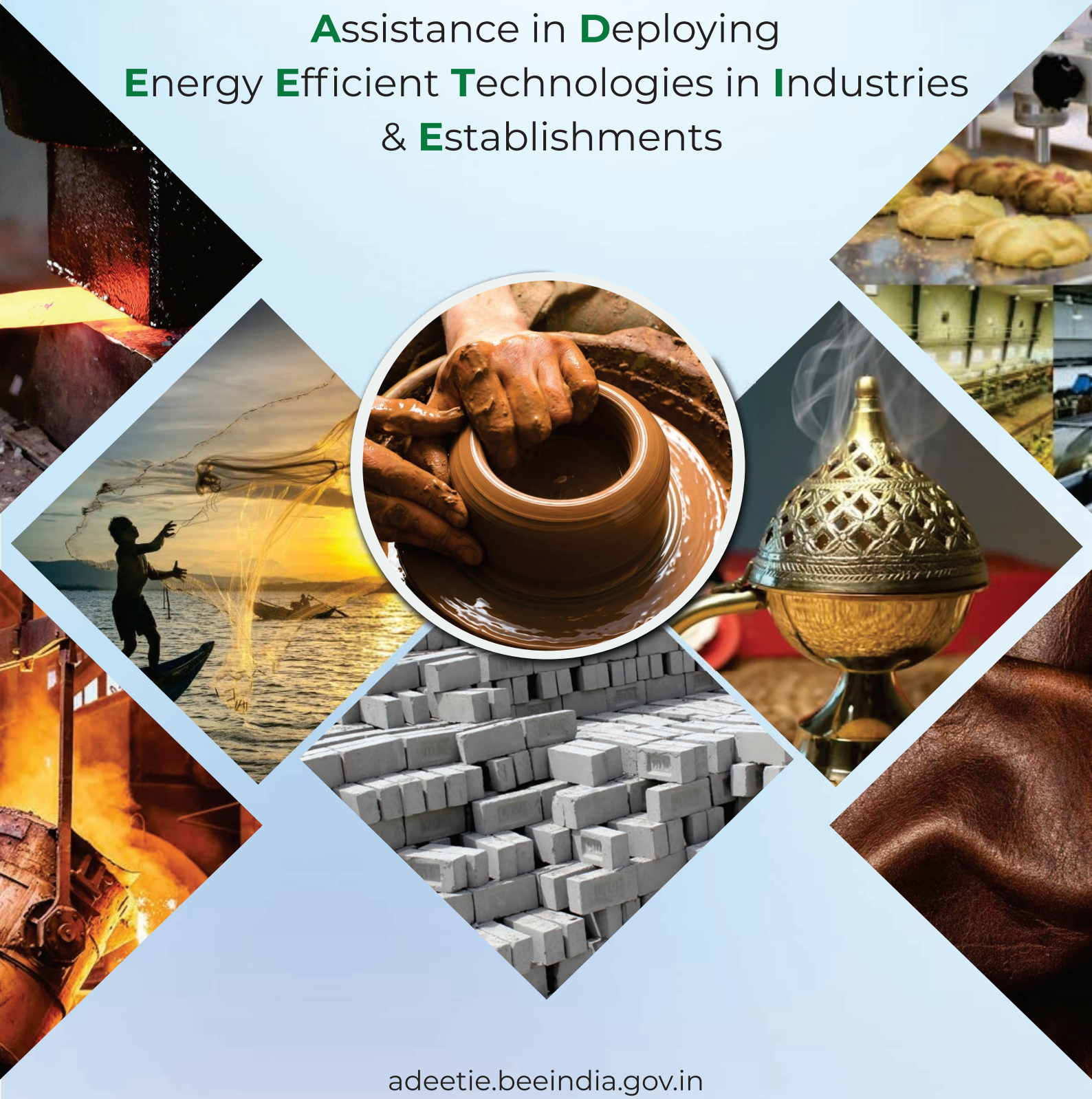
विद्युत मंत्रालय
MINISTRY OF POWER
सत्यमेव जयते

BUREAU OF ENERGY EFFICIENCY

ADEETIE

Assistance in Deploying Energy Efficient Technologies in Industries & Establishments



adeetie.beeindia.gov.in

ASSISTANCE IN DEPLOYING ENERGY EFFICIENT TECHNOLOGIES IN INDUSTRIES & ESTABLISHMENTS (ADEETIE)

The Assistance in Deploying Energy Efficient Technologies in Industries & Establishments (ADEETIE) is a flagship initiative of the Ministry of Power, implemented by the Bureau of Energy Efficiency (BEE), designed to accelerate the adoption of energy-efficient technologies across India's MSME sector. The scheme provides end-to-end support—ranging from technical guidance to financial incentives such as interest subvention—to help enterprises reduce energy consumption, cut operational costs, and boost overall competitiveness. The Scheme is operational across 60 industrial clusters in 14 key energy-intensive sectors, adopting a phased and structured approach encompassing energy audits, project planning, implementation, and monitoring. The scheme is a key step towards fostering sustainable industrial growth and supporting India's transition to a cleaner energy future.

