

INDO-SWISS



BUILDING ENERGY EFFICIENCY PROJECT



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The Indo-Swiss Building Energy Efficiency Project (BEEP) is a bilateral cooperation project between the Ministry of Power (MoP), Government of India and the Federal Department of Foreign Affairs (FDFA) of the Swiss Confederation. The Bureau of Energy Efficiency (BEE) is the implementing agency on behalf of the MoP while the Swiss Agency for Development and Cooperation (SDC) is the agency in charge on behalf of the FDFA.

Project Objective:

The overall objective of the project is to reduce energy consumption in new commercial buildings and to disseminate best practices for the construction of low energy residential and public buildings. The project contributes to strengthening and broadening the Bureau of Energy Efficiency's (BEE) building energy conservation programme for the 12th Five-Year Plan. The project is of 5 years duration (2012-16).

Component 1 - Integrated Design Charrettes

The key activities under this component are:

- 24 integrated design charrettes for large commercial building projects, during their early-design phase. These charrettes are 3 to 4-day interdisciplinary workshops which bring together the whole design team with senior Swiss experts to develop the energy concept and advisories for the building project. The key rationale is to tap the largest energy saving potentials at minimal cost.
The first charrettes were conducted with developers like Shapoorji Pallonji & Co. Ltd, Tata Realty and Infrastructure Ltd. and State building agencies in Karnataka and Rajasthan.
- Integrated Design Seminars to promote exchange of knowledge and know-how on the integrated design process with building professionals, local authorities, and policy makers.
- Development of practical tools to facilitate energy-efficient design during the integrated design charrettes and beyond them.
- Design competition for external movable shading systems.



Component 2 - Technical assistance in developing building material testing infrastructure

This component primarily focuses on:

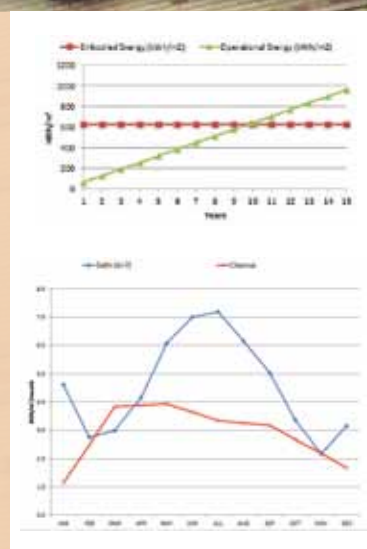
- Development of the physical infrastructure and human competencies for testing of building insulation materials in India.
- Making available independently tested information on properties of insulation materials to building design teams.
- Making available training material package on building insulation.



Component 3 - Design guidelines and tools for the design of energy-efficient residential and public buildings

This component includes the following activities:

- Development of design guidelines for energy-efficient residential buildings for three climatic zones - composite, warm & humid and cold climates.
- Development of templates for standard new government buildings, such as schools, municipal buildings in selected states.
- Checking the feasibility of the adaptation of the Swiss Minergie label for residential buildings in the Indian context and, if found feasible, development and adaptation of the label.



Component 4 - Production and dissemination of knowledge products

This component is aimed at increasing knowledge and know-how of climate-responsive, high-performance, energy-efficient solutions for new buildings through:

- BEEP website to support information and knowledge dissemination on energy efficiency in buildings.
- Knowledge products: manuals, guidelines, tools, database for use by Indian building professionals and policy makers.
- Targeted advanced training and capacity building programmes for Indian professionals.
- Knowledge events in the form of seminars and workshops.
- Development of Community of Practice (CoP) of sustainable building professionals.

PROJECT ORGANISATION

Government of Switzerland
(Federal Department of Foreign Affairs
[FDFA]/ Swiss Agency for Development
and Cooperation [SDC])

Government of India
(Ministry of Power [MoP]/Bureau of
Energy Efficiency [BEE])

JOINT APEX COMMITTEE

Co-Chaired by Ministry of Power (MoP) and
Climate Change & Development (CCD), Embassy of Switzerland

Includes representatives from other related ministries, associations, donors,
individual experts and Project Management and Technical Unit (PMTU)

Devise strategic
orientation to the
project

JOINT IMPLEMENTATION GROUP

Co-Chaired by Ministry of Power (MoP) and
Climate Change & Development (CCD), Embassy of Switzerland

Includes representatives of BEE, related ministries and PMTU

Supervise and guide
project activities

PROJECT MANAGEMENT AND TECHNICAL UNIT (PMTU)

Switzerland: Sorane SA, Lausanne
India: Greentech Knowledge Solutions
Pvt. Ltd, New Delhi

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Project Management and Technical Unit (PMTU)

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*Website to be operational from September 2013

Front leaf images: (left) Communications Building, EPFL, Lausanne, Switzerland;
(right) Development Alternatives World Headquarters, New Delhi, India
Inside leaf image: Development Alternatives World Headquarters, New Delhi, India