







# Promoting Market Transformation for Energy Efficiency

in Micro, Small & Medium Enterprises





Implementing Agency

TIGHAG WRA MINISTRY OF MICRO, SMALL & MEDIUM ENTERPRISE GOVERNMENT OF INDIA

**Executing Agency** 



**ENERGY EFFICIENCY SERVICES LIMITED** A JV of PSUs under the Ministry of Power

#### **Implementing Partner**







**Financing Guide and Partner** 

#### MSME Units/ Cluster Associations

**Private Sector Stakeholders** 

#### BACKGROUND

In order to overcome the existing barriers for implementation of energy efficiency in the Indian MSMEs, the project, "Promoting market transformation for energy efficiency in Micro, Small & Medium Enterprises," a joint initiative conceptualized by United Nations Industrial Development Organization (UNIDO) and office of the DC MSME, targets to create and sustain a revolving fund mechanism as a mode to ensure replication of energy efficiency measures in selected 10 industrial clusters. The key executing agency of the Project is Energy Efficiency Services Ltd (EESL). Small Industrial Development Bank of India and Bureau of Energy Efficiency are the other important stakeholders of the project.

### **PROJECT OBJECTIVES**

The project aims to:



To promote, implementation of energy efficiency in the MSME sector by addressing technical and financing barriers, including through creation of a revolving fund mechanism



Replication of standardised energy efficient technologies in the sector through aggregation of demand to reduce the transaction cost and thereby promote a cleaner and more competitive MSME industry in India



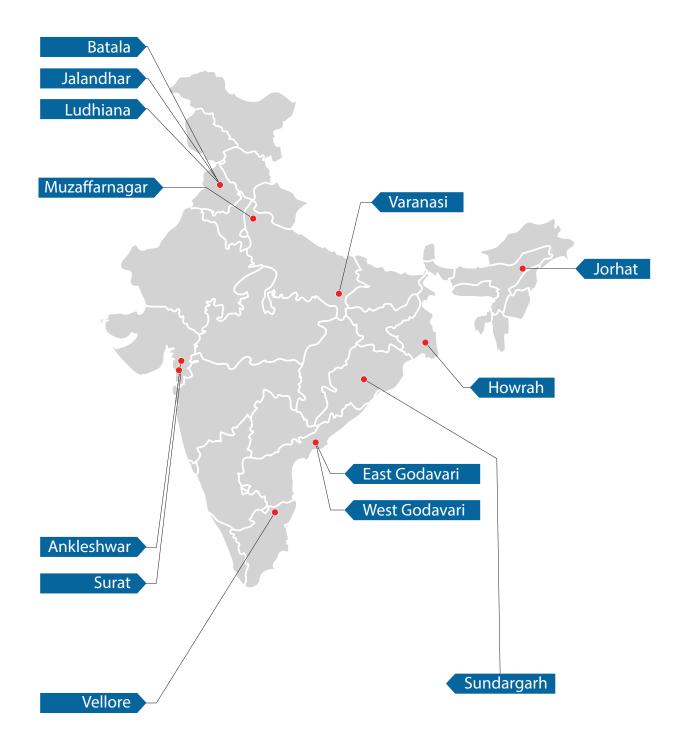
### **BENEFITS**

- ↓ Low Capital Investment
- 🕑 Monetary Savings Up-to 10-20%
- **Ö** Innovative Business Model
- S Cost Effective Procurement
- -t⊶ Capacity Building
- P Technical Assistance
- ✓ Performance Guarantee
- Annual Maintenance Contract

#### **PROJECT COMPONENTS**

- 1. Programme to identify energy intensive clusters and replicable technologies
- 2. Pilot implementation of the identified technologies
- 3. Aggregation of demand for demonstrated technologies in the clusters
- 4. Financial models to support replication of energy efficiency projects in MSME

## CLUSTERS IN FOCUS & IDENTIFIED TECHNOLOGIES

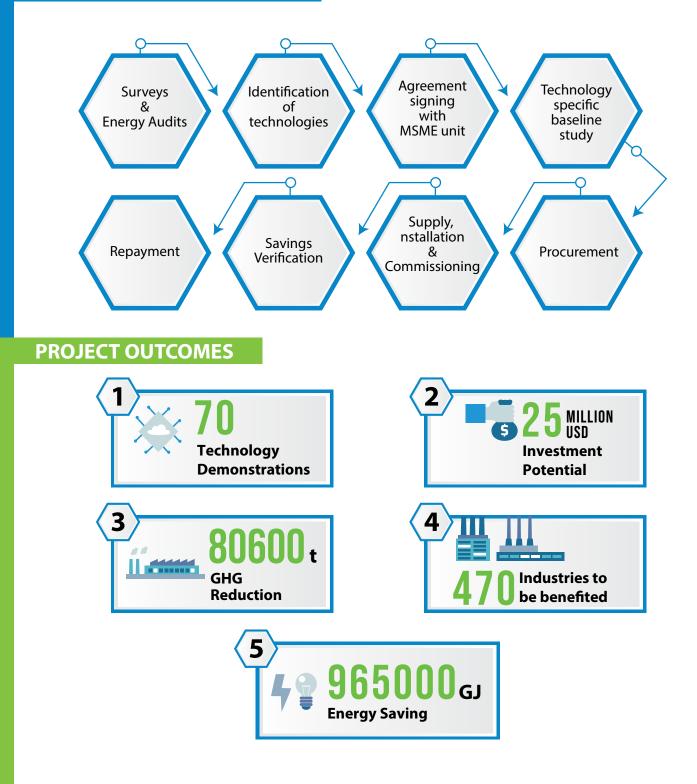


Batala Jalandhar Ludhiana	<ol> <li>Induction billet heaters</li> <li>Special purpose machines</li> </ol>
Muzaffarnagar	1. Energy Efficient Vacuum pumps
Ankleshwar	1. VFD enabled screw compressors with permanent magnet motor
Surat	2. 100% flash steam and condensate recovery system
	3. PLC based automation & control system for Jet Dyeing Machine
	4. Combustion automation system for Boilers
	5. Micro-Turbines for power generation
Vellore	1. LSU Dryer
	2. IBR boilers
Varanasi	1. Combustion Control System for boiler/ thermo-pack
Jorhat	1. Automation & control system for withering process
	2. FRP Blades in Withering Fan
	3. Energy Efficient Modulating Burners with temperature based control system in Natural Gas Fired Dryer
	4. Automation in dryer system
Howrah	1. High-efficiency metallic recuperator with steel reheating furnaces
	2. Automation and control system in steel reheating furnaces
	3. Energy Efficient divided blast cupola
Sundargarh	1. Multi shell VFD
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# FRAMEWORK OF THE REVOLVING FINANCING MECHANISM



#### **IMPLEMENTATION PROCESS**





#### For further information, please contact us:

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