

REPORT

KCW-CARES Centre for Energy Studies

Hands -on-Training: "Rooftop Solar Sizing"

Date: 6th February 2025

Target Audience: B.Sc Chemistry Students 52

Number of Beneficiaries: 52 (Final Year B.Sc Chemistry Students)

The hands-on training program titled "Rooftop Solar Sizing" was conducted to provide practical insights into the design, and energy calculation of rooftop solar grids. The initiative aimed to empower non-physics based undergraduate students with the technical know-how and skills required for calculating the base energy requirement for energy management, aligning with global efforts toward renewable energy adoption. Ms. Prahashitha, delivered insightful addresses on the importance of rooftop solar grids in the context of India's energy transition and the base calculation for the house hold power requirement and the size of solar installation required for the necessary power requirements.

One-day training included theoretical sessions workshop covering:

- Understanding Household Energy Consumption.
- Basics of electrical power (W, kW, kWh)
- Common household appliances and their power ratings.
- Practical Energy Calculations.

Participants were given hands-on experience in sizing a rooftop solar system based on energy needs.



