



G H Patel College of Engineering & Technology
(A Constituent College of CVM University)



VIRTUAL INDUSTRIAL VISIT REPORT

NAME OF THE INDUSTRY: SPRERI

DATE: 13th, MARCH, 2021

VENUE: Post Box No: 2, Vallabh Vidhyanagar, Gujarat, India-388 120, Gujarat, India.

NO. OF STUDENTS PARTICIPATED: 40 (First Year EC Students)

FACULTY MEMBERS: 03

Prof. Rohit Parmar

Prof. Kavindra Jain

Prof. Parthesh Mankodi

Virtual Industrial visit was carried out at SPRERI Vallabh Vidyanagar on 13th March 2021. The main objective behind the visit was to make students aware about the renewable energy resources, its application, and the role of engineers in developing these sources of energy.

Sardar Patel Renewable Energy Research Institute (SPRERI) was established in January 1979 as a result of the initiative taken by a group of foresighted persons led by Late Dr. H.M. Patel and Late Shri Nanubhai Amin.

SPRERI is a non-profit autonomous organization registered as a Society under the Societies Registration Act 21 of 1860 and as a Public Trust under the Bombay Public Trust Act 1950. It has been approved as a Research Association for the purpose of clause (ii) of subsection (1) of Section 35 of the Income Tax Act 1961 and is recognized as a Scientific and Industrial Research Organization (SIRO) by the Department of Science & Technology, Govt. of India.

SPRERI, a leading organization for research and development of renewable energy (RE) technologies, focuses on sustainable biomass conversion and solar energy based solutions, which are technically efficient, economically viable, environment friendly and which meet the needs of society.

MISSION

- To set-up a world class "CENTRE FOR ADVANCED RESEARCH IN BIOMASS CONVERSION TECHNOLOGIES"
- To develop environment friendly technologies for conversion of biomass into bio-fuels, energy (including electricity) and useful chemicals
- To develop business models for promoting use of RE technologies
- To provide knowledge based insights to influence policies and programmes of the Governments for utilization of biomass and solar energy technologies for meeting energy requirements
- To provide specialized training in RE technologies to engineers and scientists
- To provide extension support and consultancy to RE programmes
- To test and evaluate RE technologies

LOCATION

SPRERI is situated in Vallabh Vidyanagar, a township about 5 km from Anand, the milk capital of India. It has been named after Sardar Patel whose ancestral home and village is in nearby Karamsad. Well connected by road and rail, Vallabh Vidyanagar is 75 km from Ahmedabad and 40 km from Vadodara. Ahmedabad and Vadodara are the two linking airports.

Research and Development activities are organized under following Divisions:

- **Solar Energy Division** is carrying out design, development, evaluation and refinement of solar thermal and SPV systems
- **Regional Test Centre**, approved by Bureau of Indian Standards and MNRE, carries out testing of various solar thermal devices such as solar cookers, solar water heaters etc.
- **Bio-Conversion Division** pursues basic studies and development of technologies and systems for conversion of biomass to energy carriers through various biological routes and their utilization for thermal applications and power generation.
- **Thermo-Chemical Conversion Division** is engaged in basic studies and development of technologies and systems for efficient conversion of biomass to energy through thermo-chemical / mechanical pathways and their use for thermal applications and power generation.
- **Technology Transfer Division** facilitates promotion of new RE technologies through field evaluation, demonstrations, trainings and entrepreneurship development, awareness programmes and integrated development of selected tribal villages.

