



## **UNNAT BHARAT ABHIYAN (UBA)**

**Webinar- Renewable energy technologies for enhancing livelihood of rural people conducted by RCI, TNAU**

### **Activity report**

<b>Name of the Event:</b>	Webinar- Renewable energy technologies for enhancing livelihood of rural people
<b>Date:</b>	05.11.2024
<b>Time:</b>	03.00 pm
<b>Guest Speaker:</b>	Dr. D. Ramesh Professor and Head Renewable energy engineering, AEC & RI, Tamil Nadu Agricultural University(TNAU)
<b>Platform</b>	Online
<b>Event Main theme:</b>	Renewable energy technologies
<b>Number of Direct Beneficiaries:</b>	5
<b>Total Number Of Participants:</b>	5
<b>Diversity of the Activity:</b>	Renewable energy technologies
<b>Outcome:</b>	Faculty got an idea about the renewable energy technology for rural people
<b>Event link:</b>	<a href="https://meet.zoho.in/cvFQBdDmGi">https://meet.zoho.in/cvFQBdDmGi</a>

### **Report:**

Faculty members of UBA - RVSCAS attended the webinar titled “*Renewable Energy Technologies for Enhancing the Livelihood of Rural People*” conducted by RCI-TNAU on November 5th, 2024. The session primarily focused on renewable energy technologies and their potential to improve the livelihoods of rural communities.



### Poster

The poster features a dark blue background with a yellow and grey wave-like design at the bottom. At the top, there are three logos: the RVS CAS logo, the Unnat Bharat Abhiyan logo, and the Institution's Innovation Council logo. The main text is in white and yellow, announcing a webinar on renewable energy technologies for rural livelihoods. A circular portrait of Dr. D. Ramesh is positioned on the right side. The date and time are listed at the bottom left, along with a 'JOIN US' button and a meeting link.

