

भारतीय लघु उद्योग विकास बैंक Small Industries Development Bank of India

SIDBI's Initiatives for Energy Efficiency in MSMEs

About SIDBI

Constitution and Mandate

Development Financial institution set up in 1990 – under an act of Indian Parliament

Role: Promotion, financing, development of MSMEs

Organization

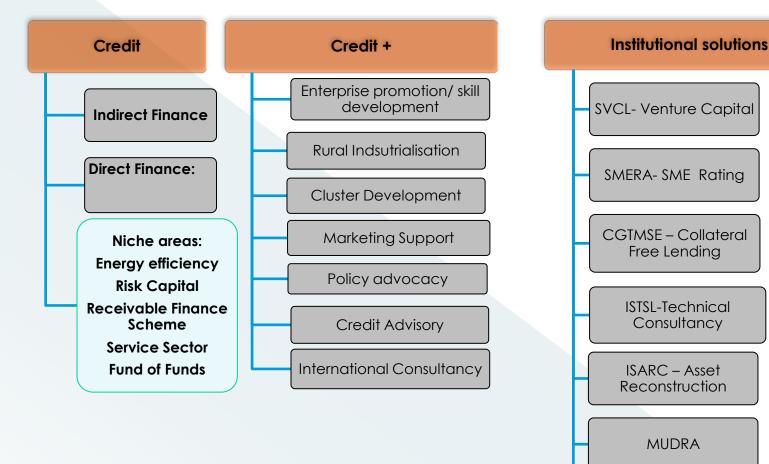
Corporate office at Mumbai. 80 branch offices and 15 regional offices

Staff of around 1100

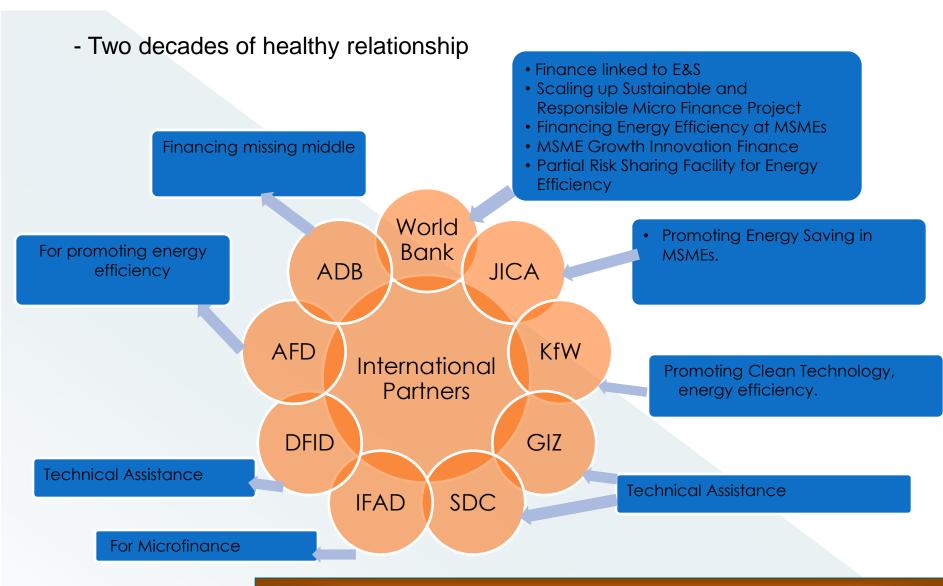
Continuous Highest Rating AAA by rating agencies like CRISIL and CARE

What We Do? SIDBI - Apex institution for MSME in India

TReDS



International Partners



International Collaboration for Indian MSMEs



Importance of MSME sector

- Micro, Small and Medium Enterprises (MSMEs) are vital for development of a country:
 - Enablers of Sustainable and balanced growth
 - employment creator
 - development of entrepreneurial skills and rural industrialization
 - Promotes innovation
- MSME Sector Contribution to Indian Economy
 - 45% of Industrial Production, 40% of shares in exports
 - More than 6000 products
 - Second Largest Sector after agriculture
 - Provides employment to over 100 million



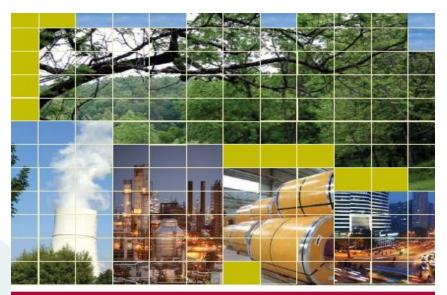
Emissions by MSME sector

• 59% of the total GHG emissions are from industrial & energy sector.

<u>www.moef.nic.in/downloads/publicinformation/Report_INCCA.pdf</u>

 About 48% of the total energy consumed in the industrial sector is from MSMEs

Source: Electricity consumption by Industry Sector, 2012-13, Energy Statistics-2014, Central Statistics Office, Govt. of India



INCCA Indian Network for Climate Change Assessment

India: Greenhouse Gas Emissions 2007





Energy Efficiency - Potential

- India is the third-largest energy consumer in the world, after the United States and China.
- Indian MSME sector consumes almost half of the total energy consumption by industrial sector.
- Many MSMEs are highly energy inefficient due to obsolete technology/processes.
- Potential for enhancing energy efficiency in MSME: 10-25%.



