

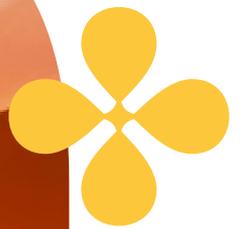


CLEAN
Create. Connect. Collaborate.



WATT MATTERS 2025

WEEKLY MEMBER SPOTLIGHTS



ENVO RENEWABLE ENERGY SERVICES

📍 ASSAM

📅 EST. 2018

⚙️ SOLAR SOLUTIONS

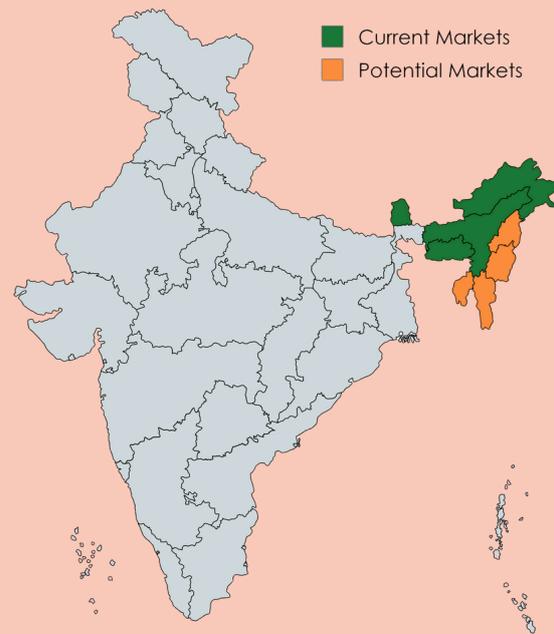
ABOUT

Envo Renewable Energy Services was established in 2018 by Fazle Muztaba, a former banker who returned to Assam in 2012 in search of meaningful opportunities in his home state. His participation in the first batch of SELCO's training on decentralized renewable energy (DRE) sparked a deep interest in using solar technologies to address the development challenges of Northeast India.

Since then, Envo has focused on designing and deploying innovative solar-powered solutions that respond to the unique needs of underserved communities. Its work spans multiple sectors—healthcare, disaster relief, education, livelihoods, and community lighting—demonstrating how clean energy can be a foundation for resilience and opportunity.

From powering health centres and schools to solarising rescue boats during Assam's floods, Envo's interventions go beyond electricity access. They create lasting social and economic impact, enabling communities to thrive in the face of both everyday challenges and climate-linked crises.

Current Markets	Potential Markets
Arunachal Pradesh, Assam, Meghalaya, Sikkim	Manipur, Nagaland, Mizoram, Tripura



Map. Current and Potential Markets

SOLUTIONS & SERVICES

Through DRE, ERES delivers critical solutions across sectors—ensuring healthcare, disaster relief, lighting, livelihoods, and education reach even the most underserved communities.

Healthcare Access

Decentralized Renewable Energy (DRE) is enabling reliable healthcare in remote areas where grid power is unreliable or absent.

- **Powering Clinics:** Solar systems run diagnostic machines, oxygen concentrators, incubators, and lighting.
- **Telemedicine:** Reliable energy supports digital connectivity, linking rural patients to urban doctors.
- **Maternal & Child Health:** Solar lighting ensures safe childbirth and emergency care at night.
- **Mobile Health Units:** Solar-powered vans provide vaccinations, check-ups, and health awareness to isolated communities.

Disaster Relief

In flood-prone Assam, where conventional power often collapses, DRE provides immediate and sustainable solutions.

- **Solarised Rescue Boats:** Equipped with lights and charging points, enabling 24x7 rescue during floods.
- **Integrated Energy Centres (IECs):** Solar hubs set up in affected villages for lighting and mobile charging.
- **Community Resilience:** IECs not only restore electricity quickly but also create small income opportunities for caretakers.

Lighting Solutions

Clean, affordable lighting is a cornerstone of safety, productivity, and quality of life in underserved areas.

