

Promotion of Renewable Energy and Efficiency Concepts in Cities and Industry in Pakistan

Supporting the Pakistani cities to improve their energy efficiency through implementing energy management systems

Background

Provision of sustainable and sufficient energy supply is one of the major challenges for the Government of Pakistan. Over the recent decades, the need for energy has been on a constant rise due to steady economic growth and increasing urbanisation. The population of Pakistan is projected to increase to 245 million by 2030 with around half living in the urban areas. This will require approximately 3.3 percent annual increase in the energy supply. Pakistan is one of the highest energy intensity countries in Asia. However, until recent past, energy efficiency remained a low priority at the policy level. With rapid urbanisation, city administrations are now starting to adopt measures for increasing energy efficiency. Although some reforms have been introduced in major cities, the energy sector generally remains highly inefficient and places considerable burden on cities' municipal services departments.

Our approach

On behalf of the German Federal Ministry for Economic Cooperation and Development (BMZ), the Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH is supporting the Pakistani government for introducing systematic energy management in selected cities to create a basis for sustainable improvement of the energy situation. The project 'Promotion of Renewable Energy and Efficiency Concepts in Cities and Industry in Pakistan (REEE-SCALE)' supports its partner cities and municipal administrations to introduce Energy Management Systems (EnMS) for enhancing energy efficiency in the operations of selected institutions that are responsible for providing public services.

Project name	Promotion of Renewable Energy and Efficiency Concepts in Cities and Industry in Pakistan
Commissioned by	German Federal Ministry for Economic Cooperation and Development (BMZ)
Lead executing agency	National Energy Efficiency and Conservation Authority (NEECA), Ministry of Energy
Financial volume	EUR 04 million
Duration	06/2020 to 11/2023

REEE-SCALE is in line with the 'Pakistan Vision 2025: One Nation - One Vision' and also contributes to the Strategic Plan 2020 – 2023 of the National Energy Efficiency and Conservation Authority (NEECA).

REEE-SCALE supports the partner cities in the following four areas:

- Introduction of Energy Management System (EnMS) in municipal service departments
- Demonstration of digital energy data management
- Awareness raising and capacity building for implementing no/low investment energy efficiency measures
- Dissemination of best practices and initiation of political dialogue



Pg. 1, Left: Signing of the Implementation Agreement of REEE-SCALE between GIZ Pakistan and Ministry of Energy, Government of Pakistan.

Right: Water treatment in Sangjani water plant that provides water to Islamabad and Rawalpindi. REEE-SCALE is supporting the Capital Development Authority to implement EnMS on the site.

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Pg. 2, Left: Stakeholders' feedback workshop on the Roadblock Analysis on Energy Efficiency in Pakistan's building sector.

Right: Performance based analysis of high-voltage motors (1450 kW) at Sangjani Water Treatment Plant, Islamabad.



Introduction of Energy Management System (EnMS) in municipal service departments

The Project supports selected Pakistani cities and partner municipal administrations to integrate the topic of energy efficiency in their work processes. It supports municipal administrations and public institutions responsible for public service delivery in implementing EnMS. EnMS cover all aspects which significantly influence energy consumption to continuously improve energy savings. The project also supports the development and adoption of instruments for municipal energy management along with providing capacity development support to energy managers.

Demonstration of digital energy data management

REEE-SCALE is supporting selected cities of Pakistan for digital energy data management. It supports one sub-sector in each city (for example, office buildings, water supply and sanitation, streetlights, schools etc.) for implementing digital methods for recording, documenting and analysing energy-related data.

Awareness raising and capacity building for implementing no/low investment energy efficiency measures

The Project supports selected partner cities to strengthen their capacities for implementing no/low investment energy efficiency measures. It supports the partner municipalities to conduct energy audits of selected facilities (for example office buildings, schools, water sector etc.) and supports the development of implementation strategies and piloting of measures for no/low investment energy efficiency in these facilities. Moreover, it is also supporting the outreach activities of the partners, as well as, facilitating knowledge exchange between the partner cities.

Dissemination of best practices and initiation of political dialogue

REEE-SCALE supports its selected partner cities and municipalities to share their lessons learnt and best practices of energy management through the existing energy networks and national promoters. It supports its partners to develop energy policy statements and proposals for improving the conditions for sustainable use of energy in municipal service delivery and present them to policymakers at the provincial and national level. Moreover, it also supports energy policy dialogue processes and networking events in the partner municipalities.

Gender and Diversity

The project encourages women participation in the capacity building measures for energy managers. Moreover, for increasing contribution of women in Pakistan's energy sector, gender-relevant topics are addressed in the policy dialogue.

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