ONLINE TRAINING COURSE AND WORKSHOP

RENEWABLE ENERGY
Pathways and Technologies

Course dates: **September 1-15, 2021 (2 weeks)**
Last date for receiving applications: **August 27, 2021**
Total duration: **2 weeks (10 working days)**
Training load: **Approximately 7-8 hours per week**
Language of instruction: **English**
Course platform: **Zoom**

The School of Climate Change, under the Anil Agarwal Environment Training Institute (a Centre for Science and Environment initiative) invites applications for an online training programme on RE Pathways and Technologies. This course-cum-workshop is open to anyone interested in the subject of renewable energy, and will offer a mix of self-guided reading, online sessions by key experts, group activities, assignments and individual evaluation.

COURSE FEES
Rs 3,500 per person for Indian participants
US $100 for global participants

Background

For the past 150 years, humanity has relied heavily on fossil fuels, mainly coal, oil and natural gas to meet its ever-increasing energy demand. This has had a severe payback: carbon dioxide (CO_2), methane (CH_4) and other greenhouse gases (GHGs) produced by combustion of fossil fuels now account for about two-thirds of global GHG emissions, leading to climate change and its devastating impacts.

The 2015 Paris Agreement on climate change has called for limiting global warming to 2^0C by the end of the century – this target cannot be met without a drastic overhaul of global energy production and consumption. Renewable sources of energy are, therefore, emerging as a key mitigation route for combating climate change, and are transforming the energy sector. Solar PV and wind are coming up as the cheapest sources of electricity around the world, and most RE sources are expected to be cost-competitive within a decade.

An increase in RE share across all end-use sectors can be achieved through multiple pathways. Some RE technologies can be deployed locally (decentralised in rural and urban areas), whereas others are deployed through utility-scale energy networks (centralised). The ease of integration would vary, based on the region and the characteristics specific to the technology.

This transformation will have the potential to create 18 million net additional jobs by 2030. The future RE workforce needs to know about the changing and emerging technologies, as technology would be one of the key factors for integration of RE into the energy market and for the shift to reduce carbon intensity of generation assets.

This online course has been designed to capacitate those already working in or planning to work in the RE sector, by imparting a better understanding of RE technologies and their pathways.

Course structure and format

Spread over 10 working days, the programme is open to anyone interested in the subject of renewable energy and climate change, and will offer a mix of self-guided reading, two live lectures by experts, a group activity, two individual assignments, and regular Q&A with CSE's climate change specialists. No prior knowledge of climate change is required.

The course will cover the following:

- Climate change and sustainable development
- CO_2 emission reduction and Nationally Determined Contributions (NDCs)
- Carbon budget and the 1.5^0C/2^0C pathways
- Renewable energy (RE) and its applications
- Disruptive RE technologies and energy transition [petro to electro economy]
- The future of RE

Who can apply

Industry professionals, energy consultants, energy engineers, climate change professionals and consultants, researchers and academicians, and students aspiring to work in RE and climate change

PARTICIPANTS WILL BE AWARDED A CERTIFICATE ON SUCCESSFUL COMPLETION OF THE COURSE.

For more information, please contact the CSE Renewable Energy Team at
retraining@cseindia.org

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