

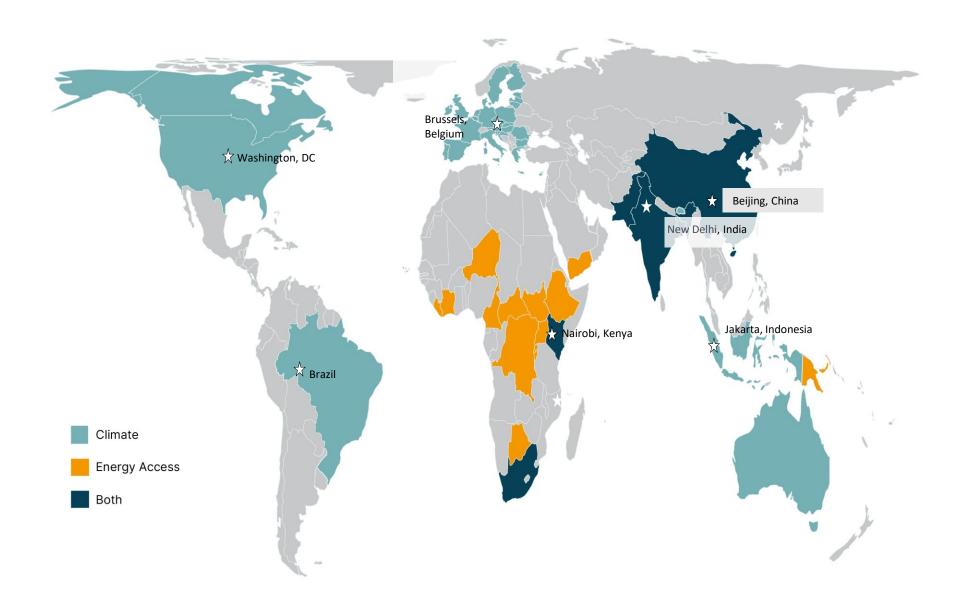




CLASP works to improve the energy and environmental performance of the appliances and equipment we use every day, helping accelerate our transition to a more sustainable world.

Where we work





Bureau of Energy Efficiency (BEE) – CLASP Collaboration: Technical Support Overview



CLASP India has been supporting BEE for over 20 years across all aspects of the Standards & Labeling (S&L) program, formalized through a (MoU).

Supporting Ministry of Power and BEE's Vision: Advancing Coverage of 50 Appliances by 2030

Focused on Top 10 Appliances









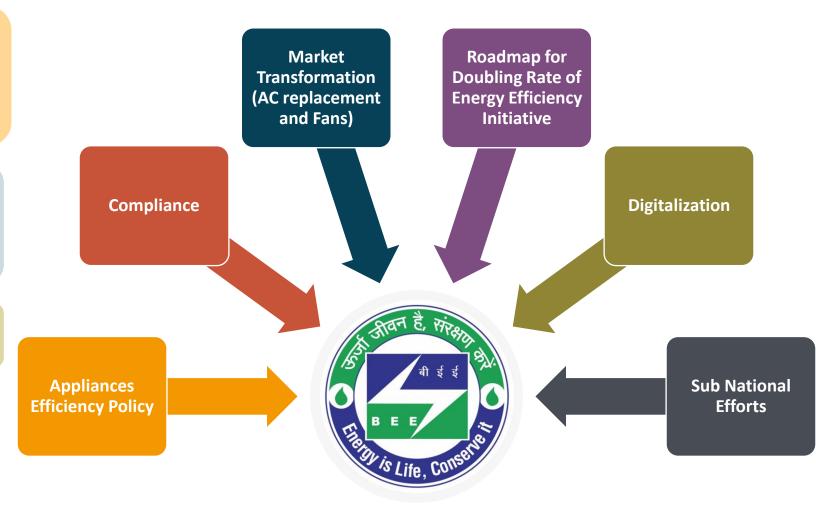












India: Today, and Tomorrow (Climate)



Rapid Economic & Energy Growth



Fastest growing economy and third largest energy consumer.

