4.4.2. Established systems and procedures for maintaining and utilizing physical and academic support facilities

➢ **Follow Up Actions – Energy Audit**

ENERGY CONSERVATION SCENARIO AND ENERGY SAVING MEASURES IMPLEMENTED

St. Mary's College (Autonomous), Thoothukudi, has performed well on the Energy conservation (ENCON) front. Many energy saving projects have been implemented. TCE Energy Team analyzes the Energy Consumption pattern of all the LT Power Supply System on the aspect of variation of consumption with respect to college working days and vacation and found reasonable.TCE appreciates the excellent efforts of St. Mary's College (Autonomous), Thoothukudi team towards energy conservation and their achievements. St. Mary's College (Autonomous), Thoothukudi is one of the lowest energy consuming college among the arts colleges of equivalent strength, we have come across.

Some of the important energy saving projects already implemented by St. Mary's College (Autonomous), Thoothukudi are as follows:

- Installation of 12Nos. of Solar PV Based Street Lighting System
- Use of Energy Efficient LED Tube Lights in few locations
- Efficient use of Sunlight for Day lighting purpose
- Installation of 10 kilowatts Grid connected Solar PV System
- User awareness on Energy Conservation practices.

St. Mary's College (Autonomous), Thoothukudi has a very good committed technical team. The committee members felt that the concerted efforts of the committed plant personnel would help to realize the vision of being the Model energy efficient College in the country.

ENERGY SAVING PROPOSAL NO. 1

Replace Conventional Tube Light with Energy Efficient LED Tube Light

ENERGY SAVING PROPOSAL NO. 2

Replace Conventional Ceiling Fan with Energy Efficient BLDC Ceiling Fan

ENERGY SAVING PROPOSAL NO. 3

Switch-Off Line Interactive Uninterrupted Power Supply (UPS) Systems while closing the Laboratory

ENERGY SAVING PROPOSAL NO. 4

Remove Stabilizer for Inverter Based Refrigerators

SCOPE FOR IMPROVEMENT

- Install Sleep Mode Facility for all the Computer System
- Install Common Ups instead of Standalone 0.5kva Ups in Laboratory
- Marking of Switch Control for Lights and Fans
- Install Pedestal Fan & Avoid Use of Air-Conditioners during Non-Laboratory Hours
- Submersible Pumps to Replace the Monoblock Pumps for Water Pumping
- Insulation Replacement in Dolorosa Building Central Air- Conditioning System

The Energy Audit suggested the following recommendations. The Planning and Evaluation Committee has approved the recommendations to be implemented on the priority basis. The replacement of conventional tube light with energy efficient LED tube light was implemented in the administrative block. The committee members have pointed out the important energy saving projects already implemented by St. Mary's College (Autonomous), Thoothukudi.

Principal
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