

TECHNICAL CLUB: ALTERNATIVE SOURCES OF ENERGY

CORE DISCIPLINE: ELECTRICAL & ELECTRONICS ENGINEERING

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TECHNICAL BACKGROUND AND UTILITY OF THE CLUB

THERE IS A GLOBAL NEED FOR CLEAN AND RENEWABLE ENERGY SOURCES. FOSSIL FUELS ARE NON-RENEWABLE AND REQUIRE FINITE RESOURCES, WHICH ARE DWINDLING BECAUSE OF HIGH COST AND ENVIRONMENTALLY DAMAGING RETRIEVAL TECHNIQUES. SO, THERE IS A NEED OF CHEAP AND RENEWABLE ENERGY RESOURCES. EFFICIENT OPTIONS OF RENEWABLE ENERGY ARE SOLAR ENERGY AND WIND ENERGY, HOWEVER WITH PRESENT STATUS OF TECHNOLOGY, THESE RENEWABLE ENERGY SOURCES ARE LITTLE BIT EXPENSIVE AND DIFFICULT TO RETRIEVE.

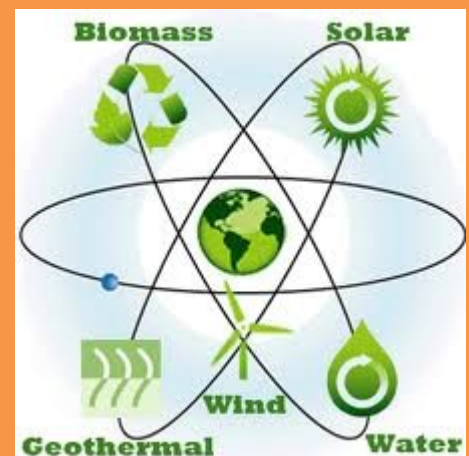
MOST OF OUR CONVENTIONAL ENERGY SOURCES ARE DESTRUCTIVE TO THE ENVIRONMENT IN SOME WAY OR ANOTHER. TO GET ENVIRONMENTAL FRIENDLY RENEWABLE ENERGY IS THUS AN IMPORTANT THEME FOR RESEARCH AND TECHNOLOGICAL DEVELOPMENT. NOW WITH TECHNOLOGICAL ADVANCEMENT, THE ENVIRONMENT FRIENDLY RENEWABLE ENERGY SOURCES, SPECIFICALLY SOLAR POWER IS BECOMING AFFORDABLE AND IS EMERGING AS ALTERNATIVE TO THE DAMAGING CARBON-INTENSIVE FUELS. HOWEVER, STILL TECHNOLOGICAL DEVELOPMENT IS NEEDED TO COMPLETELY REPLACE POLLUTING SOURCES OF ENERGY.

THIS CLUB RIGHTLY FOCUSES ON THIS VITAL ISSUE WITH UNDERSTANDING THE VARIOUS AVAILABLE TECHNOLOGIES IN THE FIELD OF RENEWABLE ENERGY AND CONTRIBUTE WITH SOME INNOVATIONS FOR FURTHER ADVANCEMENT. THE CLUB AIMS TO CREATE INTEREST OF STUDENTS IN THIS DOMAIN AND GIVE THEM A PLATFORM TO SUPPORT THEIR CREATIVITY TO INNOVATE THROUGH PRACTICAL LEARNING AND APPLICATION ORIENTED MINDSET. THE CLUB FURTHER EXTENDS ITS GOAL TO ENHANCE COMPETENCE OF THE STUDENTS IN THIS DOMAIN FOR EXCITING CAREER IN PUBLIC AND PRIVATE SECTOR INDUSTRY AND RESEARCH INSTITUTIONS THAT WORK IN THIS DOMAIN.

ACTIVITIES TO BE CONSIDERED UNDER THE CLUB:

THE ACTIVITIES OF THE CLUB HAVE BEEN WELL FORMULATED TO DEVELOP INTEREST AND COMPETENCE OF THE STUDENTS IN THE RELATED TECHNOLOGIES WITH EMPHASIS ON APPLICATION ASPECTS OF THE CONCEPTS. FOLLOWING ACTIVITIES HAVE BEEN CONSIDERED:

- LEARNING THROUGH TECHNICAL MAGAZINES AND JOURNALS
- DESIGN AND PRACTICAL MODELLING OF RELEVANT CIRCUITS AND SYSTEMS USED IN GENERATION AND TRANSMISSION OF SOLAR ENERGY
- AS A SYMBOL OF SOCIAL COMMITMENT, THE CLUB WOULD CONDUCT "ENERGY AWARENESS" PROGRAMS AND MAKE EFFORTS TO REDUCE CARBON EMISSIONS AND EMISSIONS OF OTHER AIR POLLUTANTS THROUGH INCREASED USE OF RENEWABLE ENERGY AND OTHER CLEAN DISTRIBUTED GENERATION.
- PAPER WRITING AND PRESENTATION
- QUIZ AND GROUP DISCUSSIONS ON THE CLUB THEME RELATED TOPICS
- CONDUCTION OF WORKSHOPS AND PRACTICAL TRAINING SESSIONS
- INTERACTION WITH EMINENT INDUSTRIAL AND ACADEMIC EXPERTS IN THE DOMAIN OF CLUB THEME
- INDUSTRIAL AND INSTITUTIONAL TOURS
- CONSIDERING INDUSTRIAL R&D PROJECTS IN THE DOMAIN OF THE CLUB THEME





SOME IMAGES OF TECHNOLOGICAL DEVELOPMENT IN THE CLUBS DOMAIN