

**ENERGY CONSERVATION
PRACTICES**

R.M.K. ENGINEERING COLLEGE

THIRUVALLUR DISTRICT

SOLAR ENERGY

The college is equipped with four 5Kw with a total capacity of 21Kw solar panels meeting 40% of power requirement of academic blocks.





20kVA. Solar power consumption details

5kVA	VR Block	—	8.5 units / day Avg
5kVA	Rm Block	—	19 units / day "
5kVA	Civil block (East wing)	—	19 units / day "
5kVA	Civil block (West wing)	—	23 units / day "
			Total 69.5 units / day Say 70 units / day avg
			per month 70 units x 30 days
			= <u>2100 units</u>

Bio gas fuel plant:

Bio gas fuel plant generating gas of 3kg/ day is installed in the college to meet requirement of the institution.

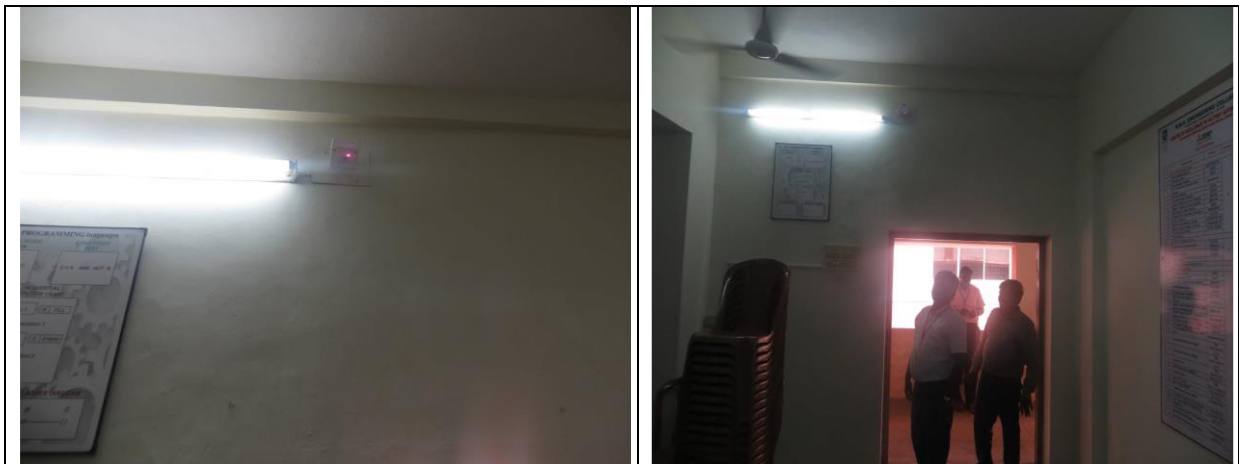


Use of LED bulbs/ power efficient equipment

- 42 Street lights of 250W are replaced with 36W LEDs and 480 tube lights of 40W are replaced with 18W LED tube lights. This led to a total saving 7038 units per month amounting to Rs. 70380 savings per month.
- All window ACs are replaced with Inverter AC saving 5161 units per month amounting to Rs. 51610 per month.
- Automated street lamps (11 Nos.) are installed which saves 1425.6 units per year.
- Smart lighting system is installed in 4 of the laboratories
- Internal transportation within the campus is through bicycles and battery cars only.
- Mass transportation for the students (Through college buses only. Private vehicles like cars, bikes etc. are strictly prohibited)



Automated street lamps (11 Nos.) are installed which saves 1425.6 units per year.



Smart lighting system is installed in 4 of the laboratories



All window ACs are replaced with Inverter AC