- **Homes:** Solar lanterns and home systems replace kerosene, reducing hazards and extending evening study and work hours.
- **Community Spaces:** Solar-powered hubs light schools, markets, and clinics, enabling activities beyond daylight.
- **Streets & Public Spaces:** Stand-alone solar streetlights improve mobility, safety, and local commerce.



Sector	Impact
Healthcare Access	1000+ centres powered
Disaster Relief	100+ solutions deployed
Lighting Solutions	300+ systems installed
Livelihood Solutions	500+ solutions enabled
Education	2000+ students benefited

Table. Sectoral Impact

Livelihood Solutions

Access to reliable energy is unlocking new opportunities for rural entrepreneurs and farmers.

- **Agriculture:** Solar pumps and cold storage boost crop yields and reduce post-harvest losses.
- **Micro-Enterprises:** Energy powers food processing, carpentry, and textile units, driving local businesses.
- **Women's Empowerment:** Energy-efficient tools enable women-led enterprises and financial independence.

Education

Reliable energy is vital for better learning environments and digital access in underserved schools.

- **Smart Classrooms:** Solar-powered LED lighting, projectors, and e-learning tools enhance teaching.
- **School & Hostel Power:** Solar plants ensure uninterrupted electricity for study, water, and basic needs.
- **Cost & Sustainability:** Reduced energy bills allow more investment in resources while lowering carbon footprints.
- **Community Impact:** Electrified schools also serve as hubs for after-school programs, adult learning, and skill training.



MARKETS

To make DRE solutions affordable and scalable, ERES adopts a mix of innovative financial models tailored to community needs and institutional support:

- **Blended Finance:** Supported partly by grants, with beneficiary contributions and additional funds raised through CSR, donations, or community support.
- **Loans & Credit Support:** Enabled through partners like MBMA and schemes such as the National Rural Livelihood Mission (NRLM) and PM Formalisation of Micro Food Processing Enterprises (PMFME).
- **Direct Beneficiary Contribution:** Households or entrepreneurs contribute upfront towards system costs, ensuring ownership and accountability.
- **Pay-per-Use Models:** Beneficiaries pay small recurring fees for energy/services (for IECs), making solutions affordable without large upfront costs.

- **Healthcare Centres-60%**
- **Livelihood Solutions-20%**
- **Community Lighting-15%**
- **B2G-5%**

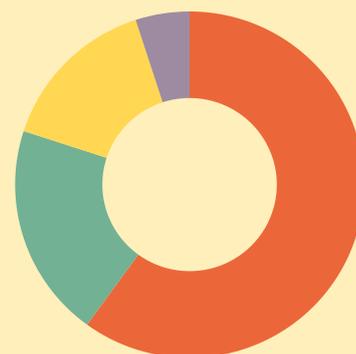


Chart. Sectoral Distribution

IMPACT

Income Increase

- Agri- Processing Units: ₹4,000–8,000/month
- Solar pumps: 20–30% higher seasonal income
- Spinning, Weaving, Tailoring Units: ₹3,000–7,000/month
- Photocopy/Printing Centres: ₹8,000–12,000/month
- Saloon Trimmers & Petty Shops: ₹5,000–8,000/month

Livelihood Impact

- 500+ direct jobs across agriculture, enterprises & rural services
- 400–500 indirect jobs in supply chains, repair, transport
- ~5,000 households benefitted
- Women account for 40–45% of all livelihoods created

Environment Impact

- 3.25 MW decentralized solar installed
- Generates 4.3 million kWh of clean electricity annually
- Avoided emissions: 3,546 tCO₂e annually



Way Forward

ERES plans to scale the proven DRE models across the Northeast and expand into new geographies, introducing productive-use technologies that create income and resilience. With innovation in hybrid systems, digital services, and Energy-as-a-Service models, ERES is building long-term sustainability. By forging partnerships with governments, NGOs, and global agencies, it aims to embed DRE into rural development and climate action while preparing for expansion into new markets with strong networks and measurable impact.



Alignment with SDG Goals



CONTACT

 support@thecleannetwork.org

 info@eres.co.in