



## Renewable Energy Capacity Building within the International Climate Initiative (IKI)

The International Climate Initiative (IKI) assists partner countries in switching to a sustainable, low-carbon economy. IKI partners receive support in the form of knowledge transfer, technology cooperation, policy advice and investment measures, enabling them to develop and implement appropriate methods and instruments that can be used to advance transformational processes.

Some of the IKI projects focus on capacity development in partner countries. These projects often combine know-how transfer, training of local staff and preparation of studies and concepts. This approach ensures long-term and sustainable results by strengthening the strategic capacity of partner institutions and organisations.

### Examples of Capacity Development Projects within the IKI

Within the framework of the IKI, the Federal Ministry for the Environment, Nature Conservation, Building and Nuclear Safety (BMUB) has commissioned the Renewables Academy (RENAC) to design and manage the following capacity building programmes:

- Transfer Renewable Energy and Efficiency (TREE);
- Capacity Building on Integration of Large Amounts of Renewable Energy in Electricity Grids (ReGrid);
- Capacity Development on Renewable Energy and Grid Integration (CapREG) thematic studies (<http://grein.irena.org>).

These projects aim at building competences that help partner countries to increase the use of renewable energies in order to reduce greenhouse gas emissions, contribute to energy security and create value by stimulating the local economy and providing new jobs.

The key innovation of TREE, ReGrid and CapREG is their holistic approach of providing a long-term vision for developing green energy markets: The integration of different regions, technologies and stakeholders along the value chain ensures that learning objectives are achieved in a sustainable manner.

In order to meet specific regional needs, the trainings are designed based on comprehensive capacity needs assessments. The programmes include tailor-made trainings in the respective countries or at RENAC's Training Centre in Berlin, online trainings at RENAC Online and a mobile exhibition. Through networking activities and workshops the programmes also foster transregional cooperation and exchange of experiences.

### Sustainability, replicability and impact

So far, TREE, ReGrid and CapREG have reached over 2,000 participants from over 110 countries worldwide. The projects promote the replication and dissemination of best practices, as they enable participants to effectively apply and pass on the acquired know-how in their home country. The larger impact of TREE, ReGrid and CapREG is determined by the great diversity of participants – policy makers, engineers and technical staff, financiers or future trainers, among others – who contribute to reshaping the future of green energy markets.



## PROJECT OVERVIEW

### Transfer Renewable Energy and Efficiency

#### TREE 2008 – 2013

TREE was a training project for professionals from the public sector and financing institutions. It offered training on technical, legal and economic aspects of renewable energy and energy efficiency. TREE was recognised as an official project of the “United Nations Decade of Education for Sustainable Development” programme by the United Nations Educational, Scientific and Cultural Organization (UNESCO).

**Reach:** 1,000 participants from over 110 countries

### Capacity Building on Integration of Large Amounts of Renewable Energy in Electricity Grids

#### ReGrid 2011 – 2014

ReGrid demonstrated how large amounts of renewable energy can be safely integrated into the national electricity supply. It was open to public and private decision makers in the energy sector, as well as financial institutions, project developers and NGOs for whom the subject matter was relevant.

**Reach:** 650 participants from Algeria, Egypt, Jordan, Lebanon, Morocco, Libya and Tunisia

### Capacity Development on Renewable Energy and Grid Integration

#### CapREG 2014 – 2016

CapREG is an ongoing, three-year programme on renewable energy and grid integration of large amounts of fluctuating electricity generation. Directed at professionals from the public and private sector, CapREG promotes the creation of suitable framework conditions for the development of renewable energies.

**Reach:** To date, over 500 participants from Indonesia, the Philippines, Thailand, Vietnam, Mexico, Peru and Ecuador

### TREE participant, Indonesia:

*“In December 2009, I installed a photovoltaic off-grid power plant. It was a pilot project in an isolated area. We have encouraged local people to participate in the project. We trained them so that they can maintain the system by themselves.”*

### Certified ReGrid Manager (CRGM®) participant:

*“As an engineer in charge of power generation systems in the Directorate of Electricity, I use the ReGrid knowledge for developing and updating the national plan of power capacity reinforcement for the period 2015-2025.”*

### Links

**TREE:** [www.renac.de/en/reference/reference/195-tree-transfer-renewables-energy-and-efficiency-2008-2013.html](http://www.renac.de/en/reference/reference/195-tree-transfer-renewables-energy-and-efficiency-2008-2013.html)

**ReGrid:** [www.renac.de/en/current-projects/regrid/brochures-for-download.html](http://www.renac.de/en/current-projects/regrid/brochures-for-download.html)

**CapREG Website:** [www.renac.de/en/current-projects/capreg.html](http://www.renac.de/en/current-projects/capreg.html)

**CapREG Brochure:** [www.renac.de/fileadmin/user\\_upload/Download/Projects/CapREG/CapREG-Broschuere\\_oV\\_en.pdf](http://www.renac.de/fileadmin/user_upload/Download/Projects/CapREG/CapREG-Broschuere_oV_en.pdf)

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