



## International Cooperation.

# Across frontiers: Energy policies move the world.

Climate protection does not stop at international borders. Securing energy supply and simultaneously advancing climate protection has become a global issue. The worldwide demand for energy efficiency technologies needed to counter increases in energy costs, while striving to reach climate protection goals is growing significantly.

### **Energy efficiency works worldwide.**

The potential for energy savings and carbon emission reductions is huge – especially in Russia and China. Russia estimates that it could reduce its energy consumption by 40 to 50 per cent by 2020. In the same year, there will be 20 new megacities in China. As a result, China is faced with significant challenges based on limited energy resources. This is a major driver for the increasing interest in renewable energies. Tapping into the global efficiency potentials is largely dependent on the creation of functioning efficiency markets.

### **dena is strong at an international level.**

The Deutsche Energie-Agentur (dena) – the German Energy Agency – is setting an international example with its interdisciplinary systems expertise, thorough understanding of the interaction between markets and regulations, and boasts excellent contact with local experts in commerce and government. dena's aim is to establish bilateral cooperation in the areas of energy efficiency, renewable energies and climate protection. Working closely with relevant national stakeholders, it prepares markets for innovative standards and technologies and ensures the effective transfer of knowledge. dena supports governments in identifying approaches and instruments that will generate sustainable growth and actively promotes the strategic development of pilot projects. The result is best practice projects which, in the medium term, will be suitable for widespread market application – thus opening new export markets for German suppliers and industry specialising in energy efficiency products and energy services.



# dena focuses on international projects.

As the German centre of expertise for energy efficiency, renewable energy sources and intelligent energy systems, dena has gained a strong foothold in international energy efficiency policymaking. It is active in many countries in the areas of knowledge and technology transfer. In its priority markets Russia, China, Central Asia and Turkey, dena develops solutions and implementation strategies at entrepreneurial and state levels, provides know-how, and supports governments in improving policy conditions for energy efficiency.

## **Energy efficiency in China.**

dena has been committed to promoting energy efficiency in buildings in China since 2006, cooperating on state level with

- the Chinese Ministry of Housing and Urban-Rural Development (MoHURD) and the Center of Science and Technology of Construction (CSTC) in China.
- the Federal Ministry for the Environment, Nature conservation, Building and Nuclear Safety (BMUB) in Germany and

Activities focus on coordinating the German-Sino Governmental Working Group, implementing pilot projects on German-Sino efficient buildings and developing standards for energy efficiency in buildings.

Within the scope of the project “Eco-Cities in China”, China and Germany aim at jointly developing solutions to mitigate carbon emissions in the energy system “city”. Patron of the project is the German Federal Minister responsible for building, Dr Barbara Hendricks.

A joint study from dena and the China Renewable Energy Society (CRES) analysed both governments’ energy strategies with particular emphasis on the potentials and challenges for photovoltaic applications in China.

Increasing energy efficiency is the set goal of dena’s cooperation with the National Energy Conservation Center (NECC), an institution with the National Development and Reform Commission (NDRC).

## **Energy efficiency in Russia.**

In cooperation with its partners in Russia, dena develops projects on energy saving and the increase of energy efficiency as well as supervises their implementation and progress. Main focuses are on the increase of energy efficiency in industry and commerce, the introduction of energy services and contracting, the modernisation of electricity and district heating infrastructure, as well as energy-efficient construction. In order to intensify knowledge transfer and develop joint pilot projects, dena brings together experts from German and Russian companies and representatives from ministries on both, federal and regional levels. With the

involvement of German companies, dena provides training programmes for managers and experts from Russian companies, financial institutions and administrations.

## **Energy efficiency in Central Asia.**

dena has taken on an advisory role to the government of the Republic of **Kazakhstan** on developing state measures and instruments designed to improve energy efficiency in industry. dena’s recommendations were adopted as input for a new legislation on energy efficiency and energy savings. In addition to projects for improving energy efficiency in Kazakh industry, energy infrastructure and qualification measures are significant components of the future cooperation.

dena supports the energy ministry of the Republic of **Tajikistan** in the generation and implementation of pilot projects for the development of renewable energies – especially on decentralised / off-grid power supply, biomass, small hydro power and solar power – together with the participation of German companies.

## **Energy efficiency in Turkey.**

dena and the German Federal Ministry for Economic Affairs and Energy (BMWi) will intensify cooperation in the energy sector with Turkey. Joint activities will focus on the areas of energy efficiency and grids, as well as renewable energies, power generation and regulation. The German-Turkish Energy Forum inaugurated in Ankara in April 2013 and aims at providing a forum for boosting the dialogue on energy-related issues between representatives from politics, industry and commerce in the two countries and identifying areas of activity for future cooperation. dena initiated and coordinated the German working group on Energy Efficiency (in buildings and the industry) at the forum.

Collaborating with the Federation of Entrepreneurs’ Associations Germany (BUV), dena places emphasis on German-Turkish project cooperation with the aim of fostering knowledge and expertise transfer and with the involvement of companies and decision-makers from both countries.

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