Energy Efficiency - Barriers

- Lack of awareness / information on Energy Efficiency (EE)/ EE best practices/EE technologies amongst MSMEs.
- Energy Efficiency is not a priority for MSMEs.
- Cost of Energy Audits Handholding support is also required
- Higher cost of energy efficient equipment / technologies
- Inadequate focus on Energy Efficiency financing by the banks
- ESCO market is still underdeveloped in India



SIDBI's Initiatives in EE

- Entered into strategic partnership with BEE, The World Bank, JICA, KfW, GIZ & AFD for promoting & financing clean & EE investments in MSME sector.
- Created a dedicated team of experts housed at "Energy Efficiency Centre" for focused approach.
- Introduced schemes for financing Energy Efficiency (EE) & Cleaner Production projects in MSME sector.
- Besides financing, also actively pursuing various developmental initiatives including WB-GEF Project, 4E scheme, PRSF project etc.
- Conducted awareness campaigns, focused group meetings, energy audits, pilot interventions in MSME clusters.



Two-pronged Approach

- Financial Assistance to MSMEs through focused Lines of Credit:
 - Concessional schemes for financing sustainable development projects in MSMFs
 - Objective of these lending schemes is to reduce energy consumption, enhance energy efficiency, reduce CO2 emissions and improve the profitability of the Indian MSMEs.

Developmental Support to MSMEs

- Cluster focused Awareness & Capacity Building Programmes for MSMEs, Industry Associations, Bankers and other stakeholders.
- Implementation of various developmental projects.



Activities covered under SIDBI's sustainable financing schemes

- ☐ Energy Efficiency equipments, green building
- ☐ Cleaner Production -
 - ✓ Waste Management –agro waste, industrial waste
 - ✓ Fuel Switching- diesel/petrol to CNG/LPG, coal to oil/gas based furnace
- ☐ ESCOs Energy Service Companies
- ☐ Renewable Energy –solar, hydro, bio mass, wind power





WB GEF Project – Financing EE at MSMEs

- Pilot project in 5 MSME clusters (extended in another 5 MSME clusters)
- Energy Audits completed in more than 2000 MSMEs
- Implementation of EE measures in more than 600 MSME units.
- Third party M&V through CII reported excellent results (10% 25% energy cost savings).
- Expected Results from the project are as under:

✓ EE Investment : INR 150 Crore

✓ Energy Cost Saving : INR 125 Crore

✓ Total Energy Saving : 22500 TOE / Yr

✓ CO2 Reduction : 1.50 Million tCO2

- ✓ First project wherein such large scale actual implementations of EE measures by MSMEs have taken place
- **✓ Project mentioned in India's INDC document**

End to End Energy Efficiency (4E) Programme

END TO END ENERGY EFFICIENCY

Benefits to MSME Units

Better Profitability

by reduction in Power

& Fuel Cost by 10-25%

A Unique Product for MSME Sector (4E) SOLUTIONS

Assurance of Quality of

services by ISTSL & SIDBI

- To help the MSME units to adopt RE practices providing them
 - Technical consultancy advisory services at reasonable with cost assurance of quality.



4E Programme

TECHNICAL SUPPORT

Detailed Energy Audit

Preparation of DPR

Implementation Support

Post implementation M&V audit

FINANCIAL SUPPORT

Loans from Rs. 10 Lakh to Rs. 150 Lakh

Max. loan upto 90% of total project cost or 1/5th of turnover

Interest rebate from 2.05% to 3.85%

Project Coverage

- EE Retrofit Projects
- RE Projects,
- -Cleaner Production
- -Upgradation / Modernization



Benefits of 4E to MSME units

Improved profitability through energy savings

Quality of technical services is assured

Nominal / subsidized cost of technical services

Availability of more time for concentrating on production, business development, etc.

Availability of finance at attractive terms

MSMEs are being charged a token fee of INR 30,000 plus taxes for technical services.

India SME Technology Services Limited (ISTSL)



website: www.techsmall.com

Joint Venture of











Partial Risk Sharing Facility for Energy Efficiency (PRSF) Project

Objective:

Empower and promote ESCO-implemented energy efficiency projects Encourage banks / FIs to finance ESCO projects through credit enhancement

Sectors covered:

- (a) Large industries (excluding thermal power plants),
- (b) MSMEs
- (c) Municipalities (including street lighting)
- (d) Buildings.

Risk Coverage:

- Extent of guarantee 75% of the loan amount.
- Minimum loan amount INR 10 Lakh and maximum loan amount of INR 15 Crore per project.

SIDBI is the Project Execution Agency (PEA).

SIDBI's EE assistance - Impacts

- Sanctioned Assistance of around Rs. 7000 crore to more than 8000 MSME units.
- Sanctioned more than Rs. 600 crore in RE Projects (both Wind & Solar power projects)
- More than 1043 Million units of electricity saved.
- Thermal energy savings of 650,000 million kCal
- Resulted in reduction of 909 kilo tons (kT) of CO₂ annually.
- Financed Green Buildings/Energy Efficient buildings aggregating to an amount of more than Rs. 100 crore .
- Reached more than 100 industrial clusters & 2500 MSME units and awareness on EE has been created to 4000 participants from the MSMEs.





Awards & Recognitions

- <u>ADFIAP Award 2012</u> under the category of Environmental Development for:
 - CNG Taxi Financing Scheme, CNG Auto Rickshaw Financing Scheme and Energy Efficiency Lines of Credit.
- ADFIAP Award 2013 Under the Environmental Category for
 - World Bank GEF project: Financing Energy Efficiency at MSMEs Project
 - pCDM Project at Jodhpur Stainless Steel Re-rolling Mills Cluster
- National Energy Conservation Award First prize under the category of Financial Institutions during 2015 and Certificate of Merit during 2016.
- SIDBI, the only Indian Institutional member of International Development Finance Club (IDFC) promoted by KfW . Presently, there are 23 members of IDFC across the world.



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Thank You!

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