



Stella Mary's College of Engineering,
Aruthenganvilai, kallukattiJunction,AzhikalPost,Kanyakumari District – 629202

Solar Light inside the campus



Solar Lighting system



Solar Lighting system - Working condition



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Renewable Energy Source

Solar Energy Lamp

Specification of solar panel : 36 Watts

LED bulb used in the setup : 15 Watts

Usage of the Lamp

Operating time daily : 6 pm to 6 am

: 12 hours/day

Sl no	LED bulbs Power in watts	Daily usage in hours	Daily usage in (watt hour)	Usage for one month (30 days) watt hour	Usage for one month (30 days) KWH
1	15	12	180	5400	5.4 units

Renewable Energy generated per/year

$$= 5.4 \text{ units} \times 12 \text{ months}$$

Total energy generated/year

$$= 64.8 \text{ units}$$


PRINCIPAL
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