



REPORT OF

One Day Workshop on Standalone Solar PV Plant Design Using PVsyst

February 08, 2025

Organised by

Energy Swaraj Club

Electrical Engineering Department

Faculty of Engineering and Technology

Marwadi University, Rajkot

Report Prepared by: **Prof. Uvesh Sipai**

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Event Summary

Organizing Department

Organized by Energy Swaraj Club of Electrical Engineering Department in collaboration with YAMAS Renewables, Rajkot.

Event Title

One Day Workshop on Standalone Solar PV Plant Design Using PVSyst

Schedule

February 08, 2025 | 9:00 AM to 1:00 PM

Venue:

MB113, MB111

Participants

Students of Electrical Engineering from semester 4th Semester

Resource Persons

Mr. Mohammed Madhia (Student EE), Prof. Uvesh Sipai, Prof. Nirav Joshi

Faculty Coordinator

Dr. Amit Ved

Student Co-ordinator

Mutsago Ropafadzo, Sai Madhava Sakinala, Dhyey Lalani, Ankit Kumar

Objective

The objective of this workshop was to provide participants with an in-depth understanding of standalone solar energy systems, including the design, installation, and operation of solar plants. The session introduced students to solar panel technology, system sizing, and configuration, along with hands-on experience using PVsyst software. This workshop aimed to equip students with the necessary skills to design and implement standalone solar PV systems in real-world applications.

Event Brief

The "Standalone Solar PV Plant Design Using PVsyst" workshop, organized by the Energy Swaraj Club, provided an interactive and practical learning experience for electrical engineering students. The session was conducted by Mohammed Zuserbhai Madhia, a 4th-semester student of Electrical Engineering, with support from Prof. Uvesh Sipai and Prof. Nirav Joshi, focusing on solar power fundamentals, system components, and software-based design.

Mohammed Zuserbhai Madhia initiated the session with an introduction to standalone solar PV systems, highlighting their significance in off-grid applications. He elaborated on different types of solar panels, charge controllers, inverters, and battery storage systems. He explained the essential steps involved in designing and setting up a standalone solar plant, including load assessment, component selection, and system sizing. His insightful session of about 45 minutes established a strong foundation for understanding solar power systems.

Following this, he led the practical session on PVsyst software with support from Prof. Uvesh Sipai and Prof. Nirav Joshi. He started with an introduction to PVsyst, demonstrating the installation process and key features of the software. He guided students through step-by-step

procedures for designing a standalone solar plant using PVsyst, explaining system modeling, energy yield simulations, and report generation. To reinforce learning, participants were assigned a practical task to create their standalone solar plant design. Mohammed Zuzerbhai Madhia provided individual assistance to students, ensuring they successfully completed their projects.

Outcome

The workshop was a resounding success, equipping participants with hands-on experience in designing standalone solar PV systems using PVsyst software. By the end of the session, students had gained a solid understanding of standalone solar power systems, design methodologies, and the use of simulation tools for system evaluation. Participants left the workshop with enhanced confidence and practical knowledge to apply in their future solar energy projects.

Notice / Poster of the Event



Energy Swaraj Club of
Department of Electrical Engineering organizes **One Day Workshop on**

STANDALONE SOLAR PV PLANT DESIGN

using PVsyst

organized in collaboration with **YAMAS Renewables**, Rajkot.

Time: 09:00 AM **Date:** February 08, 2025

Location: MB113

Resource Person:

MOHAMMED MADHIYA
PROF. NIRAV JOSHI
PROF. UVESH SIPAI

Faculty Co-Ordinator:

DR. AMIT VED

Student Co-Ordinator:

MUTSAGO ROPAFADZO, SAI MADHAVA SAKINALA,
DHYEY JAYESH LALANI, ANKIT KUMAR



Photographs of the Event







List of Participants

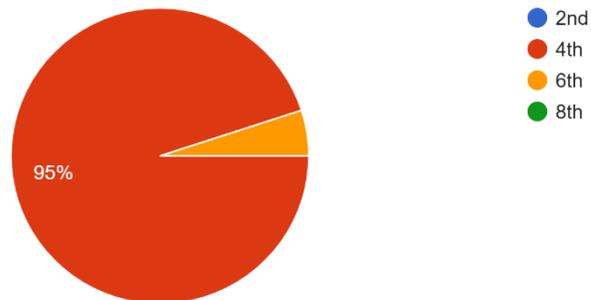
Total Number of students Participated: 20