Growth



Energy Consumption

Per capita energy consumption is a third of the world average.



Manufacturing Ambition

Ambition to boost local manufacturing and appliance EE potential.

Impact of Appliance EE (2023-24)



Monetary Savings

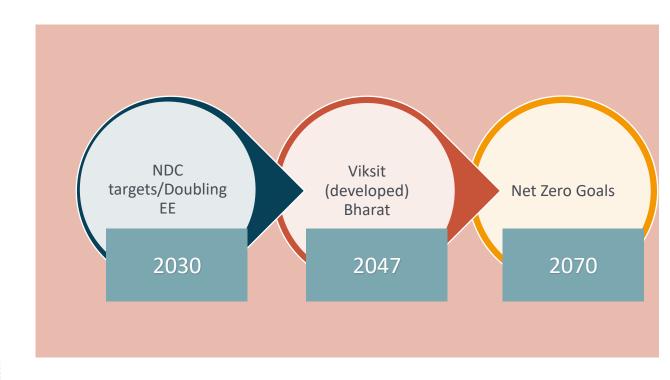
USD 15,580 million for consumers



GHG Reduction

65% of total emissions reduction

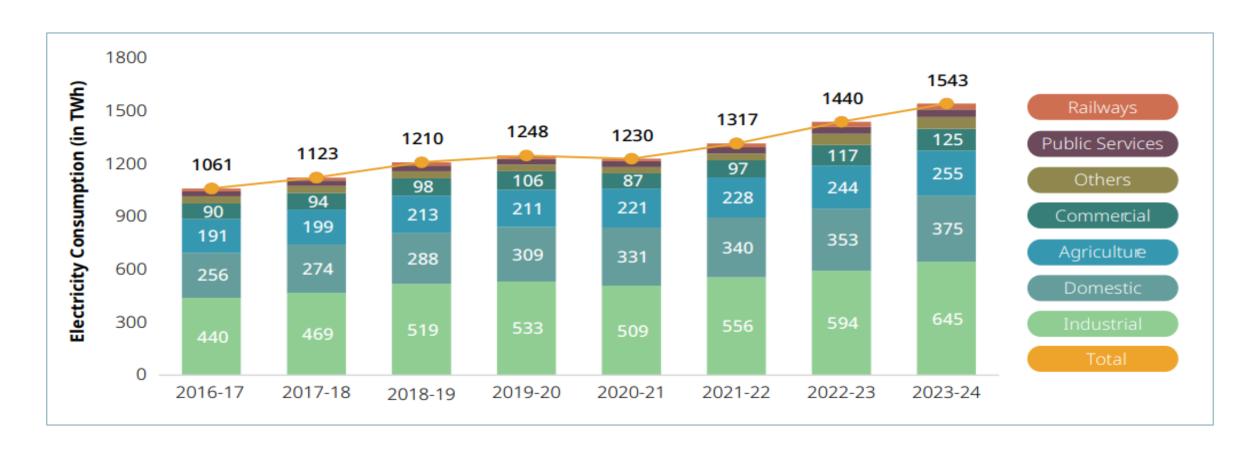
National Climate and Energy Goals



Ranks third in appliance energy efficiency potential

India's Annual Electricity Consumption

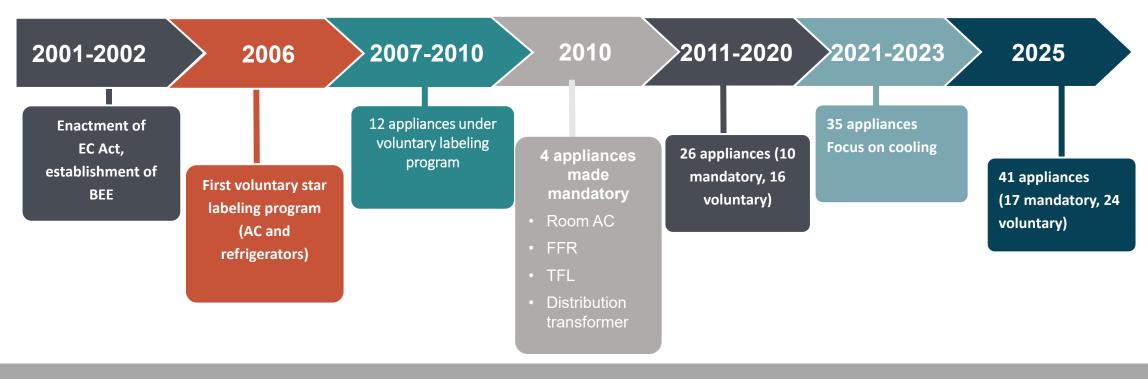




In FY 2023–24, India consumed over 1,500 BU of electricity—42% by industry and 24% by the residential sector, which is growing at 6% annually.

India Star Labeling Program: Overview





IMPLEMENTING PARTNERS



KEY STAKEHOLDERS