Objective

- Facilitate MSMEs in adopting energy-efficient technologies to improve productivity and reduce energy costs.
- Supporting MSMEs in conducting Investment Grade Energy Audits (IGEA) and preparing Detailed Project Reports (DPRs).
- Enable MSMEs to access concessional financing through interest subvention on loans for technology upgrades.
- Assist MSMEs throughout the project lifecycle—from audit to implementation and monitoring—to ensure sustainable outcomes.

Scheme components

Interest Subvention

The scheme provides a 5% (Micro and Small) and 3% (Medium) interest subvention on loans for technology adoption, covering debt funding up to 75% of the project cost related to energy efficiency.

Streamlined Project Implementation

Widespread promotion and awareness, support for energy audits, DPR preparation, and end-to-end assistance up to monitoring and verification of the implementation.

Implementation Period

Three years, spanning from FY 2025–26 to FY 2027–28.

Eligibility criteria for the scheme

Micro, Small, and Medium Enterprises (MSMEs) that avail loans from Banks and Financial Institutions are eligible for an interest subvention, which provides financial relief by reducing the interest burden on their loans. This initiative is aimed at encouraging credit flow to the MSME sector, improving their access to affordable finance, and supporting business growth and sustainability.

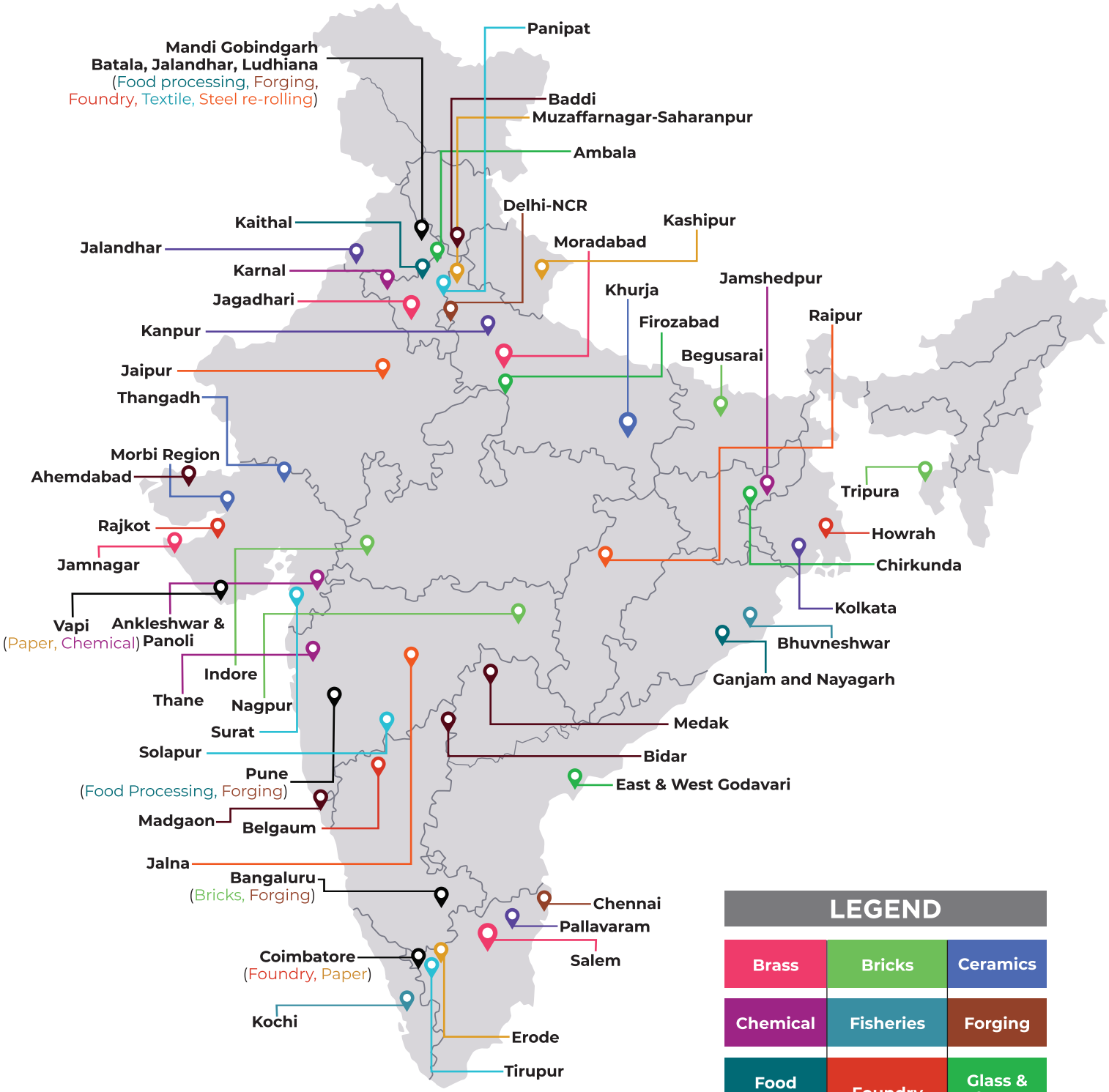
Eligibility

Micro Small and Medium Enterprises (MSMEs) registered under Udyam portal of Ministry of Micro Small and Medium Enterprises (MoMSME), operational in identified 60 clusters in energy-intensive sectors of Brass, Bricks, Ceramics, Chemicals, Fisheries, Food Processing, Forging, Foundry, Glass & Refractory, Leather, Paper, Pharmaceutical, Steel Re-Rolling, and Textiles will be eligible for the scheme.

Loan amounts ranging between Rs 10 lakh to Rs 15 Cr will be eligible.

Projects with a minimum of 10% energy saving potential are eligible to receive annual interest subvention.

CLUSTERS ELIGIBLE UNDER ADEETIE SCHEME



