K.R. MANGALAM UNIVERSITY
THE COMPLETE WORLD OF EDUCATION

Report on

Awareness on Sustainable Agriculture and Solar Pump Irrigation

Date: 27th October 2023
Venue: Garhi Wazidpur Village, Gurugram
Event Type: Awareness Session and Demonstration
Mode of Activity: Offline
Target Group: Farmers, NSS Volunteers, and Students of School of Agricultural Sciences
Coordinators: Dr. Neeraj Kumari (NSS Coordinator), Dr. Neha Sharma (SOAS)
Organized by: NSS, K.R. Mangalam University in collaboration with School of Agricultural Sciences
Participants: 25 (including local farmers, NSS volunteers, and faculty

Introduction:

In line with India's vision for sustainable agriculture and renewable energy adoption, NSS at K.R. Mangalam University organized an awareness session on sustainable agriculture practices and solar pump irrigation on 27th October 2023 at Garhi Wazidpur Village. The program aimed to sensitize farmers and students about eco-friendly farming techniques, efficient water management, and the benefits of using solar energy to reduce dependency on fossil fuels and minimize greenhouse gas emissions.

Objectives:

- To raise awareness about sustainable and climate-resilient farming techniques.

- To promote solar-powered irrigation as a clean energy solution in agriculture.
- To reduce water and energy wastage through modern, efficient irrigation systems.
- To strengthen rural participation in India's clean energy transition.

Content:

The session began with an introduction by Dr. Neeraj Kumari, who emphasized the importance of integrating sustainable agriculture with renewable energy. Dr. Neha Sharma presented the working of solar irrigation pumps, highlighting their advantages over conventional diesel or electric pumps in terms of cost savings, energy independence, and reduced emissions.

A live demonstration of a solar pump was conducted to showcase its operational efficiency, easy maintenance, and suitability for small and medium-scale farmers. The farmers were also informed about government schemes and subsidies (such as PM-KUSUM) that support the installation of solar irrigation systems.

Interactive discussions were held to address farmers' concerns about cost, maintenance, and water availability. Students actively participated in explaining the environmental benefits of solar irrigation, particularly its contribution to lowering carbon emissions and promoting sustainable rural livelihoods.

Event Outcome:

- Farmers and students gained awareness about solar energy applications in agriculture.
- Promoted SDG 7 (Affordable and Clean Energy) and SDG 13 (Climate Action).
- Encouraged adoption of renewable energy solutions to enhance productivity and reduce operational costs.
- Strengthened university-community partnerships for sustainable development.

Conclusion:

The session successfully enhanced participants' knowledge of climate-smart agriculture and clean energy applications. Farmers expressed interest in exploring solar irrigation systems for

their fields. The initiative strengthened the university's commitment to community engagement, environmental conservation, and energy transition.

Photo 1: Empowering Farmers through Sustainable Agriculture and Solar Pump Irrigation