Bureau of Indian Standards (BIS)

Industry

Test Labs

State Designated Agencies (SDAs)

India has been preferring comparative labels over endorsement labels



- India has a mix of mandatory and voluntary labels
- Endorsement label has not been preferred and has been used only for laptops / Notebooks

Mandatory Label

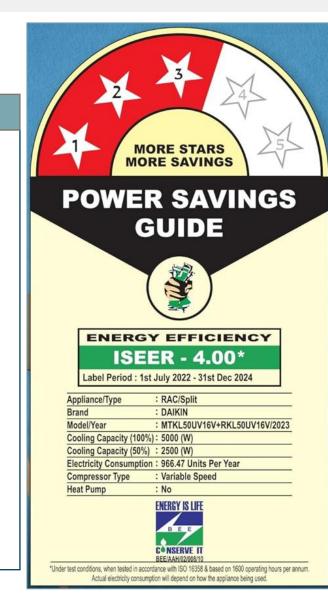
- Stationary Storage Type Electric Water Heater
- **Colour Television**
- Washing Machine
- Room Air Conditioner (Variable Speed)
- TFL 6.
- LED LAMPS
- Chillers 8.
- Light Commercial AC
- Deep Freezers
- Ultra-High Definition (UHD) Televisions
- 12. Room Air Conditioner (Fixed Speed)

- Frost Free Refrigerator 13. RAC (Cassette, Floor Standing Tower, Ceiling, Corner AC)
 - 14. Distribution Transformer
 - 15. Direct Cool Refrigerator
 - 16. Ceiling Fan
 - 17. Domestic Gas Stove