LEGEND

Brass	Bricks	Ceramics
Chemical	Fisheries	Forging
Food Processing	Foundry	Glass & Refractory
Leather	Paper	Pharma
Steel re-rolling	Textile	

Note: This map is for illustrative purposes only. Cluster positions may not represent exact geographic coordinates.

LIST OF IDENTIFIED SECTORS AND CLUSTERS

Bricks
Bengaluru, Begusarai
Indore, Nagpur
Tripura

Steel Re-Rolling
Mandi Gobindgarh
& Ludhiana, Jaipur
Jalna, Raipur

Textile
Ludhiana, Surat,
Tirupur, Solapur
Panipat

Pharma
Baddi, Medak
Madgaon,
Ahmedabad, Bidar

Fisheries
Kochi
Bhuvneshwar
West Godavari

Chemicals
Ankleshwar & Panoli
Jamshedpur, Karnal
Thane, Vapi

Leather
Kanpur, Kolkata
Pallavaram &
Vaniyambadi
Jalandhar

Food Processing
Ganjam & Nayagarh
Kaithal, Ludhiana
Pune

Forging
Bangaluru, Pune
Delhi-NCR, Chennai
Ludhiana

Foundry
Batala, Jalandhar, Ludhiana
Howrah, Rajkot, Belgaum
Coimbatore

Paper
Muzaffarnagar-Saharanpur
Kashipur, Vapi
Coimbatore & Erode

Brass
Jagadhari, Jamnagar
Moradabad
Salem

Glass & Refractory
Ambala, Chirkunda
E & W Godavari
Firozabad

Ceramics
Morbi Region
Thangadh, Khurja

List of Energy Efficient Technologies under the ADEETIE Scheme

No.	Name Of Technology	Energy Saving Potential (%)	Sector
1	Rotoberatory Furnace	20-25%	Brass
2	Electrical Annealing Bogie Furnaces	25-30%	Brass & Aluminium
3	Gasifier for Melting and Reheating Process	20-25%	Brass & Aluminium
4	Vertical shaft brick kilns	15-20%	Bricks
5	Zig-Zag Firing	20-25%	Bricks
6	BEE 5 Star Rated AC	20-45%	Building
7	Gas Engine based co-generation technology	30-40%	Ceramics
8	Energy Efficient Tray Dryer	15-20%	Chemical
9	Gas fired hot air generator system	20-25%	Chemical
10	Membrane Filter Press	30-40%	Chemical
11	Vertical Agitator System for Reaction Vessel	20-25%	Chemical
12	Adiabatic Pre-reformer	4-10%	Fertilizer
13	Heat Pump	30-40%	Fishery
14	Thyristor Control for Electric Oven	7-15%	Fishery
15	Radio frequency heating	30-50%	Food Processing
16	Forging Furnace	15-20%	Forging
17	Hydraulic Hammer	30-40%	Forging
18	Induction Billet Heater	20-25%	Forging
19	Divided blast cupola	20-25%	Foundry