**WEBINAR**  
**RENEWABLE ENERGY TECHNOLOGIES FOR  
ENHANCING LIVELIHOOD OF RURAL  
PEOPLE**

**GUEST SPEAKER**  
**Dr. D. Ramesh**  
Professor and Head  
Renewable Energy Engineering  
AEC & RI, TNAU



**05, November, 2024**  
**3.00 - 4.00 PM**

**JOIN US**

<https://meet.zoho.in/cvFQBdDmGi>



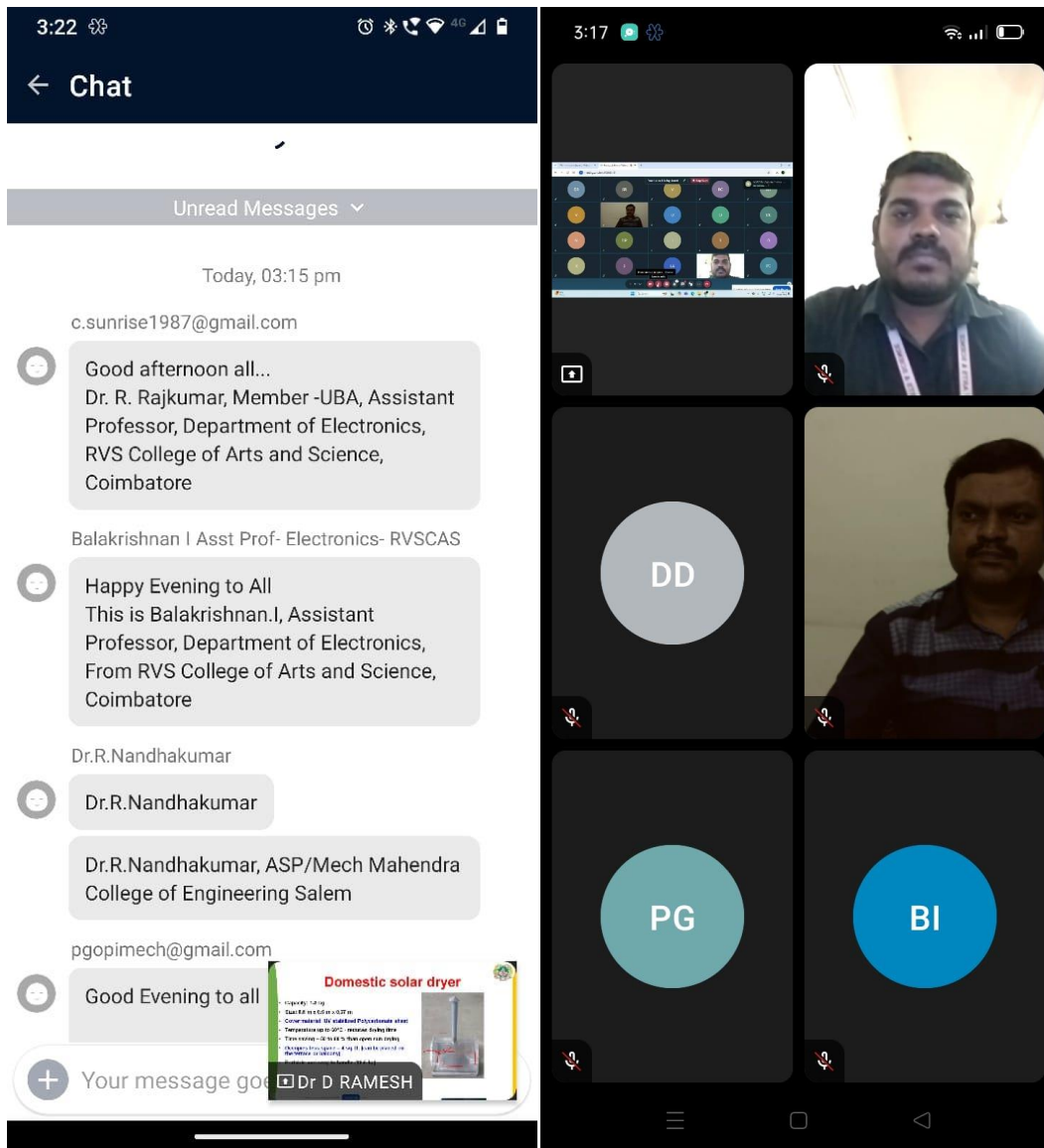
### **Participant details**

<b>S. No</b>	<b>Name</b>	<b>Designation &amp; Department</b>
1	Mr. S. Anandasaravanan	Associate professor, Department of electronics
2	Dr. Saravana Kumari. P	Associate Professor, Department of Microbiology
3	Dr. R. Rajkumar Member -UBA	Assistant professor, Department of electronics
4	Dr. G.Sankar Member-UBA	Assistant professor, Department of Electronics
5	Mr. I . Balakrishnan	Assistant professor, Department of Electronics

**Coordinator-UBA**



### Event Screen short





**RVS COLLEGE OF ARTS AND SCIENCE**  
**Autonomous & Affiliated to Bharathiar University**  
**Accredited by NAAC with 'A+' Grade**  
**242-B, Trichy Road, Sulur, Coimbatore**



The top section of the image shows a Zoom meeting grid. The top-left tile displays a slide titled "Solar Energy" with handwritten notes "The" and "L". The top-right tile shows a video feed of Dr. D. Ramesh. Below these are three empty participant tiles labeled "DA", "C.", and "VI". A notification in the center of the grid states "13 1357363433 had Left".

The middle-left section shows a Zoom chat window titled "Renewable Energy Technologies for Enhanc...". It displays messages from S. ANANDASARAVANAN and Dr. N. Anjutha prabha. Dr. N. Anjutha prabha's message reads: "Good Evening Sir!!! This is Dr. N. Anjutha prabha Assistant Professor, Department of Food Science and Nutrition Nehru Arts and Science College Coimbatore". S. ANANDASARAVANAN's response reads: "Assistant Professor, Department of Electronics, RVS College of Arts and Science, Sulur, Coimbatore".

The middle-right section shows a Zoom meeting grid with participants A, DR, and I. The main screen displays a slide titled "Compound Parabolic Solar Dryer" with the following details:

- Mixed mode Compound Parabolic Collector**
  - (1) CPC embedded with evacuated tube air heater (2.1m<sup>2</sup>) &
  - (2) Transparent vertical drying chamber (7 m<sup>2</sup>) with polycarbonate collector
- Auto-controls** to maintain desired drying temp.(45-65°C) & RH (50%) uniformly
- Product quality is better than the commercially available products**
- Drying capacity** : 25 kg/batch (Fruits and Vegetable)
- Trays** : 60 Nos. food grade HDPE multi stack
- Maximum drying temperature** : 65 °C
- Overall thermal efficiency** : 20 %
- Cost of the system** : Rs. 2.5 lakhs
- Cost of drying**
  - Jack fruit flakes Sapota bars : Rs.93/kg
- Target Beneficiary/Users** :
  - Farmers/Farmer Producer Organizations
  - Small scale growers/Women Self Help Groups

The slide also includes two photographs of the solar dryer system, labeled 1 and 2.

The bottom section shows a Zoom meeting grid with participants A, DR, and I. The main screen displays a slide titled "Source of Energy" with a flowchart and images of energy sources:

- Source of Energy**
  - Renewable (can be replenished)**
    - Biofuel
    - Solar energy
    - Hydropower
    - Wind
    - Biogas
    - Tidal energy
    - Energy from urban waste
  - Non-Renewable (cannot-replenished)**
    - Coal
    - Natural gas
    - Nuclear fuel

The slide includes images of solar panels, wind turbines, hydroelectric dams, and nuclear power plants.



VCS - Services using renewable energy technologies

The diagram illustrates three renewable energy services:
 

- Biomass Briquetting:** Shows agricultural waste being processed into briquettes.
- Biochar Production:** Shows the production of biochar from biomass.
- Solar drying:** Shows the use of solar energy for drying agricultural products.

SA IN PS

Renewable Energy Technologie... 31:58

Subsidies for Polycarbonate sheet covered green house type Solar drying unit (400, 600, 800 & 1000 sq.ft.) (in Tamil Nadu)

40% of the total cost of the Solar drying unit will be directly paid to the farmer's account as back ended subsidy.

- Additional 20 percentage subsidy will be provided for small and marginal farmer belongs to SC/ST category

Cost:

400 sq ft.	- Rs. 3.06 lakh
600 sq ft.	- Rs. 4.44 lakh
800 sq ft.	- Rs. 5.72 lakh
1000 sq ft.	- Rs. 7.14 lakh

The Agricultural Engineering Department (AED) of Tamil Nadu offers a subsidy of up to 60% for solar dryer installation, with a maximum of Rs. 3.50 lakh per farmer

Dr D RAMESH

Dr Sa... (Me) Dr D RAMESH induramgr...