



Global Green Growth Institute



Energy Efficiency Services Limited



Federation of Indian Chambers
of Commerce & Industry

Scaling-Up of Investment through **ESCO MECHANISM IN MSME CLUSTERS BY**

Deploying Standard Energy Efficient Technologies (SEET)



Federation of Indian Chambers of Commerce and Industry (FICCI) in association with Energy Efficiency Services Ltd. (EESL) is implementing a project funded by Global Green Growth Institute (GGGI) titled "Scaling Up of Investments through ESCO Mechanism in MSME Clusters by Deploying Standard Energy Efficient Technologies (SEET)". The project activities will be executed in 3 MSME clusters of Haryana (a) Rice Mill Cluster in Karnal (b) Textile Cluster in Panipat (c) Mixed Industry Cluster in Kundli, Sonipat

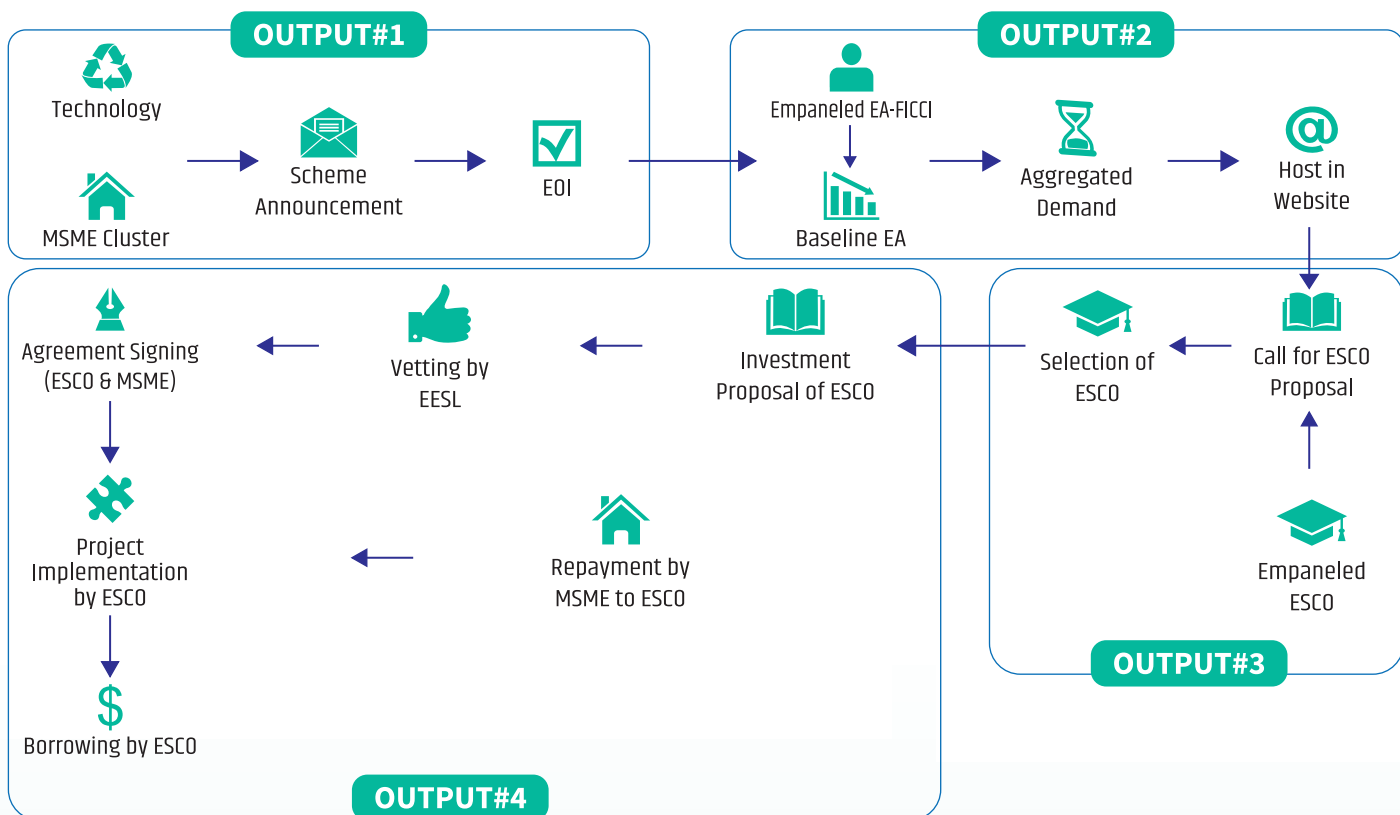
The overall project objective is to create an eco-system to accelerate adoption of Energy Efficient (EE) Technologies by MSMEs through innovative financing mechanism supported by ESCOs, Financial Institutes (FIs); deployment of Standard Energy Efficient Technologies (SEET) already identified under the EESL UNIDO MoMSME (GEF-5) Project in the targeted clusters; aggregation of demand of EE Technologies and developing suitable IT Tools for improving efficacy of the program implementation at large scale.