20	Natural Gas fired Boiler	20-30%	Foundry
21	Veneering for Industrial furnaces	20-25%	Foundry
22	Lost foam casting technology	50-60%	Foundry
23	Energy efficient gas fired pot furnace	30-35%	Glass
24	Energy Efficient Tank furnace	15-20%	Glass
25	Low Thermal Mass cars in Tunnel Kiln	10-13%	Glass & Ceramic
26	Tube ice plant	10-15%	Ice Making
27	Waterless Chrome Tanning	30-40%	Leather
28	CNC Machine (Special Purpose Machine)	30-35%	Machine Tool
29	CNC Bending Machine	30-35%	Machine Tool
30	CNC Gear Hobbing Machine	20-25%	Machine Tool
31	CNC Grinding Machine	20-25%	Machine Tool
32	CNC Horizontal M/c Centre	25-30%	Machine Tool
33	CNC Lathe Machine	25-30%	Machine Tool
34	CNC Milling M/C	25-30%	Machine Tool
35	CNC Turn Mill Centre	20-25%	Machine Tool
36	CNC Turret Punch Machine	35-40%	Machine Tool
37	CNC Wire Cut Machine	30-35%	Machine Tool
38	Screw Washer	10-15%	Paper
39	Nutsche Filtration and Drying Process	10-20%	Pharmaceutical
40	Bleached Chemi Thermo Mechanical Pulp (BCTMP)	15-20%	Pulp & Paper
41	Cascaded Condensate Recovery System	5-7%	Pulp & Paper
42	Fabricated Water Ring Vacuum Pumps	30-40%	Pulp & Paper
43	Hi-Consistency Pulper	10-15%	Pulp & Paper
44	High Efficiency Refiner	7-20%	Pulp & Paper
45	Low Consistency Refining (LCR)	20-30%	Pulp & Paper

46	Oxyfuel Burner	30-40%	Pulp & Paper
47	Pocket Ventilation System	5-15%	Pulp & Paper
48	Shoe Press	20-30%	Pulp & Paper
49	Boiler Conversion: Atmospheric Fluidised bed to Spouted bed	25-30%	Pulp & Paper
50	Modern Brownstock Washers (BSWs)	10-20%	Pulp & Paper
51	Black Liquor Gasification	15-20%	Pulp & Paper
52	Drum pulpers	20-30%	Pulp & Paper
53	Vacuum blower	20-25%	Pulp & Paper
54	Direct Rolling	30-40%	Steel Re-rolling
55	Exhaust humidity measurement & control system	5-15%	Textile
56	Rapier or Auto Loom	15-20%	Textile
57	Carbon Fiber Fan	15-20%	Textile
58	Pulser dyeing technique	20-30%	Textile
59	Waste heat recovery in centrifugal compressor	10-20%	Textile
60	Gas fired stenters	30-40%	Textile
61	Light weight carbon reinforced spinning pot	18-20%	Textile
62	High-speed carding machine	30-40%	Textile
63	PLC based dyeing machine	20-25%	Textile
64	High-speed Ring spinning frame	10-20%	Textile
65	Light weight bobbins	7-20%	Textile
66	Synthetic sandwich tapes	5-15%	Textile
67	SITRA Excel fans	15-20%	Textile
68	Auto loom	25-30%	Textile
69	Ultrasonic technology	40-50%	Textile

Note: The scheme is open beyond the above indicative list.

ADEETIE IMPLEMENTATION PROCESS

1 Registration by MSME

MSME identifies high energy consumption areas and registers on the scheme portal to adopt energy-efficient technologies.

2 Investment Grade Energy Audit (IGEA)

An empanelled energy auditor conducts a detailed energy audit to identify energy savings opportunities.

3 DPR Preparation and Submission

Based on the audit, the auditor prepares and submits IGEA based Detailed Project Report (DPR) outlining technologies, costs, savings, implementation plans, Retrurn on Investment (ROI) and Internal Rate of Return (IRR).

4 Technical Committee Approval

BEE's Technical Committee reviews the IGEA based DPR for feasibility and scheme compliance. Approved projects become eligible for accessing finance and interest subvention under scheme.

5 Loan Application and Sanction

MSME applies for a loan from suitable financial institutions.
IGEA fees are credited to the MSME.

6 Technology Procurement and Implementation

MSME procures and installs approved energy-efficient technologies and systems.

