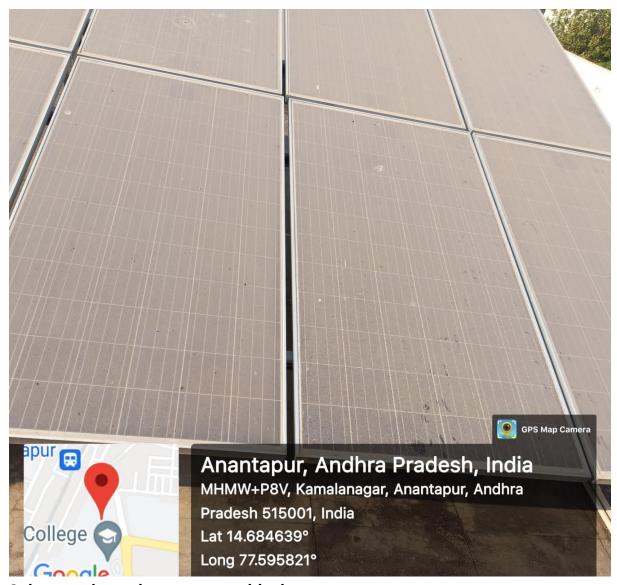
Criteria: 7.1.2

The Institution has facilities for alternate sources of energy and energy conservative measures:

- 1. Solar energy: Solar energy is one of the best non conventional energy resources. Solar radiation comes by the result of nuclear fusion and reaches earth as pockets of energy called photons. Photo voltaic cells in the solar panel convert solar radiation into electricity. We have installed 20 kV solar panel unit in on the commerce block. It produces on an average 750 units per month. From February 2018 to June 2022 a total of 38025 units of power generated and it is almost 19 % of total consumption
- 2. Biogas plant: Nil
- 3. Wheeling to the Grid: Yes. Solar power unit is connected to the Grid
- 4. Sensor -Based energy conservation: Two sensors are installed for water tanks. One is for mineral water unit and another for main water tank
- 5. Use of LED bulbs /Power efficient equipment: Our college has 300 LED bulbs which consumed 3.42 % of total electric energy consumed by the college



Solar Pannels on the Commerce Block



Solar panels on the commerce block

3. Wheeling to the Grid: Yes. Solar power unit is connected to the Grid.





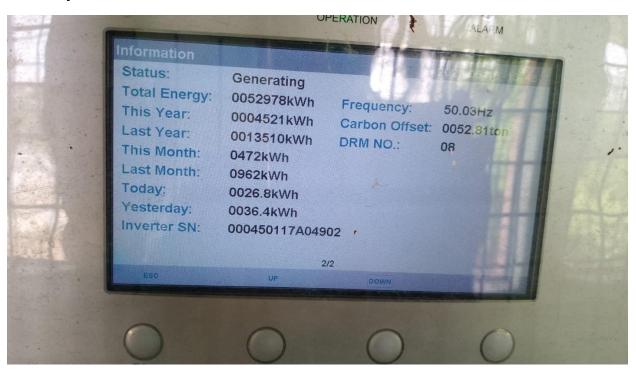
Controlling pannel of the Solar Unit

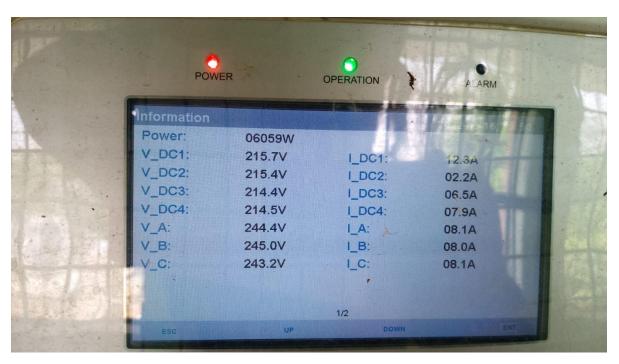
USCNO : 7112201000093 NAME : PRINCIPAL ADDRESS : GOVT.ARTS COLLEGE,ATP,Q2/B7/5/A, ,0 SECTION : AE-D2 DISTRIBUTION : 01-AE-D2 W. W. Solar MONTH TYPE MAR-18 KWH TYPE OPRDG-IMP CLRDG-IMP IMP UNITS OPRDG-EXP CLRDG-EXP EXP UNITS NET UNITS 8487 APR-18 KWH MAY-18 KVH JUN-18 KVH 3353 -15835 20578 2902 6843 JUL-18 KVH 23480 AUG-18 KVH SEP-18 KVH 4744 32861 11842 14261 OCT-18 KVH NOV-18 KVH 41570 4454 DEC-18 KVH 18642 20143 1501 JAN-19 KVH FEB-19 KVH

22025 23781 MAR-19 KVH APR-19 KVH 4912 5069 -157 60921 28850 MAY-19 KVH JUN-19 KVH 70959 1991 70959 34481 JUL-19 KVH 77426 35426 JUL-19 KVH AUG-19 KVH 4370 81796 SEP-19 KVH OCT-19 KVH -67 6391 NOV-19 KVH DEC-19 KVH JAN-20 KVH 58078 FEB-20 KVH MAR-20 KVH APR-20 KVH 62137 MAY-20 KVH JUN-20 KVH JUL-20 KVH

AUG-20 KVH SEP-20 KVH OCT-20 KVH NOV-20 KVH DEC-20 KVH JAN-21 KVH JAN-21 KVH AFR-21 KVH AFR-21 KVH JUN-21 KVH JUN-22 KVH AUG-21 KVH SEP-21 KVH NOV-21 KVH NOV-21 KVH DEC-21 KVH JAN-22 KVH AFR-22 KVH ARR-22 KVH ARR-22 KVH MAY-22 KVH	132397 134984 137411 141201 145185 148751 151989 155816 159702 164831 169732 172123 174827 178410 182577 186353 190841 194951 199071 203009 207278 213067	134984 137411 141201 145185 148751 151989 155816 159702 164831 169732 174827 178410 182577 186353 190841 199071 203009 207278 213067 219956	2587 2427 3790 3984 3566 3238 3827 3886 5129 4901 2704 3931 2704 3776 4488 4110 3938 4269 5789 6889	62137 62137	62137 62137		
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Monthly Statement of Solar Power Generated



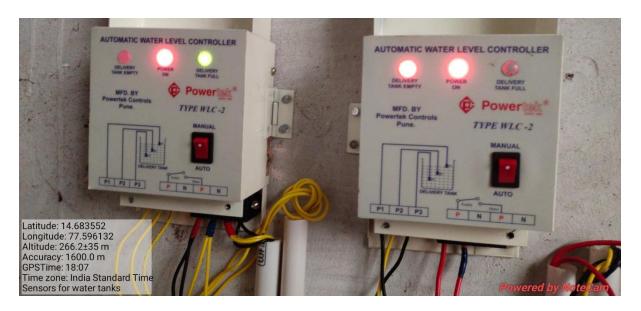






Details of the Solar Power Unit

4.Sensor -Based energy conservation: Sensors are arranged to the water tanks to save water and power



Sensors for water tanks

5.Use of LED bulbs /Power efficient equipment: Our college has 300 LED bulbs which consumed 3.42 % of total electric energy consumed by the college



LED bulbs in Drama Hall



LED bulbs in Seminar hall



LED bulbs in Principal Chamber



LED Bulb at Telugu Academy building



LED Path Light



LED path light at Main building