

## Solar energy for remote rural areas



## Institute id-eee

We are a private institute for applied research and project management based in Ulm (Germany).

We initiate decentral electrification via training and coaching of solar entrepreneurs.

We support the development of remote rural areas by outlining business opportunities for productive use of energy.

Education > Entrepreneurship > Electrification

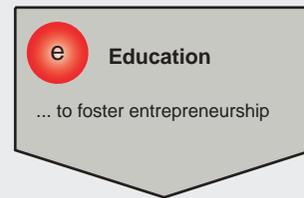
## Our Mission

The institute's objective is to support the sustainable economic and social development of less developed rural areas especially in Africa, Asia and Latin America. Based on the principle of help for self-help, multinational and interdisciplinary projects will be initiated, carried out or coordinated and last but not least, evaluated to support decentral electrification.

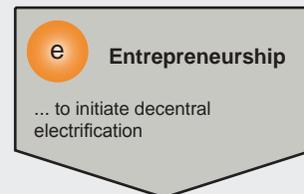
We aim to introduce off-grid solar systems as a cheap, safe and environmentally friendly alternative to the use of fossil energies. Based on this, the institute understands rural electrification as a way to improve family life, to deliver options for new kinds of power application, to offer additional job opportunities and finally to increase skill levels of involved people.

### The triple E approach:

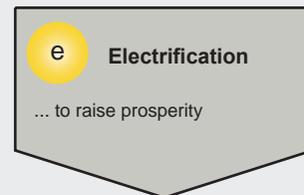
#### Education - Entrepreneurship - Electrification



Teaching trainees how to operate and repair small pv-systems and how to set-up a small business.



Coaching young entrepreneurs during the start-up phase and helping them to raise the seed money.



Informing local customers how to use electricity for family life as well as for work and business.

## Offered Services

### 1. Education & Trainings for Entrepreneurship

We deliver trainings on all issues needed for "solar entrepreneurship" with regard to basic knowledge on photovoltaic, repair and maintenance of small solar systems, and basics on how to run a small business. We develop learning materials for trainers and trainees.



Entrepreneurship training

### 2. Technology Development & Consulting

We test equipment & systems for the use of solar energy with regard to efficiency, safety & sustainability and investigate corresponding improvement potentials. We consult companies producing respective equipment with regard to technical, market and customer-related questions.

### 3. Project Management

We proof project concepts, monitor running projects and consult involved stakeholders. We coach project leaders and integrate them within a network in which experiences are shared.

### 4. Productive Use of Energy

We develop applicable business models to use solar energy to support small businesses as e.g. services, manufacturing and farming.

**We link universities, companies and other institutions from North and South to transact these activities.**

## Finalized and Current Projects

With two initial projects, the success of our approach could be proofed. These projects started in 2008 in Ethiopia and in 2009 in Mozambique and led ground for successful trainings of young entrepreneurs and helped them starting a "solar business" bringing solutions for decentral electrification to rural areas. The projects were by GIZ (Ethiopia) and DEG plus private companies (Mozambique).

Overview on newly started project activities:

	Ethiopia	Liberia	Uganda
Start	2012	2012	2012
Locations	Adama, and Bahir Dar	Monrovia	Kampala
Financial partners	GIZ, Germany	GIZ, Germany	GIZ, Germany
Local partners	Adama University, and Bahir Da University	Cooperation agreements in preparation	CRECC, Uganda, and serveral partners

With other financial partners, further projects are in preparation for Kenya, Tanzania, Rwanda and Indonesia.



A Mongolian family achieving decentral electrification

## Research and Knowledge Generation

We work continuously to improve the design, the management and the performance of projects and project management. We carry out empirical research on the socio-cultural, economic and environmental impacts of solar electrification in remote rural areas.

With regard to these objectives, we uphold close collaboration to the following research institutions:

- University of Oldenburg, Department of Physics (Germany)
- National University of Singapore, Solar Energy Research Institute of Singapore (SERIS)
- Ulm University of Applied Sciences (Germany), Department of Mechatronics
- Neu-Ulm University of Applied Sciences (Germany), Center of Corporate Management.

## Quality Control and Supervision

As a private research center, we are committed to upholding scientific quality of research, quality of project management and ethical standards. To keep up with these objectives, the institute has submitted itself to the control of an additional body named Wissenschaftliche Leitung (Scientific Management Board).

This Board is comprised of two academic delegates from the institute and two academic members of the international oriented business and management school Neu-Ulm University of Applied Sciences (HNU). [[www.hs-neu-ulm.de](http://www.hs-neu-ulm.de)]



The rights and duties of the institute are set out in a cooperation agreement with the Neu-Ulm University of Applied Sciences.

## Options for Cooperation

In line with our multi-stakeholder approach, we attach great value at being in active exchange and collaboration with people and institutions who share our ideas and objectives.

NGOs, companies, universities, public institutions as well as engineers and scientists are invited to contact us.

## Imprint

**Institute for Decentral Electrification,  
Entrepreneurship and Education GmbH & Co KG**

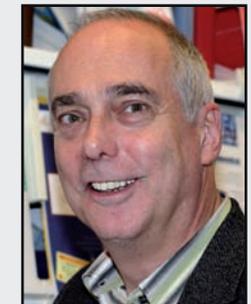
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## Management Board

Founding Directors of the institute:



**Prof. Dipl.-Ing.  
Peter Adelmann, CEO**  
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**Prof. Dr.  
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