

From the Q1 of CES CAREs



Impacting Lives

- 30 households in Meghalaya and Palghar were facilitated with access to clean water.
- 56 tribal students trained at Biosar on EV assembly technician program for two and three wheelers, 27 in Tuensang on DRE food processing and packaging, and 4 at Balmoram on RE mineral water bottling unit.
- 11 grassroots jobs created through the deployment of productive-end-use applications
- 700 lives impacted through our multi-faceted programs



Our Vision

To have a world-wide impact in the areas of energy access and livelihood, to accelerate the commercial application and scalability of new energy technologies and their productive end use and to provide the highest level of rural energy insights and services to our clients world-wide.

Editor's Note

Dear Readers,

In Q1 2024, CES CAREs shares its transformative journey of rural energy access and economic developments . Explore impactful case studies and Q1 updates, celebrating successes and forging new partnerships. Together, we empower communities with clean energy for sustainable development, fostering brighter futures. Join us in this journey of positive change.

Warmly,
Muskan Jain
Program Associate
Energy Access and Livelihood

Effective Utilization of Solar Water Pumps

In Junnar, solar water pumps were previously utilized upto 27-35% for irrigation. To maximize solar energy, surplus power from a 3kW solar system was used to establish a mineral water bottling unit equivalent capacity for water pumping, water filtration and chilling units. This intervention boosted solar usage from 40 kWh to 140 kWh monthly, producing 1000 liters of clean drinking water daily and creating 56 days of local employment in 2 months. With a monthly revenue of approximately INR 50,000 and a total profit of INR 16,500, this self-sustaining model addresses underutilization of the resource and enhances the income. Replicating productive end use model (one such demonstrated here) among an estimated 3 lakh pumps nationwide could drive sustainable development and empower rural entrepreneurs by enhancing their income.



IMPACT

JUN 23'-JAN 24'- 40kWh
(Before intervention)

FEB 24'-MAR 24'- 140 kWh
(After intervention)

Increased Energy Utilization-
100kWh (250%)

Employment Days Generation- 54
days (in 2 months)

Bottles Generated- 50 per day

Project Cost- INR 3,20,000/-

Entrepreneur- Ashish Bhor

Partner- Ecozen

Contact Us

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UPDATES FROM THE Q1



TECHNOLOGY DEPLOYMENT

- Installations of DRE-powered Groundnut Decorticator in Kanasa and an energy-efficient pulses milling unit in Sakshi Gopal, in the state of Orissa.
- DRE powered mini rice-mill deployment at Rikwa, Jharkhand.
- Deployment decentralized renewable energy powered groundnut decortivating unit on Chitan Dinka mini-grids site with Engie Energy Access in Zambia



CLEAN WATER TO COMMUNITY

Through a solar based portable clean drinking water and lift irrigation project in Palghar, Maharashtra, almost 30 households now have access to clean water.



ACHIEVEMENTS

- CES CAREs shared the stories from grassroots in representation of P Akhala (L) and Suklin Dohling (R) from Nagaland and Meghalaya at Rang De's Groundbreaker Challenge. They were awarded INR 75,000 and INR 50,000 in cash prizes to support the growth and sustainability of their businesses.



UNDP PARTNERSHIP

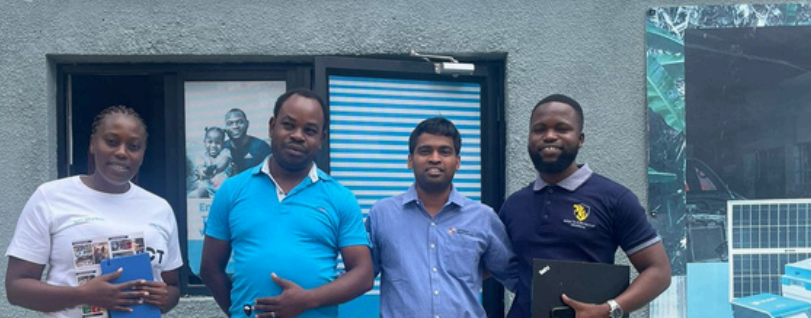
- Completed the first milestone inception report for the UNDP project.
- Identified sites & beneficiaries for powering 160 livelihoods in Meghalaya and Nagaland



CAPACITY BUILDING INITIATIVES

- DRE-based 4 day food processing and packaging workshop in Nagaland, with 27 participants, in Tuensang.
- Organized training for 4 trainees at mineral water bottling unit in Balmoram, Garo Hills, Meghalaya.
- EV Center of Excellence at Boisar: 56 rural tribal youths were supported through training on technician program for two-wheelers and three-wheelers

Exploring New Partnerships



ENGIE

CES CARES is thrilled to share the news of a strategic collaboration with Engie Energy Access Zambia, concentrating on decentralized renewable energy (DRE) productive end-use applications in Africa. The primary goal is to promote rural economic development & enhance utilization of micro-grid.

IIT- Bombay



Indian Institute of Technology Bombay

Centre for Technology Alternatives for Rural Areas (CTARA)



CES CAREs will be collaborating with IIT Bombay, Ru-Tag (Rural Technology action group) for rural economic development through effective end-use technologies such as:

- Multi-purpose Decorticator
- Bamboo polyhouse
- Solar Hydro Distiller
- Portable lift for cattle
- Solar Chai Thela
- Intelligent Charge Controller for lead acid batteries

Outreach Initiatives

Informative Articles

- Informative and interesting articles shared on different topics via CES CAREs social media handles.
- Awareness on Water Scarcity: <https://shorturl.at/V4oNP>
- Plastic Waste Management: <https://rb.gy/ns405s>
- Development of Rural India through Clean Energy: <https://rb.gy/5z44iw>



India: 18% of World Population, 4% of Global Water Resources

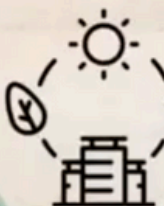
Podcasts

CES CAREs gives platform to voices of change through MicroCast. Some of these are:

- Women in STEM: <https://rb.gy/fc4l0t>
- Economic Development and Energy Access: <https://rb.gy/q9znig>



“DRE can be branded as the energy for women.”
-Svati Bhogle



Customized Energy Solutions

Customized Applications for Rural Economies (CAREs)