



# Energy Efficiency Programs for MSMEs

Bureau of Energy Efficiency (BEE)



# Energy Efficiency of MSMEs



## Objective –

To accelerate the adoption of EE technologies and practices through knowledge sharing, capacity building and development of innovative financing mechanisms.

## Energy Efficiency Programmes in SME Sector –

BEE – SME Programme

GEF – UNIDO – BEE Programme

GEF – World Bank – BEE Programme



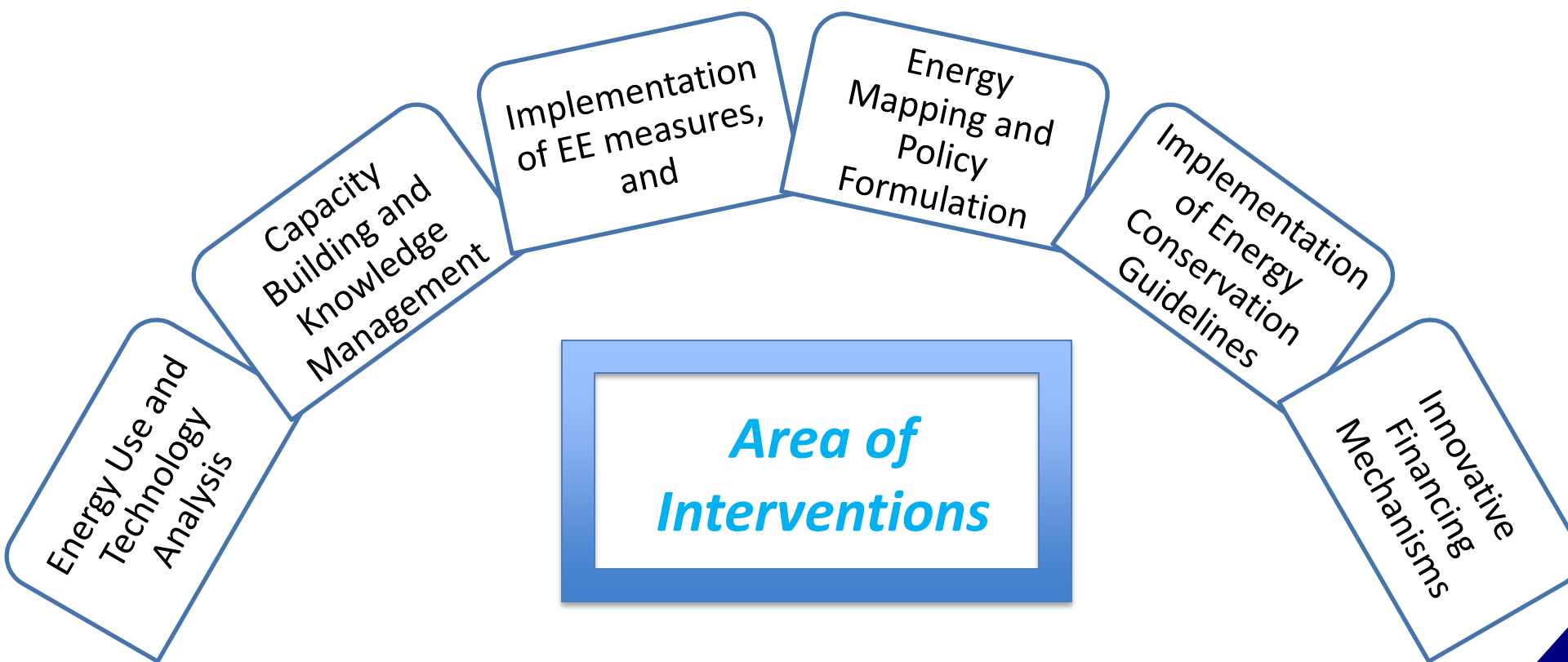
# Barriers towards adoption of EE in MSMEs



- **Lack of capacities among MSME unit owners and financial institutions (FIs)**
  - MSME unit owners lack technical expertise on energy efficient technologies
  - Financial Institutions and private investors perceive energy efficiency investments as “**high risk**” investments
- **Less priority of MSME unit owners towards energy efficiency**
  - Less awareness among the MSME unit owners on energy efficiency measures and technologies
  - Lack of knowledge on potential benefits of energy efficiency among unit owners
  - Lack of local EE experts to guide the unit owners in undertaking projects
- **Lack of institutional capacity towards fulfilment of documentation requirements for the program.**