Voluntary Label

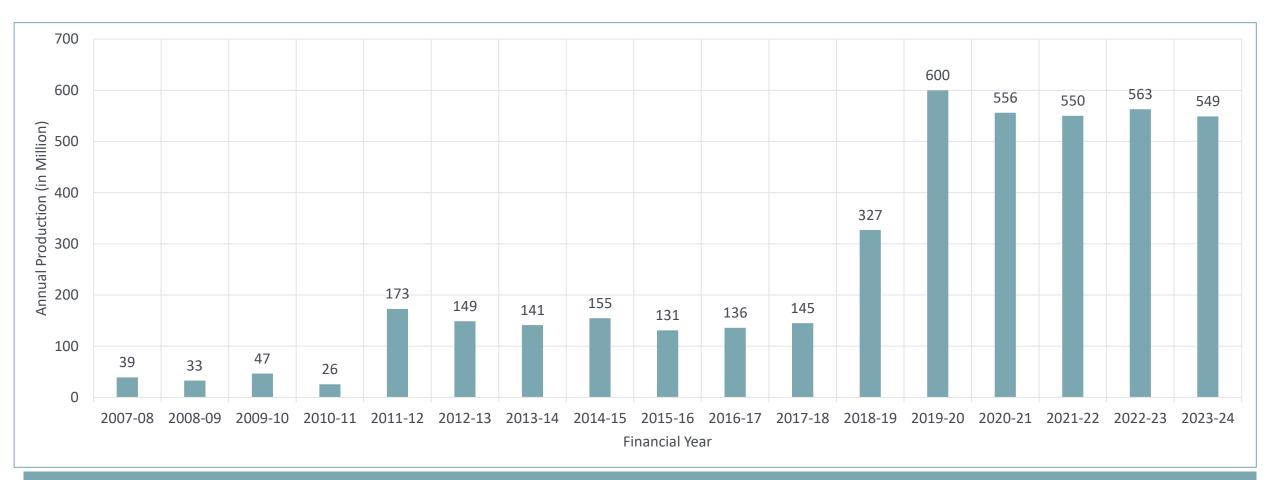
- General Purpose Industrial Motor
- Agricultural Pump Set
- Computer
- Ballast
- Office Automation **Products**
- Diesel Engine Driven Moonset Pumps for Agricultural Purposes
- Solid State Inverter
- Diesel Generator Set
- Microwave Oven
- 10. Solar Water Heater
- 11. Air Compressors
- 12. High Energy Li-Battery
- 13. Tyres/Tires

- 14. Side by Side/Multi Door Refrigerator
- 15. Pedestal Fan
- 16. Table/Wall Fan
- 17. Induction Hob
- 18. Solar photovoltaic module
- 19. Packaged Boiler
- 20. Commercial Beverage cooler
- 21. Grid Connected Solar Inverter
- 22. Refrigerant Compressor
- 23. Evaporative Air Coolers
- 24. EV Charger



Over 4 Billion Star-Labelled Appliances since 2007

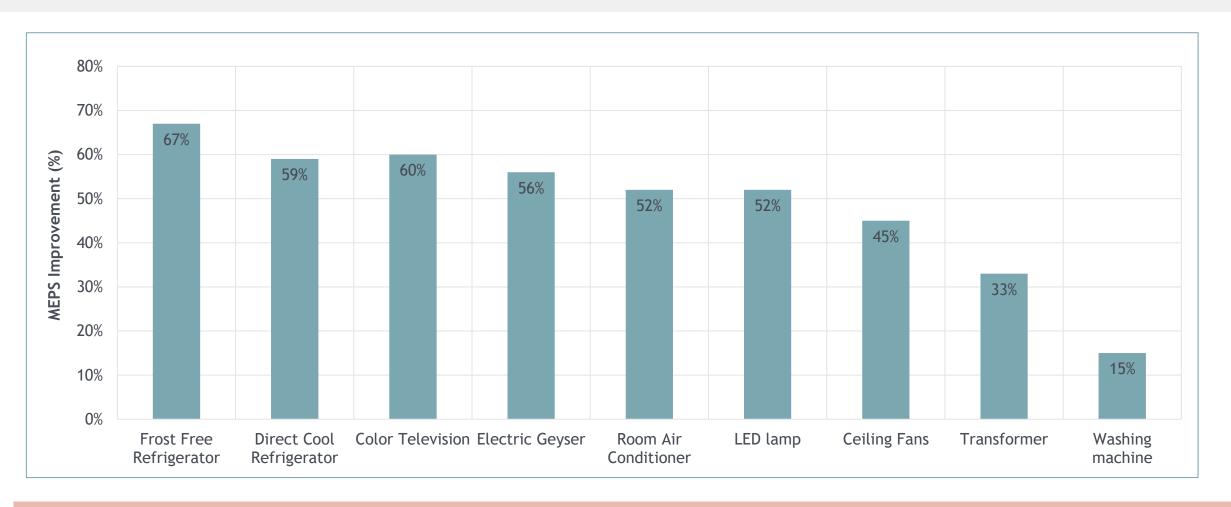




• As of Nov 2024, BEE has registered over **3,500 brands** and **28,000** models, with **4.3 Billion** star-labelled appliances produced since 2007

