



Department of Physics
Integral University, Lucknow, Uttar Pradesh, India

Report on Guest Lecture on
Renewable Energy and its Future in India

- **Name of the Event:** Guest Lecture on Renewable Energy and Its Future in India
- **Session and Date of the Event:** 2020-21, 10th November, 2021
- **Name of the department/institute who organized the event:** Department of Physics, Integral University
- **Number of the staff/faculty members involved:** 01
- **No of Participants:** 71
- **Co-ordinator of the Event:** Dr. Syed Salman Ahmad Warsi

Introduction:

Renewable energy has been an important component of India's energy planning. The importance of renewable energy sources in the transition to a sustainable energy base was recognized in the early 1970s. Modern renewable energy is being used increasingly in four distinct markets: power generation, heating and cooling, transport, and rural/off-grid energy services. The Ministry of New and Renewable Energy (MNRE) in India has been facilitating the implementation of broad spectrum programs including harnessing renewable power, renewable energy for rural areas for lighting, cooking and motive power, use of renewable energy in urban, industrial and commercial applications and development of alternate fuels and applications. In addition, it supports research, design and development of new and renewable energy technologies, products and services. The approach for deployment of new and renewable energy systems focused on a mix of subsidy, fiscal incentives, preferential tariffs, market mechanism and affirmative action such as renewable purchase obligations by way of legislation and policies. Financial support has also been extended to research and development (R&D), information & publicity and other support programs. Renewable energy plays an important role in the long-term energy supply security, diversification of energy mix, energy access, environmental security and sustainability. Renewable energy is bound to play an increasing role in future energy systems.

To reduce the dependence on conventional energy resources and make people aware of the alternatively available renewable energy resources, Department of Physics, Integral University, organised an online Guest Lecture on Renewable Energy and it's Future in India on 10th November, 2021. The Lecture was delivered by Prof. (Retd.) Usha Bajpai, Department of Physics, Lucknow University.

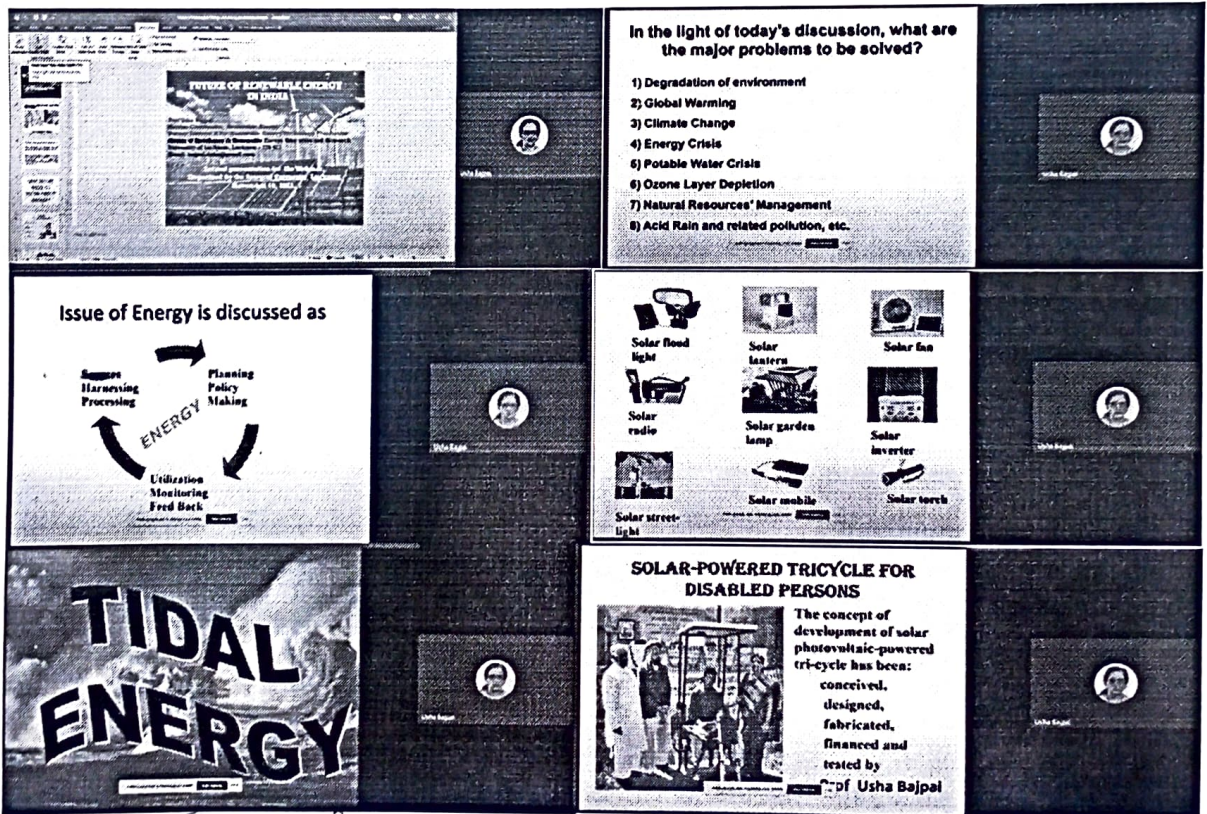
The program started with the welcome address by Dr. Anuradha Shukla, Assistant Professor, Department of Physics, Lucknow University. In her welcome address, Dr.

Anuradha Shukla highlighted the achievements and contribution of Prof. Usha Bajpai in the field of Renewable Energy.

Prof. Usha Bajpai started her Lecture with the need of energy resources and their consumption since the early age. After that she differentiated between Renewable and Non-renewable energy resource and the different types of Renewable energy available at our disposal. She also gave the brief information about the various common household device based on Renewable energies. She also mentioned the various devices made by her research group for the betterment of mankind. Finally she concluded her lecture on the future of renewable energies, the vision of Government of India about it and how we will achieve the future goals by the dead line. The lecture ended on a high note with the participants asking a number of questions about what can be done and how they can make their future in this emerging field.

In the end, Vote of Thanks was given by Dr. Syed Salman Ahmad Warsi, Associate Professor, Department of Physics, Integral University. On the behalf of Department of Physics, He expressed the gratitude to Dr. Usha Bajpai for delivering a very informative lecture on the emerging field of Renewable energy. He also thanked the management of Integral University for providing the opportunity to conduct this lecture and the enthusiastic participants whose presence made this event a successful one.

Glimpses of the Guest Lecture:



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 Dr. Syed Salman Ahmad Warsi
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Anuradha Shukla

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