

Access to Energy in Rural Areas II

IGEN Access II

Context

India is the world's third-largest energy consuming economy. Although the energy use in India has doubled since 2000, the per capita energy use and emissions are less than half of the world's average. 80% of the country's energy demands are met by conventional sources of energy. Through initiatives like *Ujjwala* and *Saubhagaya*, the Government of India is making efforts to ensure reliable energy supply to every household in the country.

Moreover, India has made commitments at international level to contribute to green and sustainable development goals including the ambitious targets of having 50% non-fossil fuel based installed electricity capacity by 2030 and achieving net-zero by 2070.

However, affordability, reliability, and the quality of the energy supply is still an issue in rural India. In addition, to meet the ambitious targets, the Indo-German development cooperation project 'Access to Energy in Rural Areas II – IGEN Access-II' supported the partner ministry in conceptualising and developing a draft policy framework for the promotion and integration of Decentralised Renewable Energy (DRE) technology in livelihood activities.

Objective

The energy supply in rural areas of selected federal states in India has been improved.

Project name	Indo-German Energy Programme – Access to Energy in Rural Areas (IGEN Access-II)
Commissioned by	German Federal Ministry for Economic Cooperation and Development (BMZ)
Project region	India
Lead executing agency	Ministry of New and Renewable Energy (MNRE), Government of India
Duration	2019 – 2024

Our approach

IGEN Access-II seeks to upscale the proven results achieved in the first phase of the project (2015-2019). The project adopts a holistic approach in the overall planning by assisting the selected states in developing State Energy Plans, disseminating proven models and instruments for improving the basic energy supply, and establishing a conceptual basis for enhancing the energy supply.

The project works under the framework of the Green and Sustainable Development Partnership between India and Germany

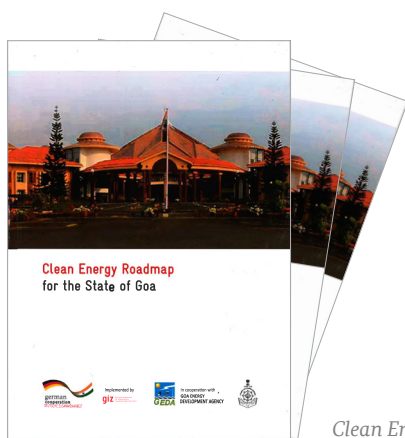
- Strategic energy planning:** Long-term multi-sectoral and data driven energy planning at the state level will align national and state level plans to achieve overall energy security equitably. Increased contributions from renewable energy, including decentralised systems will be used as a strategic option in energy planning.



L. to r.:

Kirana Shop Powered by solar light
Odisha

Solar Dryer in Uttarakhand



Clean Energy Roadmap for the state of Goa

Photo: © Govt. of Goa

- **Proven models and instruments for improving basic energy supply:** Financial service providers will be supported to up-scale the models and instruments to conclude new loan agreements with rural energy users. This will lead to an improved supply situation in rural areas of India.
- **Conceptual basis for improving energy supply quality:** The project will support planned advisory measures to create necessary enabling conditions.

The benefits

IGEN-Access II is expected to yield multiple benefits at different levels by upscaling results achieved under the previous project phase. The following achievements are envisaged over the project period:

- Proven models and instruments for improving basic energy supply are disseminated in selected federal states (like Assam, West Bengal and Odisha). At least 100,000 loan agreements with rural energy users will be concluded by financial service providers supported by the module. In addition, 5,000 renewable energy system providers will be supported.
- Three additional states, namely Goa, Odisha and Punjab, will be supported to prepare Energy Action Plans that ensure long term energy security.
- Eight concepts for improving the energy supply quality under certain specific conditions will be prepared, for instance on biomass exchange and DRE for livelihoods.

While access to energy improved the quality of life for many energy-poor households, about 53 percent of the surveyed women village-level entrepreneurs reported opportunities for income generation and confidence to contribute to household decision-making. IGEN Access-II aims to provide holistic solutions to achieve overall energy security by working at different levels and adopting an ecosystem approach.



L. to r.:
Solar Light for Livelihood Suyal Kuchi
Solar Sprayer in Tomato Value Chain

Photo: © Yeswanth Duraiswamy / GIZ India; © FullMoon Productions

Published by Deutsche Gesellschaft für
Internationale Zusammenarbeit (GIZ) GmbH
Registered offices Bonn and Eschborn, Germany
Indo-German Energy Programme –
Access to Energy in Rural Areas (IGEN Access-II)
First Floor, B-5/2, Safdarjung Enclave
New Delhi-110029, India
Phone: +91-11-4949 5353
Fax: +91-11-4949 5391
Email: nidhi.sarin@giz.de

www.giz.de/India

As at

January 2024

Photo credits Yeswanth Duraiswamy, Fullmoon Production, Govt. of Goa
Text Nidhi Sarin, Programme Head
GIZ is responsible for the content of this publication.
On behalf of German Federal Ministry for Economic
Cooperation and Development (BMZ)