



Institution's Innovation Council  
Saurashtra University

# National Energy Conservation Day (India)

**“Non-Conventional energy resources in India”**

14<sup>th</sup> December 2023

At

Class Room, Department of Chemistry,  
Saurashtra University, Rajkot

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## Saurashtra University – IIC

The university is dedicated to instruction, research, and extending knowledge to the public (public service). Ministry of Education (MoE), Govt. of India has established 'MoE's Innovation Cell (MIC)' to systematically foster the culture of Innovation among all Higher Education Institutions (HEIs). The primary mandate of MIC is to encourage, inspire and nurture young students by supporting them to work with new ideas and transform them into prototypes while they are informative years. Saurashtra University is one the Organization that have constituted the IIC to foster the vision of MoE and be a part for the promotion and development of innovation ecosystem.

### Event Schedule

11:00	• <b>Welcome</b>
11:05	• <b>Awareness session</b>
12:45	• <b>Q &amp; A</b>
01:00	• <b>Closing Ceremony</b>

### Event Registration Link

[bit.ly/SUSEC-NECD](http://bit.ly/SUSEC-NECD)

## Brief about Event

Department of Nanoscience and Advanced Materials, IIC Saurashtra University and in collaboration with SUSEC, celebrated National Energy Conservation Day (India) on "Non-Conventional Energy Resources in India" on 14<sup>th</sup> December, 2023 at Class Room of Department of Chemistry, Saurashtra University, Rajkot. The day is celebrated to spread the message on the importance of energy conservation and to showcase the nation's achievements in energy efficiency and conservation.

Students understood that energy is essential for production and economic growth. After that sir explained classification of energy resources. The sources of energy that are exhaustible and being made unceasingly in nature are known as nonconventional energy or renewable sources of energy. The standard sources embrace the fossil fuels i.e., coal, oil and gas, sorts of atomic energy i.e., Uranium, whereas the nonconventional sources like daylight, wind, rain, tidal, biogas, and biomass and geothermal that are renewable.

Biggest truth is no branch or industry can run without electricity. Also, understood difference between renewable and non-renewable energy. Renewable energy resources are mostly biomass-based and are available in unlimited amount in nature since these can be renewed i.e., regenerated in natural process over relatively short period of time. Renewable energy sources are inexhaustible, i.e. they can be replaced after we use them and can produce energy again and again. These include, firewood or fuel wood obtained from forest, petro plants, plant biomass as agricultural publication info article history. Non-renewable energy resources are available in limited amount and develop over a longer period of time. As a result of unlimited use, they are likely to be exhausted one day. These include various fossil fuels including petroleum products, coal and natural gas and nuclear energy. India is 3<sup>rd</sup> biggest RE producer in 2021.

The main focus of the event was on how to achieve solar energy. Solar is one of the best ways to producing electricity without any pollution. The largest solar park in India is in Rajasthan. Solar energy is one of the cleanest renewable energy converted from Sun with no greenhouse emissions. Sir also, said that the Bhadla Solar Park is a solar power plant located in the Thar Desert of Rajasthan, India. It covers an area of 56 square kilometres and has a total installed capacity of 2,245 megawatts, making it the largest solar park in the world as of 2023. Sir held question answer session on renewable and non-renewable energy with the students.

## Key Points

During the session, below mentioned points were discussed:

- Electrical India
- Classification of Energy Resources
- Renewable & Non-Renewable Energy
- Solar Energy
- Examples of renewable energy
- FAQs related to Non-Conventional Energy Resources in India

## Outcome

As per the event, students understood the proper way of utilization of electricity, water etc. Developing renewable energy will facilitate India increase its energy security, cut back adverse impacts on the native atmosphere, lower its carbon intensity, contribute to a lot of balanced regional development and understand its aspirations for leadership in high-technology industries. All this was explained to the students by the speaker.

In India, there's nice scope for the non-conventional and renewable energy sectors. India is that the solely country that has associate exclusive Ministry for brand spanking new and Non-Conventional Energy Sources. India possesses the most important redistributed solar power program, the second largest biogas and improved stove programs, and also the fifth largest wind generation program within the world.

## About the Speaker/Chief Guest

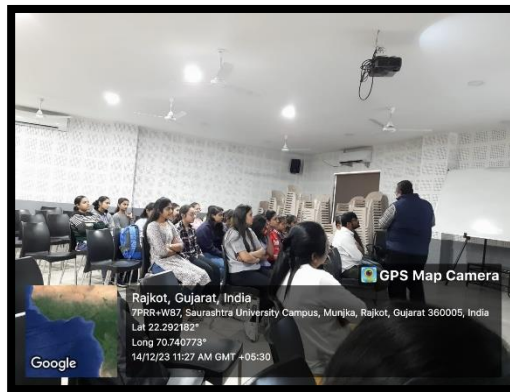


**Dr. Jaysukh  
Markna**

Assistant Professor

Department of Nanoscience And  
Advanced materials,  
Saurashtra University,  
Rajkot

The poster is for 'NATIONAL ENERGY CONSERVATION DAY (INDIA)'. At the top, it features logos for SSIIP, G2 SEC, StartUp, INSTITUTION'S INNOVATION COUNCIL, and G20. The main title is 'NATIONAL ENERGY CONSERVATION DAY (INDIA)'. Below the title, it lists the speaker: 'Dr. Jaysukh Markna, Asst. Professor, Department of Nanoscience And Advanced Materials, Saurashtra University, Rajkot'. A hexagonal inset shows a portrait of Dr. Markna. The text below the inset states: 'The Department of Nanoscience And Advanced Materials, in collaboration with IIC Saurashtra University and SUSEC, is celebrating The National Energy Conservation Day (India) (Non-conventional energy resources in India) on 14th December, 2023 at Class Room, Department of Chemistry, Saurashtra University, Rajkot.' A dark blue banner reads 'EVENT WILL BE HELD ON'. Below this, three icons indicate the date '14th December 2023', time '11:30 am Onwards', and location 'Class Room, Department of Chemistry, Saurashtra University, Rajkot'. A globe icon with a plug and the text 'xxx' is also present. At the bottom, it says 'Register here: bit.ly/SUSEC-NECD' and 'Visit Our Website: www.susec.ac.in'.





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