TARGET MSME CLUSTERS

- Program to be Implemented in three industrial clusters of Haryana:
 - Rice Mill Cluster - Karnal
 - Textile Cluster - Panipat
 - Mixed industry Cluster in Kundli, Sonipat

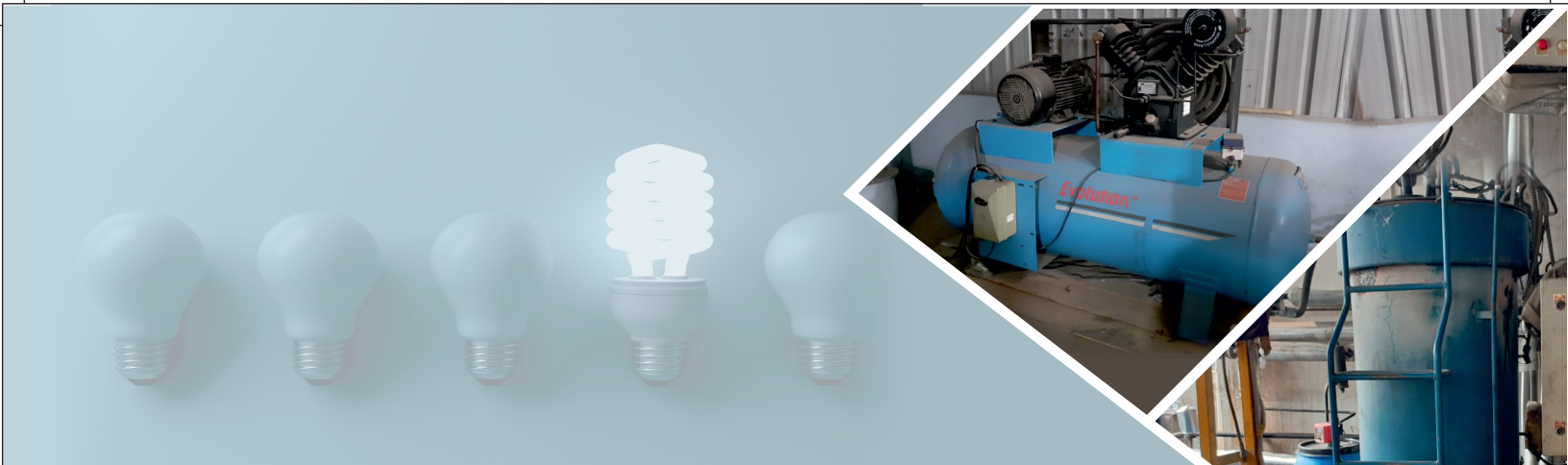


Program Approach

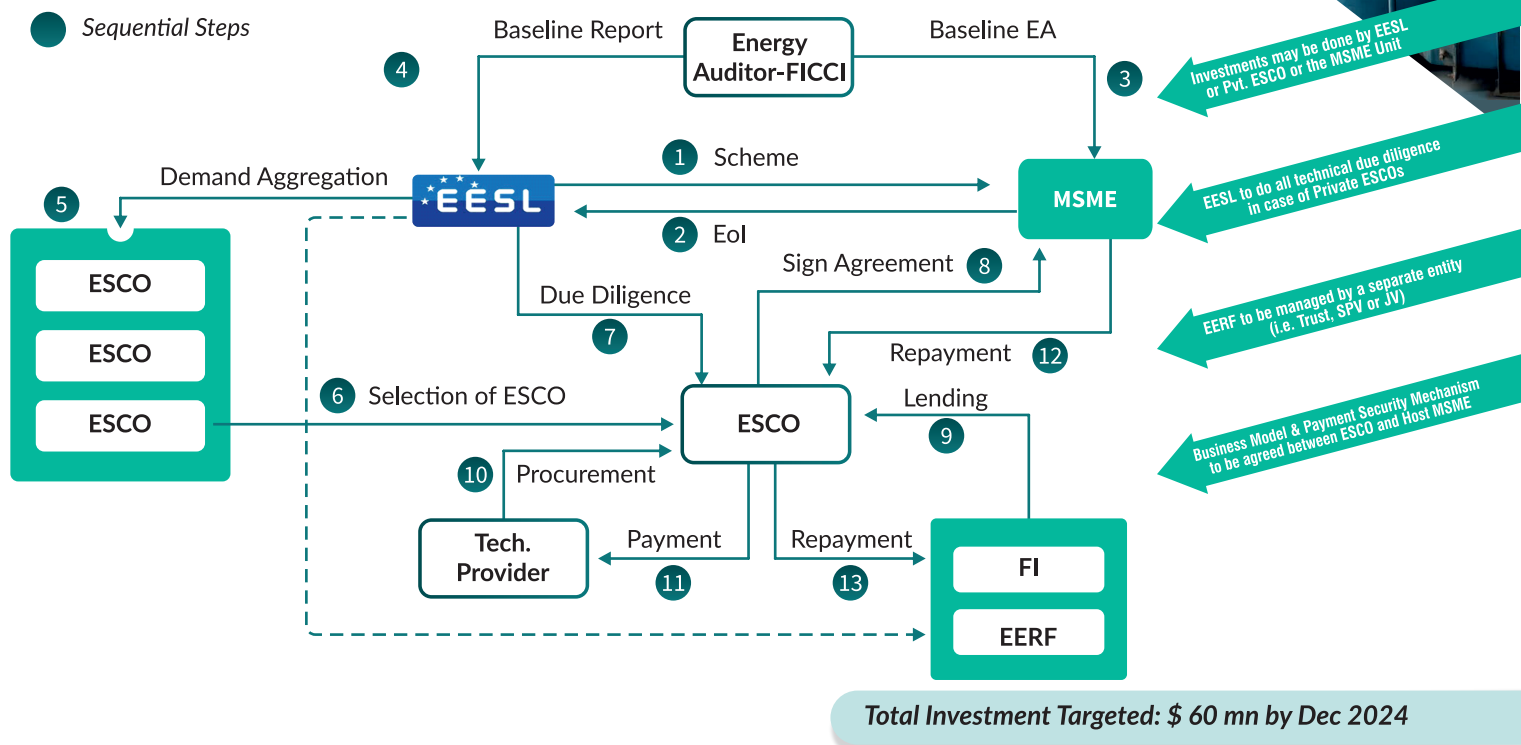


PROJECT STAKEHOLDERS





Program Activity Flow



Energy Efficient Technologies On Offer to Industry Clusters of Haryana for Adoption/Implementation

Sr. No.	Technologies Name	% Energy Saving	Pay-back period
1	Replacement of Reciprocating Compressor by Screw Compressor with VFD and Permanent Magnet Motor	20-25%	1.5-2
2	Installation of 100% Flash Steam and Condensate Recovery System	20-25%	1.5-2
3	Installation of PLC based Automation & Control System for Jet Dyeing Machine	15%-20%	1.5-2
4	Installation of Automation and Control System in Boiler	15%-20%	1.5-2
5	Low Grade Waste Heat Recovery	10-15%	2-2.5
6	1-75 kW Energy Efficient (IE-3) Motors	5-15%	1.5 – 2 Yrs
7	32-35 Watt BLDC Fan 1200 mm Sweep	>40 %	1-1.5 years

About GGGI

The Global Growth Institute (GGGI) is an international organization dedicated to supporting and promoting strong, inclusive and sustainable economic growth in developing countries and emerging economies.

GGGI's mission is to support the transition of its member and partner countries toward a model of green growth by developing and implementing strategies that simultaneously achieve poverty reduction, social inclusion, environmental sustainability and economic growth. By pursuing this mission, GGGI aims to achieve its vision of a resilient world of strong, inclusive and sustainable green growth.

About EESL

Founded in 2009, Energy Efficiency Services Limited (EESL) is a super Energy Service Company (S-ESCO), which enables consumers, industries and government to effectively manage their energy needs through energy efficient technologies. EESL, a JV of PSUs under the Ministry of Power, Government of India is implementing the world's largest energy efficiency portfolio across sectors like lighting, buildings, industry electric mobility, smart metering agriculture, etc. at an enormous scale. EESL's energy efficiency solutions have saved India over 47 billion Kwh energy annually while reducing 36.5 million tons of carbon emission.

About FICCI

Established in 1927, FICCI is the largest and oldest apex business organisation in India. A non-government, not-for-profit organisation, FICCI is the voice of India's business and industry. FICCI is deeply committed to every aspects of Sustainable Development, Global Climate Change, Energy Efficiency and strategies to suggest global solutions to critical energy & environmental issues. It serves its members from the Indian private and public corporate sectors and multinational companies, drawing its strength from diverse regional chambers of commerce and industry across states, reaching out to over 2,50,000 companies. The Resource Conservation Management (RCM) Division of FICCI works closely with both large industries and energy intensive Micro, Small & Medium Enterprises (MSMEs) to improve their Energy & Environmental Performance.

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