

### 7.1.2. The Institution Has Facilities for Alternate Sources of Energy and Energy Conservation Measures

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S.NO.	ALTERNATE SOURCES OF ENERGY AND ENERGY CONSERVATION	FACILITIES AVAILABLE AT S V VETERINARY UNIVERSITY, Tirupati
1.	SOLAR ENERGY	S V Veterinary University has established Total <b>1.75MW</b> Solar Power Plants to harness the solar energy. Building wise installed solar plants details along with geotagged photographs are enclosed. Solar dehydration technology has been using in food processing by the students of Dairy Technology in collaboration with Society for Energy, Environment and Development (SEED) Hyderabad.
2.	WHEELING TO THE GRID	Solar energy generated by solar panels are exported to the grid of electricity distribution utility of Southern Power distribution company of Andhra Pradesh Ltd. Direct savings in electricity bills are availed from electricity distribution utility on monthly basis. Details of benefits accrued in bills are enclosed. <b>On average about 2500 – 3000KVAH units of power giving back to Southern Power Distribution of AP on payment basis</b>
3.	USE OF LED BULBS / POWER EFFICIENT EQUIPMENT	The University adopted energy efficient lighting including L.E.D. based lights, Bulbs and Tube lights etc. to promote energy efficiency. Photographs of street light attached.

#### 1. SOLAR ENERGY

The Institution has facilities for alternate sources of energy and energy conservation measures. Solar energy is the most attractive and abundant form of renewable energy source because it is free, environment friendly and available most of the year. The most common and simplest application of solar energy is to convert it into heat. The University has been taken initiatives to utilize solar energy in the campus. Solar panels were established in various places in the university viz., Administrative Building, Dairy Technology College, Hostels etc. The information in the establishment and utilization of solar energy is given in Annexure enclosed.

## 2. WHEELING TO THE GRID

Solar energy generated by solar panels are exported to the grid of electricity distribution utility of Southern Power distribution company of Andhra Pradesh Ltd. Direct savings in electricity bills are availed from electricity distribution utility on monthly basis.

## 3. USE OF LED BULBS/ POWER EFFICIENT EQUIPMENT

Power crisis is one of the most common problems in India. LED is a highly energy efficient lighting technology, and has the potential to fundamentally change the future of lighting in India. With the help of LED, we can eliminate this shortage by minimizing the wastage of electrical power or saving our generated power. Light-emitting diode (LED) is one of today's most energy-efficient and rapidly developing lighting technologies. Quality LED light bulbs last longer, are more durable, and offer comparable or better light quality than other types of lighting. LEDs, use at least 75% less energy, and last 25 times longer, than incandescent lighting. Widespread use of LED lighting has the greatest potential impact on energy savings in the campus.



Solar Power Plant at SVVU Administrative Office, Tirupati



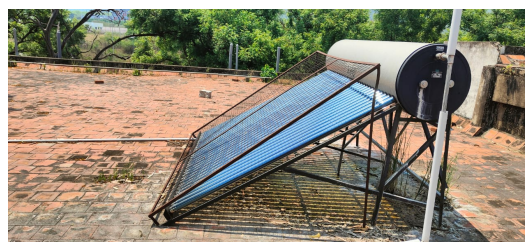
Solar Power Plant at NTR College of Veterinary Science, Gannavaram



Solar Power Plant at College of Dairy Technology, SVVU, Tirupati



Solar Street Lights in SVVU Campus, Tirupati



Solar water Heaters in Boys Hostel, College of Veterinary Science, Tirupati