# Bureau's Focused Areas -

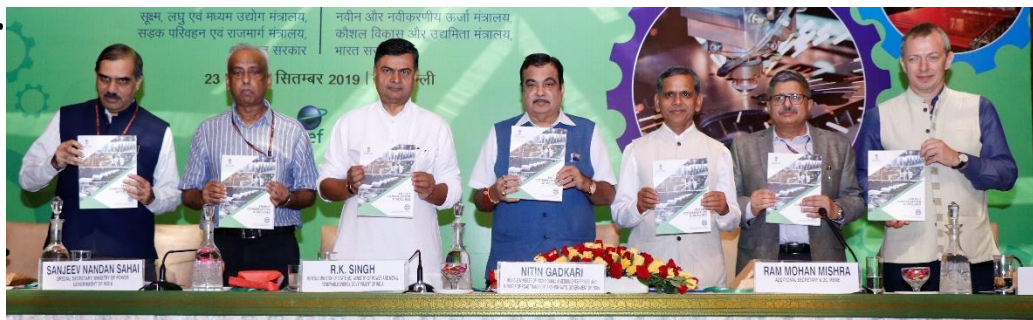
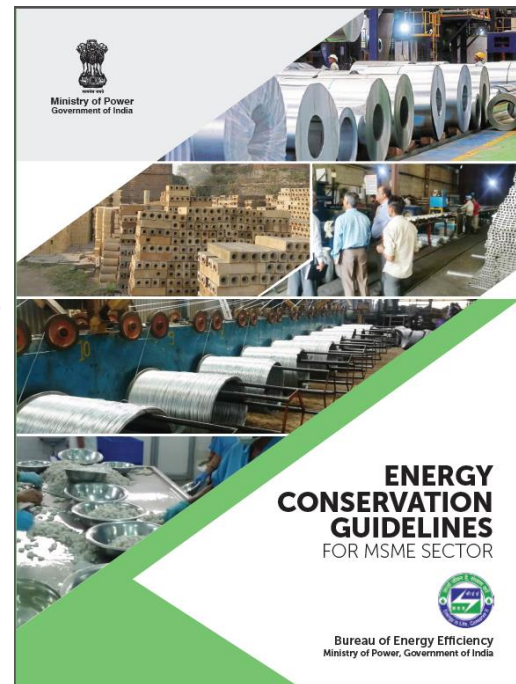




# Energy Conservation Guidelines for MSMEs



- Energy Conservation Guidelines for MSMEs document was released during National Conclave on Enhancing Energy Efficiency in MSMEs in September 2019.
- The Guidelines comprises of energy guzzlers from 25 energy intensive SME sectors.
- The EC Guidelines shall guide individual industry to prepare its own “Energy Management Manual” for efficient operation of various energy consuming facilities.







# Energy Conservation Guidelines for MSMEs



- National Workshop for widespread adoption of Energy Conservation Guidelines was organised in New Delhi.
- Discussions on various energy-efficient initiatives, policies, introduction of new technologies and how these technologies and innovation could help the MSME sector to be more energy-efficient were carried out in this workshop.



# MoU with O/o DC, MSME for strengthening Energy Security of MSMEs



- An MoU was inked with Office of Development Commissioner, MSME to strengthen the energy security of MSMEs in India by uptake of energy efficiency in this segment.
- The identified actionable items are
  - Energy Mapping of MSMEs
  - Energy Clinics
  - Implementation of EETs
  - Adoption of Industry 4.0
- Targeted SME clusters – 200 nos.