SCHEDULE & PHOTOS



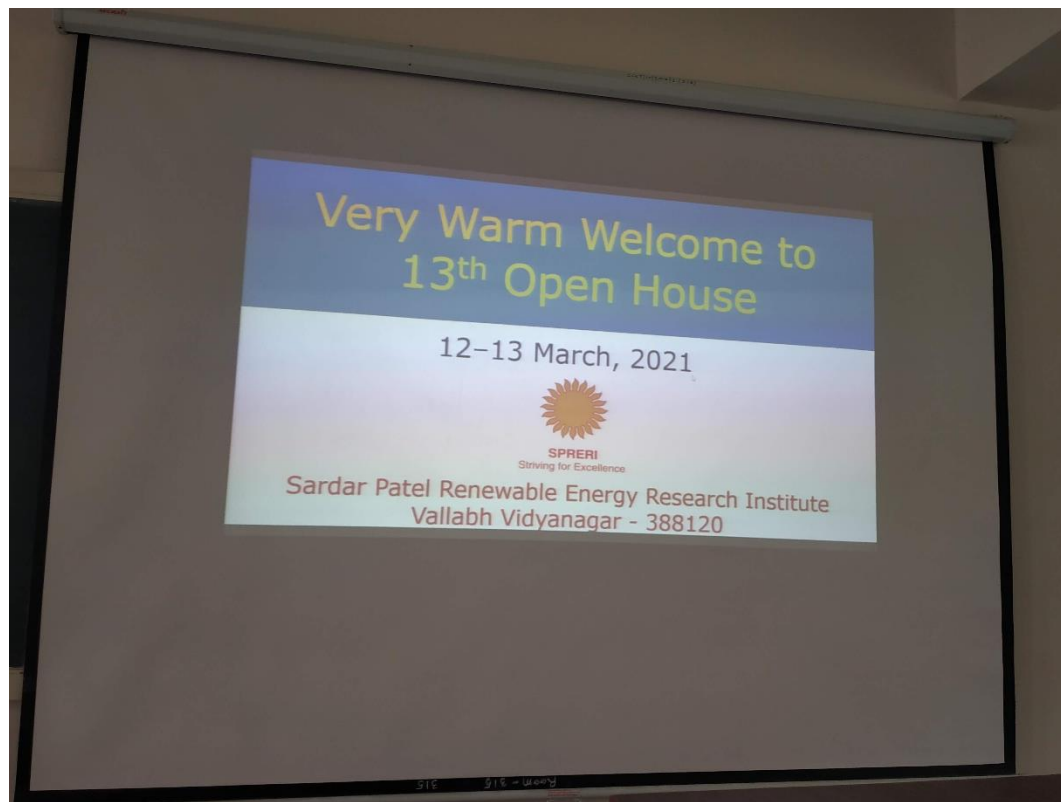
SARDAR PATEL RENEWABLE ENERGY RESEARCH INSTITUTE
P.B.NO.2, NR. B.V.M. ENGINEERING COLLEGE
VALLABH VIDYANAGAR – 388 120, GUJARAT
Telephone No. (02692) 231332 & 235011, Email: info@spreri.org

The 13th OPEN HOUSE

Agenda

Day 2 (13th March 2021)

Time	Session 3 (10:00 AM to 12:30 PM)	Speaker
10:00 AM to 10:30 AM	Solar energy conversion technologies	Er. Falgun Raval
10:30 AM to 11:00 AM	Bio-energy technologies	Er. Siddharth Goswami
11:00 AM to 11:30 AM	Bio-energy from biomass via thermochemical conversion technologies	Er. Urvish Patel
11:30 AM to 12:00 PM	Renewable energy technologies for rural development	Er. Shradhdha Pandya
12:00 PM to 12:30 PM	Video walkthroughs	



13th Open House Programme Session 3



10:00 AM to
10:30 AM



Lecture on
"Solar energy conversion technologies "

Er. Falgun Raval

Solar energy division
SPRERI

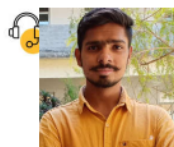
Topics covered

- Basics of solar energy
- Types of solar energy technologies
- In-house developed solar technologies

13th Open House Programme Session 3



10:30 AM to
11:00 AM



Lecture on
"Bio-energy technologies"

Er. Siddharth Goswami

Bio-chemical conversion division
SPRERI

Topics covered

- Bio-gas technology
- Bio-chemical conversion technologies
- In-house developed technologies

13th Open House Programme Session 3



11:00 AM to
11:30 AM



Lecture on
"Bio-energy from biomass via thermo-chemical
conversion technologies"

Er. Urvish Patel

Thermo-chemical conversion division
SPRERI

Topics covered

- Biomass conversion technologies
- Thermo-chemical conversion technologies
- In-house developed technologies

13th Open House Programme Session 3



11:30 AM to
12:00 PM



Lecture on
"Renewable energy technologies for rural
development "

Er. Shradhdha Pandya

Extension division
SPRERI

Topics covered

- Renewable energy technologies
- Rural development