MEPS Improvement since 2007 to 2026

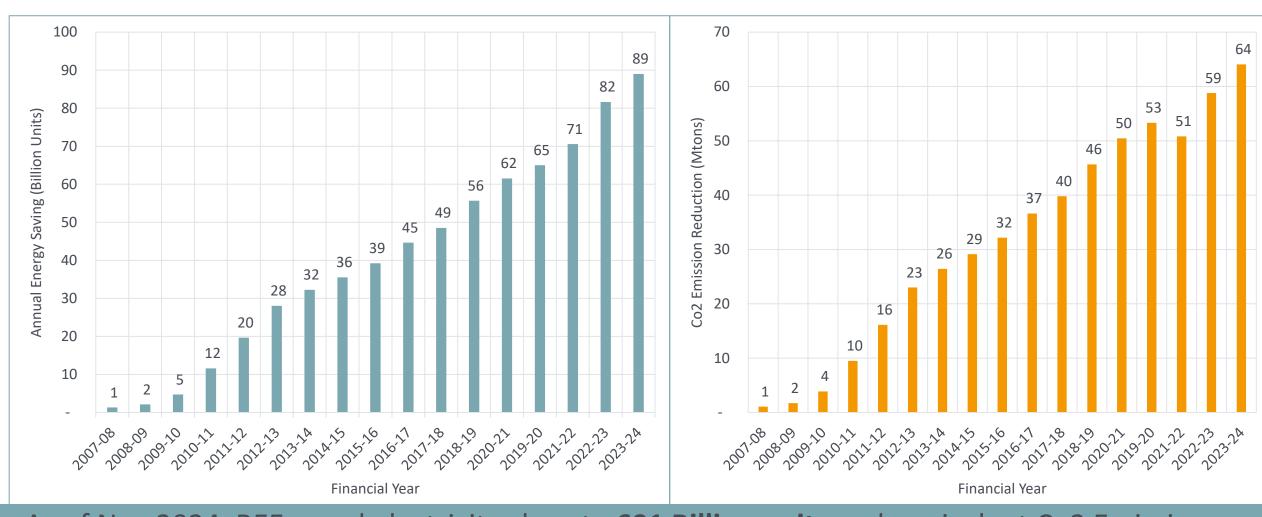




• Since 2007, significant progress in MEPS has been achieved across mandatory appliances—particularly refrigerators, televisions, geysers, room air conditioners, and LED lamps—many of which are now comparable with Global Best MEPS.

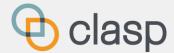
Impacts of S&L Program: Energy Saving and Co2 Emission Reduction





• As of Nov 2024, BEE saved electricity close to **691 Billion units** and equivalent Co2 Emission Reduction of **543 Mtons** since 2007

S&L Compliance in India





Check Testing



BEE or State Designated Agency (SDA) conduct product testing to ensure that product models meet the performance as claimed on the label



Challenge Testing



BEE conducts testing on receipt of written complaint against a any registered product



Market Surveillance



Conducted by BEE or SDA to check the accuracy, correctness and validity of label for the products sold in the market

- In FY 2024–25, BEE completed 20,000+ market surveys across 32 states and is developing mobile app for conducting the surveys.
- BEE plans check testing of 2,000+ appliances under mandatory categories across 36 SDAs in FY 2025–26.

BEE's Strategic Plans Toward 2030



Expand the coverage of the S&L Program from 41 to 50 appliances by 2030 to meet India's climate goals.

Strengthening
the compliance
framework
through
collaborations
with States
Governments

Aligning India's
Energy Efficiency
Standards with
Global Best MEPS
for Key
Appliances

Harmonize of energy efficiency standards with South Asian countries

Thank you! Any questions?