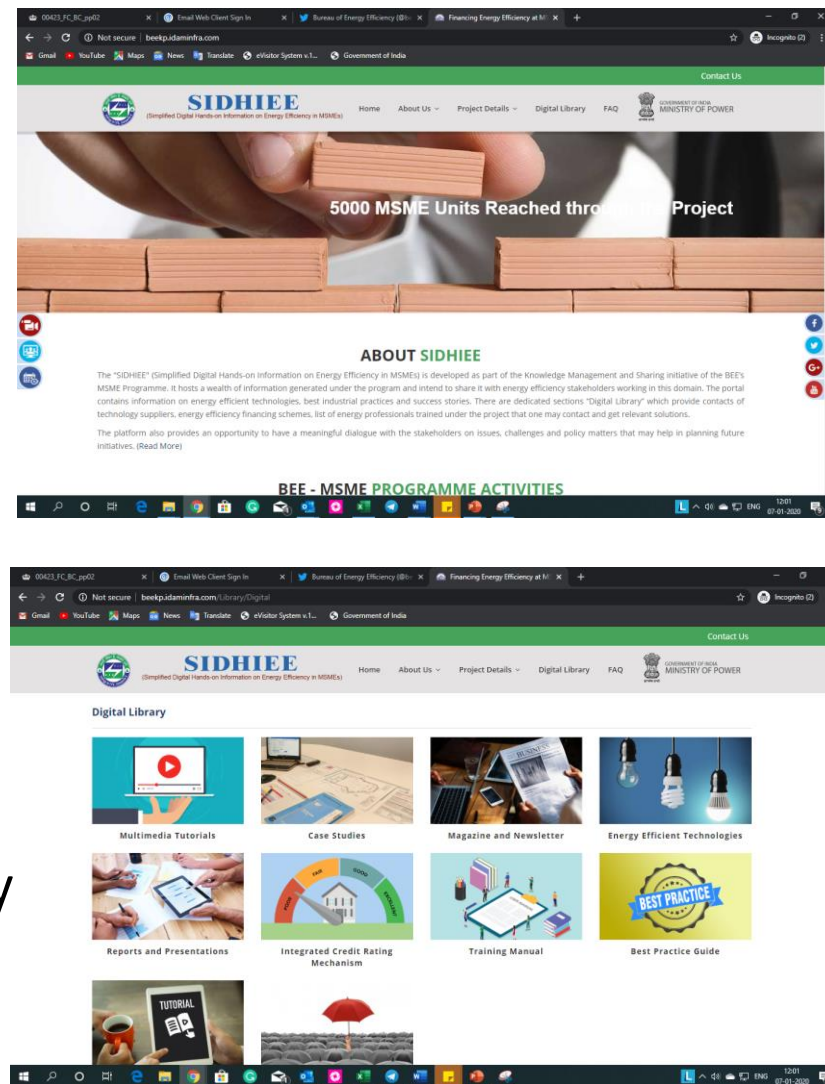




# Launch of Digital Library and SIDHIEE Portal



- A Knowledge Portal namely Simplified Digital Hands-on Information on Energy Efficiency in MSMEs (SIDHIEE) has been developed by Bureau of Energy Efficiency which hosts variety of knowledge resources like case studies, best operating practices, details of latest energy efficient technologies etc.
- The portal also has the digital-library which includes the recently developed fifty (50) multimedia tutorials on energy efficient technologies.







# Energy and Resource Mapping of MSMEs



- Energy audit and Cluster level studies
- Comparison of performance with standard benchmarks (Nationally and Internationally)
- Stakeholder consultation and Policy formulation
- National Sector Report
- Energy Mapping of the Sector

## SME Sectors –

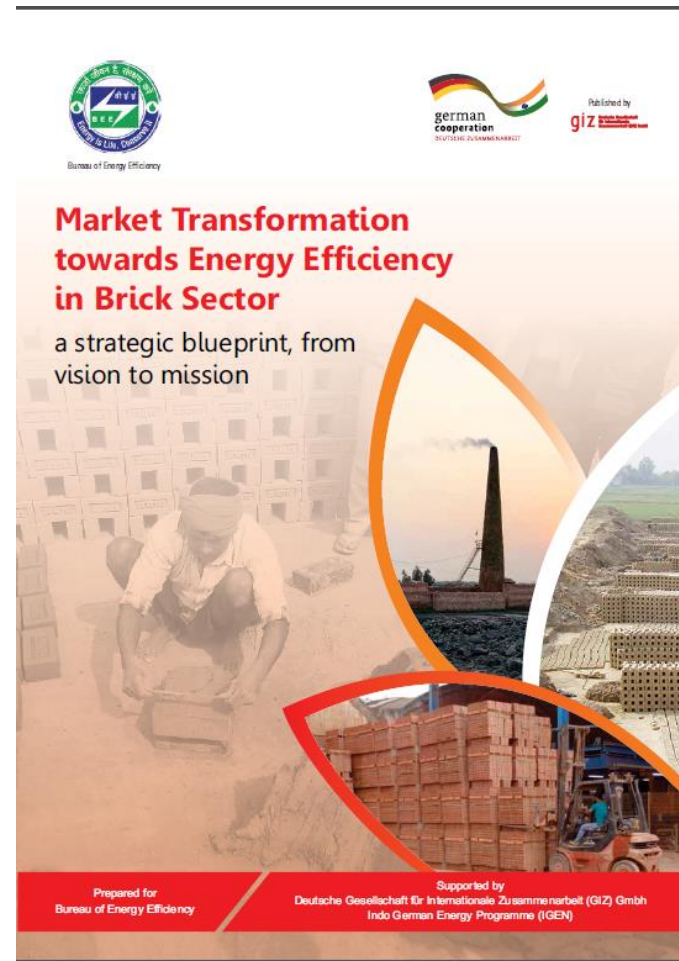
- Brass
- Bricks
- Chemical
- Dairy
- Glass and Refractory
- Pharma
- Foundry
- Forging
- Paper
- Steel Re-Rolling Mills



# Market Transformation towards EE in Bricks Sector



- India is the 2nd largest brick producer in the world. Brick Sector is one of the largest sources of GHG emissions in India & contributes 0.7% of India's GDP. The industry is highly unorganized & fragmented. Moreover, the sector accounts for around 15% Carbon Emissions in India.
- **Push and Pull Approach –**
  1. Creation of Demand - Voluntary Energy Efficient Enterprise (E3) mark for manufacturers
  2. Creation of Supply - Creating E3 mark demand (sourcing bricks produced in E3 mark enterprises)





# Improving energy efficiency in SMEs



## Thank You!