7 Monitoring and Verification (M&V)

Empanelled auditors verify actual energy savings and submit reports to BEE for compliance.

8 Subvention Claim and Disbursement

Lending Financial Institutions submit subvention claims to BEE for disbursement to beneficiaries through nodal bank (Central Nodal Agency) on quarterly basis.

9 Impact Assessment and Monitoring

BEE maintains records and periodically assesses the scheme's impact on energy efficiency.

FAQs for INDUSTRIES

1 What is the ADEETIE Scheme?

The ADEETIE Scheme is a flagship initiative of the Ministry of Power, implemented by the Bureau of Energy Efficiency (BEE), to support MSMEs in adopting energy-efficient technologies through interest subvention and complete technical handholding.

2 What is the objective of the scheme?

The primary objective is to facilitate MSMEs in upgrading their processes by adopting energy-efficient technologies through:

- Financial support (interest subvention on loans)
- Technical support (Investment Grade Energy Audits, DPR preparation, and M&V)

3 What kind of financial support is provided?

Interest subvention is provided on loans for technology adoption:

- 5% for Micro and Small Enterprises
- 3% for Medium Enterprises
- Lending rates are capped at a minimum of 2%

4 What are the eligible sectors and clusters under the scheme?

ADEETIE covers 14 energy-intensive sectors across 60 MSME clusters in the initial phase, including:

- Brass, Bricks, Ceramics, Chemicals, Fisheries, Food Processing, Forging, Foundry, Glass & Refractory, Leather, Paper, Pharma, Steel Re-rolling, and Textile

5 Who is eligible to apply?

MSME units engaged in manufacturing and located within the identified clusters of the 14 target sectors. They must demonstrate at least 10% energy savings through the implementation of selected technologies.

6 What are the scheme's main components?

- Interest Subvention on loans for energy-efficient technologies
- End-to-End Implementation Support (audits, DPRs, technical handholding)
- Dedicated Project Management Unit (PMU) and a Nodal Bank

7 How will the implementation be carried out?

The scheme will be implemented in two phases:

- Phase 1: 60 clusters across India
- Phase 2: Additional 100 clusters (based on learnings from Phase 1)

Each project is tracked digitally using a unique project ID within the MIS system managed by the PMU.

8 What is the anticipated impact of the scheme?

- Mobilization of ₹9,000 crore in energy efficiency investments
- ₹6,750 crore in MSME lending
- Significant energy savings and emission reductions
- Enhanced creditworthiness and competitiveness of MSMEs

9 What is the scheme's implementation period?

The ADEETIE Scheme will be implemented over a three-year period, from FY 2025–26 to FY 2027–28.

10 What is the scheme's budget?

- The total outlay is ₹1,000 crore, allocated as follows:
- ₹875 crore – Interest subvention
- ₹50 crore – Investment Grade Energy Audits
- ₹75 crore – Handholding and implementation support

FAQs
for Auditing Agencies

1 What is the objective of the empanelment under ADEETIE and BEE MSME programs?

To create a technically capable network of certified and experienced Energy Auditors and firms that can support MSMEs in energy efficiency improvement by conducting detailed Investment Grade Energy Audits (IGEA), preparing Detailed Project Reports (DPRs), and Monitoring and Verification of implementations and providing technical assistance.

2 What is the empanelment duration?

Auditing firms and auditors are empanelled for a tenure of up to 3 years, subject to performance reviews .

3 Who is eligible to apply for empanelment under ADEETIE?

Firms:

- At least 5 years operational experience
- At least one BEE Certified Energy Auditor with 5+ years' experience
- Must have energy auditing tools

Individuals:

- BEE Certified Energy Auditor
- 5+ years' experience in industrial/MSME energy audits
- Skilled in using energy audit tools

4 What services do auditors provide?

- Conduct Investment Grade Energy Audits (IGEA)
- Identify energy-saving opportunities
- Prepare DPRs for EE technology implementation
- Support post-implementation Monitoring & Verification (M&V)

5 A firm or an individual auditor be empanelled for multiple MSME clusters?

Yes, a firm or individual can be empanelled for multiple clusters.

6 Where and how to apply for empanelment?

Submit the application form via **adeetie.beeindia.gov.in** and email to **facilitation-centre@beeindia.gov.in**

BUREAU OF ENERGY EFFICIENCY (BEE)

A statutory body under Ministry of Power
Government of India

4th Floor, Sewa Bhawan, R.K. Puram, New Delhi-110066 (INDIA)
Ph.: 011-26766700 | www.beeindia.gov.in