED bulbs consume less electricity, providing cost savings and longevity. Power efficient fans are known for their energy efficiency, reducing power consumption compared to traditional fans. The deployment of power-efficient equipment aligns with the institution's commitment to responsible energy use, contributing to both economic and environmental sustainability.



LED Bulbs



Power efficient fans