Sr. No	Name	Sem	Enrolment No.	Gr No.
1	MAYELE JULIUS	4th	92301706001	120654
2	CHIBA EXCEL E	4th	92301706002	120658
3	KLEBER STELIO ADELINO CUNANE	4th	92301706003	120711
4	WRIGHT, DERRICK D.	4th	92301706010	123293
5	YURA DA FLORA JUVENCIO MONTEIRO	4th	92301706011	123470
6	KANHA MANOJ ADHIA	4th	92410106002	125005
7	SHENIF GULABAMI KADIVAR	4th	92410106004	125715
8	HARSH LALITBHAI CHAUHAN	4th	92410106006	128974
9	MANNURU AMEER	4th	92410106007	129309
10	GURRALLA VENKATA SAI	4th	92410106008	129918
11	ADITYA ASHISHBHAI JOSHI	4th	92410106009	130075
12	SAI MADHAVA SAKINALA	4th	92410106012	131528
13	ABHINAV NAKKA	4th	92410106013	131529
14	THAKUR NITHIN SINGH	4th	92410106014	131545
15	DEVULAPALLY VARSHITH	4th	92410106015	132502
16	MOHD AFZAL BABA	4th	92410106017	132914
17	BOMMISSETTY VIVEK VARDHAN	4th	92410106019	133437
18	BHUMIREDDY ROHITH BHARGAV REDDY	4th	92410106020	129597
19	DHYEY JAYESH LALANI	6th	92201706006	115953
20	MUTSAGO ROPAFADZO	6th	92201706007	116873

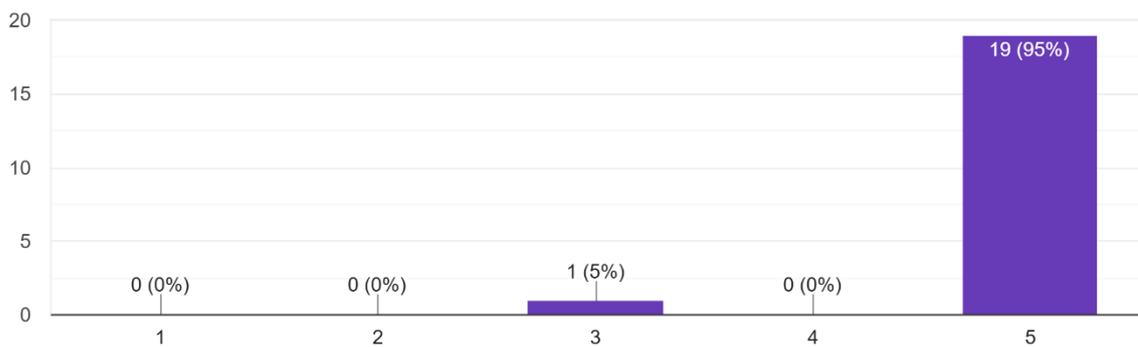
Head of the Department
Electrical Engineering
Marwaha University

