

Lessons from India



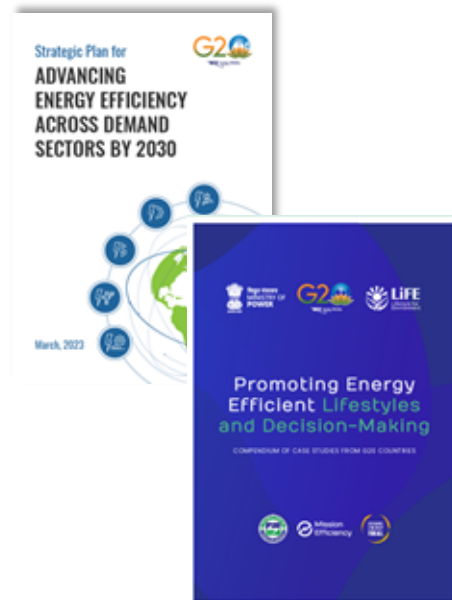
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Supporting India's G20 Presidency Towards Implementation

KEY OBJECTIVES

- The **Strategic Plan for Advancing Energy Efficiency Across Demand Sectors by 2030** was developed under the guidance of the Ministry of Power and the Bureau of Energy Efficiency as a Presidency Document. The study was prepared in partnership with the Alliance for an Energy Efficient Economy, SEforALL and IEA.
- G20 Energy Ministers agreed to focus on actions to meet the goal of **doubling the global rate of improvement in energy efficiency** within this decade, and on a Voluntary Action Plan on Doubling the Global Rate of Energy Efficiency Improvement by 2030.
- This was also recognized in the **G20 New Delhi's Leader Declaration**.
- SEforALL maintains a continuous focus at other COPs and G20 platforms toward doubling energy efficiency, ensuring India remains central to global progress on sustainable energy transitions.



Mission Efficiency India

Powering India's Growth Through Energy Efficiency

- Supported the Government of India's Doubling the Rate of Energy Efficiency goal in collaboration with the Ministry of Power and BEE, aligned with the target of **89.1 MTOE** energy savings by 2030, including contributions to the **National Conference on Doubling Energy Efficiency and Sustainable Cooling** (2025).
- At the state level, SEforALL led the design and rollout of energy efficiency programmes in **Kerala, Maharashtra, and Haryana**, encompassing cold storage modernisation, ESCO empanelment, state-level project pipeline development, shared cooling infrastructure, Steam-as-a-Service models, and public buildings retrofitting.
- Enabled revitalisation of **State Energy Conservation Funds (SECFs)** in partnership with State Designated Agencies (SDAs) to strengthen **sustainable financing** for scaling **energy efficiency investments**.
- Developed and delivered a **Framework for Financial Independence of SDAs**, outlining revenue diversification and investment pathways, with recommendations for reinvestment in staff capacity, tools, and institutional systems.
- Supported the Bureau of Energy Efficiency's introduction of the **NECA 2025 Awards for content creators and influencers**, alongside delivering **national and state-level awareness** campaigns under SEforALL's Energy Efficiency and Cool It programmes through videos, side events, digital tools, case studies, and publications to accelerate adoption.



Advancing demand flexibility ecosystem in India

Building on the momentum under Mission Efficiency, SEforALL is advancing demand flexibility in India by:

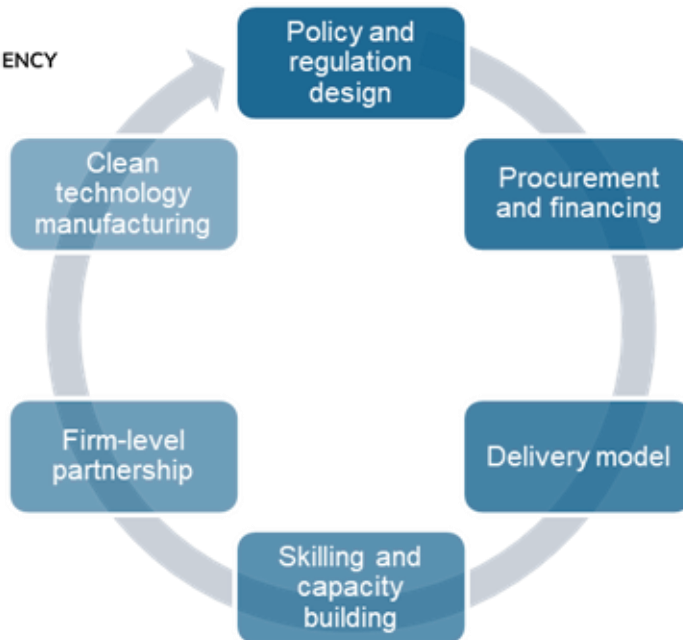
- Advancing demand flexibility regulations discussion across 5 states (Delhi, Kerala, Madhya Pradesh, Gujarat, Assam), with **Maharashtra, Karnataka and Rajasthan** already notified.
- The state of Maharashtra alone has **enabled 3 GW** of demand flexibility over five years - to support renewable energy integration. In total across the 8 states 1.9 GW of annual demand flexibility.
- Pilots with Tata Power and demand-flexible programs with **BEST, MSEDCL, BRPL, BYPL**.
- State-level capacity building for regulators and utilities along with **our DF tool** learnings.
- Published **White Paper on DF opportunities** and regulatory landscape.
- **DF Conclave & Certification** with IIT Bombay (2026).
- Next phase involves technical assistance to states for pilot demonstration, incentive mechanism, and demand flexibility zone identification.



Connecting India's innovations to the Global South



INDIA-GHANA-KENYA EXCHANGE ON ENERGY EFFICIENCY



INDIA-NIGERIA EXCHANGE ON ELECTRIC BUS DEPLOYMENT



Collaboration with NTPC on Energy Transition Planning and Capacity Building

KEY OBJECTIVE

In June 2025, SEforALL signed an MoU with the **National Thermal Power Corporation (NTPC)** towards collaboration on strengthening in-house technical expertise on energy transition planning aligned with NTPC's "Brighter Plan 2023" and Government of India's energy transition and national net-zero 2070 ambition.

Delivering hands-on training to NTPC's technical experts equipping them with the knowledge to operate the SEforALL Energy Systems Model independently to co-create a net-zero roadmap and build their own internal capabilities.

PLANNED ACTIVITIES

- Develop a **least-cost optimized renewable energy system expansion pathway**, leveraging our in-house SEforALL Energy System Model (SEM),
- Build up **national capacity and community of practice** with NTPC through providing training, workshops and energy model knowledge transfer sessions,
- Support **South-South collaboration of state-owned enterprises (SOEs)** to enable knowledge exchange on successes and pitfalls of implementing energy transition pathways.



Hands-on training workshop with NTPC Team on SEforALL Energy Systems Model, Dec 2025



MoU Signing Ceremony, Jun 2025

Doubling Energy Efficiency in India

Accelerating national implementation & advancing global leadership on doubling EE, 2026–28

1. National EE Roadmap & Dashboard

By Apr 2028: Sectoral doubling-EE roadmap, India's first demand-side energy systems model, and a national tracking dashboard, developed with BEE.

2. National AC Replacement Programme

By Apr 2028: 50,000 ACs replaced and present a national scale-up proposal for a 1-million-unit AC replacement programme

3. Mainstreaming Efficiency-First

By Mar 2028: nationwide awareness & capacity building embed an “Efficiency-First” approach across public procurement and institutions

4. Global Leadership via BRICS & G20

By 2028: BEE/MoP supported to elevate doubling EE at BRICS, G20, CEM and South-South exchanges with ASEAN, Africa and the EU

From Policy to Implementation

India and ASEAN exchange practical experience in translating energy efficiency policy into implementation

Policy Guidelines

Translating national targets into actionable technical guidelines, codes and standards - from India's Perform, Achieve and Trade scheme to ASEAN's minimum energy performance standards.

Institutional Capacity

Strengthening the regulators and implementing agencies that carry policy into practice, through training, peer learning and institutional twinning between India's Bureau of Energy Efficiency and ASEAN energy agencies.

Market-Based Mechanisms

Deploying financing and incentive tools ESCO models, energy conservation funds and results-based instruments that make energy efficiency investment bankable across diverse ASEAN markets.