

Solar energy research and development sukhumi

Solar energy plays an important role towards achieving long lasting, sustainable, environment friendly renewable energy resources to fulfill the energy needs for mankind. The use of non-renewable fuels, such as fossil fuels have many side effects. Their combustion products produce pollution, acid rain and global warming.

Conversion to clean energy sources such as solar energy would enable the world to improve the quality of life throughout the planet Earth, not only for humans, but also for its flora and fauna as well. Because of the foregoing, there is a need to develop an ingenious method of solar energy conversion systems and then to substitute it where applications of fossil fuels are most vulnerable. Therefore, extensive research and development in solar energy utilization technologies must be carried out.

Solar Photovoltaic technology enables us to convert sun's energy directly into electricity by means of devices called solar cells. The Solar Energy Research Institute (SERI) of UKM has been rigorously working to promote Solar Photovoltaic Technology in this region ever since its birth in 2005.

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Policies and ethics

Its significant research contributions and technological advancements position SERI as a prominent hub for solar energy research and innovation in the region. Along with its research and innovation, SERI also support science, technology, engineering, and mathematics (STEM) education through the offered postgraduate programmes for local and abroad students that are accredited by the recognised body.

Solar Energy Research Institute (SERI) was established on 1st July 2005. It was formed to address the immediate issue of fossil fuels consumption that causing environmental pollution and global warming. Fossil fuels are limited in supply. Moreover, rapid depletion of these non-renewable resources has resulted in the increase of fossil fuel prices.

Therefore, there is a need for alternative energy sources which are long lasting, sustainable and environmental friendly to satisfy the desire of mankind for better quality of life. Renewable energy such as solar has the potential to replace fossil fuel. To support this effort, SERI undertakes research and development to develop renewable energy technology and expertise in this challenging and exciting field.

SERI created as a forum for research in the field of renewable energy by providing high knowledge in theory and application. This is in line with our objective to develop scientific capacity and efficiency to produce skilled human capital to meet the demands of professional manpower needed in the public and private sectors.

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