Feedback of Event

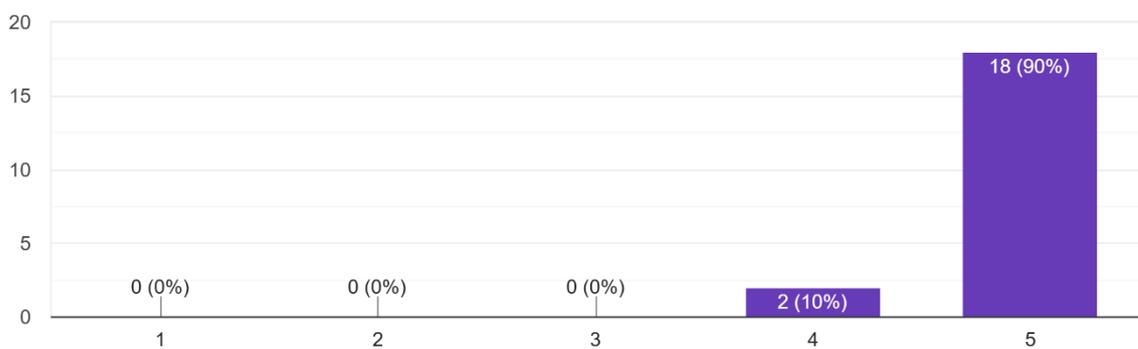
Semester
20 responses



How would you rate your overall experience of the workshop?
20 responses

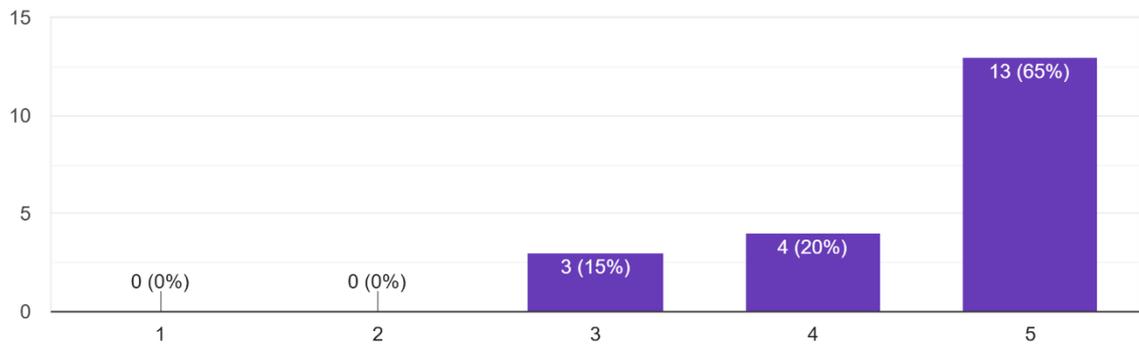


How satisfied were you with the organization of the workshop (communication, venue, schedule, etc.)?
20 responses



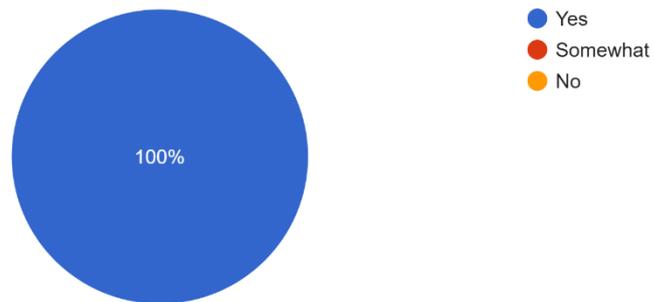
How would you rate the knowledge and delivery of the expert/resource person?

20 responses



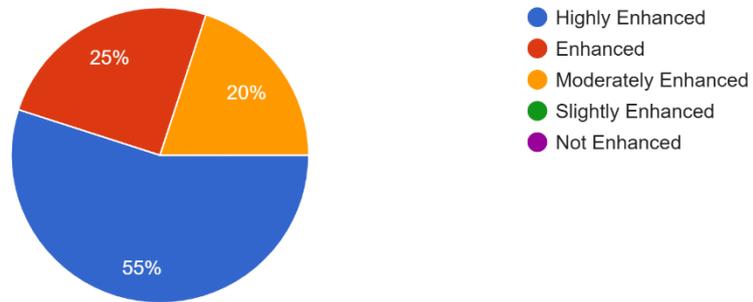
Were the sessions interactive and engaging?

20 responses



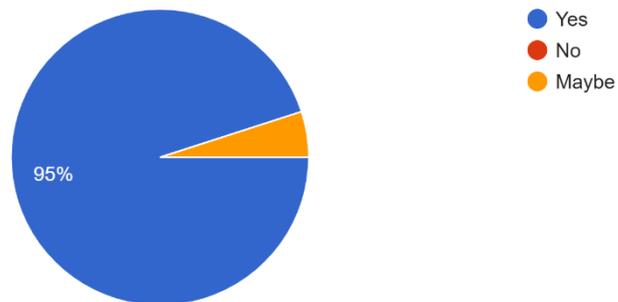
To what extent did the workshop enhance your skills and knowledge on Solar PV Plant Design and PVSyst software?

20 responses



Would you be interested in participating in similar workshops or events in the future?

20 responses



Sample Certificate



YAMAS
MARWAJI YOUNG GREEN ECONOMY

Energy Swaraj Foundation
Energy by Locals for Locals

ENERGY SWARAJ CLUB
ELECTRICAL ENGINEERING DEPARTMENT

FACULTY OF ENGINEERING & TECHNOLOGY

Marwadi University
Marwadi Chandarana Group

NAAC A+

CERTIFICATE OF PARTICIPATION

This is to certify that

ABHINAV NAKKA

of Marwadi University, Rajkot has participated in the One Day Workshop on **Standalone Solar PV Plant Design using PVsyst** organised by Energy Swaraj Club of Electrical Engineering Department, Marwadi University, Rajkot in collaboration with YAMAS Renewables, Rajkot on February 08, 2025.


Co-ordinator
Dr. Amit Ved


Discover Your True Potential!


Head of Department - EE
Dr. Nishant Kothari



YAMAS
MARWAJI YOUNG GREEN ECONOMY

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FACULTY OF ENGINEERING & TECHNOLOGY

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Dr. Nishant Kothari