



### DEG

DEG, a member of the KfW Bankengruppe (KfW banking group), finances investments of private companies in developing and transition countries. As one of Europe's largest development finance institutions, it promotes private business structures to contribute to sustainable economic growth and improved living conditions.



### TUV INDIA Private Ltd

TUV India Private Limited was established in 1989 as part of the German RWTÜV group's Indian operations. Being one of the first Certification Bodies to start operations in India, TUV India has been closely associated with the quality revolution in India. Starting with some of the earliest ISO 9001 audits by any certification body in India, TUV India, along with its parent group and CII, also organized some of the first Lead Assessor programs for capacity building in India.



### ASSIST

ASSIST is a non-stock, non-profit international capacity building organization with its headquarters in the Philippines. It aims to achieve and witness meaningful change to and for our planet and the people living on it. Since 2003, ASSIST has implemented over 45 projects funded by multi-lateral donors such as European Union, USAID, UNEP, UNIDO, DEG, GTZ, etc.

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# SWEEP

*SWitch to sustainable development  
through Energy Efficiency Practices*

#### Disclaimer:

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## Project Brief

The economy of India, which is considered as the seventh largest economy of the world in terms of GDP growth rate is continuously expanding with an estimated growth of 8.3% in 2010. The economy has shown a growth trajectory of 7.7 % in GDP in the second quarter of 2011, as compared to the same period in the previous year and maintaining an average GDP growth rate of 7.45 %. India's economic growth is accompanied by increased GHG emission. India is 4th largest emitter of GHG in the world (CDIAC 2008 ranking) and emits nearly 5% of global CO2 emissions (IEA 2010 report).

The Indian manufacturing sector is one of the nation's largest sources of greenhouse gas (GHG) emissions and continues to grow due to rapid industrialization in the country. The following sectors – Cement, Iron & Steel, Aluminium, Fertilizer, Paper & Pulp and Power sector are the six most energy intensive industries in India. There is a significant potential for cost-effective energy efficiency improvements among the same general set of sectors. Much can be done to reduce the carbon intensity of the manufacturing sector with overall cost savings and reduction of environmental degradation.

A number of donor based initiatives have aimed at promoting energy efficiency investments in India, but so far with limited results. The main barriers are identified as lack of knowledge of systematic approach to GHG emission reduction/ energy management in industries and large buildings and lack of technical skills.

This project, co financed by DEG and implemented by TUV India Pvt Ltd and ASSIST proposes to address these major emission sectors which are the largest emitter of GHG emissions and work towards the low carbon economy capacity building & implementation of energy management systems and later on replicate the same in other sectors of manufacturing and influence service industries as well.

## Methodology

### Phase 1

- a. Promotional Campaigns
- b. CEO Forums
- c. Focused Group Discussion

### Phase 2

- a. Training Content Development
- b. Train the Trainer Sessions
- c. Company Selection
- d. Technical Assistance
- e. Assessments

### Phase 3

- a. Communication Tools (Web Portal/E-Magazine)
- b. Self Learning Tools (E-Learning/Energy Assessment Tool/Handbook)
- c. Best Practices Forum

## Project Activities/Deliverables

### Promotional Campaign Materials

Promotional campaign materials such as Quick Reference Cards, Posters, and Project Brochures will be developed and distributed throughout the project during various events/trainings to promote energy efficiency/carbon foot print concepts among various stakeholders.

### CEO Forums

CEO Forums will be arranged in 2 locations to consult and influence decision-makers of energy intensive industries on the importance of building capacity to reduce carbon foot print of the industry.

### Focused Group Discussion

Focused Group Discussion shall be arranged including industry experts, local industry associations, government agencies to generate interest to streamline existing ideas and develop a plan for more climate friendly future.

### Training Content Development

Training content for the Train the Trainer Sessions (5-days) benchmarking international standards and best practices on Energy Efficiency (ISO 50001) and Carbon Foot Print (ISO 14064) will be developed.

### Train the Trainer Sessions

Two Train the Trainer sessions of 5-days each will be organized with participation from a multi stakeholder group to build up the local capacity in the area of energy efficiency.

### Technical Assistance

Technical assistance is provided to a limited number of companies to align with ISO 50001/ISO 14064 including base line assessments and final assessments.

### Communication Tools

A web portal and e-magazine will be developed and circulated to all major stakeholders with periodic updates to ensure regular education and communication.

### Learning Tools

A self learning tool kit (e-learning), Energy Assessment tool and Handbook on ISO 50001 will be developed to help companies in implementation of energy efficiency measures. These tools will be distributed to interested companies throughout the project duration.

## Benefits

This is a Public –Private Partnership project which targets the energy intensive industries to help them reduce the carbon foot print of the industry through control of GHG emissions and local capacity building.

The beneficiaries of the project shall look forward to the following advantages/benefits:

- A platform for key decision makers from the industry and other stakeholders, and technical experts to interact and network with each other.
- Access to training materials and resources on the topics of Energy Efficiency and Carbon Foot Print
- Exposure to best practices and international standards like ISO 50001 & ISO 14064 etc.
- Access to communication tools like Web Portal and E-Magazine
- Self learn the concepts of Energy Efficiency/Carbon Foot Print through E-Learning Kits, Energy Assessment Tools and Handbooks.
- Participation in the trainings and events of the project to network and exchange best practices.

### Technical Assistance – Environment, Health & Safety Practices

SMEs (at least 5) will be given direct assistance to improve their environmental & social performance and to be assessed and certified for compliance with ISO 14001 and OHSAS 18001.

### Best Practices Exchange Forum

The results of the project will be shared in the Best Practices Exchange forum with participants from major stakeholders groups. Awards will be given to companies that participated in the assessments and to the local trainers. E-learning kits will be distributed during this forum