

Power Sector Reforms Programme

Phase II

India - UK Partnering for
Accelerated Climate Transitions

March 2025



About this document

The UK-India bilateral Power Sector Reforms (PSR) Programme (2016-2022) was a partnership to foster India's energy transition journey.

The Programme's holistic interventions laid strong foundations for the uptake of clean energy and the transition towards a low-carbon future.

Phase II of the PSR Programme (2024-2025) builds on this foundation to further strengthen policy and regulatory frameworks in India's power sector, with enhanced capacity of key stakeholders to support sustained, inclusive, and low-carbon economic growth.



This document provides key highlights and outcomes of Phase II of the PSR Programme.

PSR Programme was designed to drive fundamental changes in sector operations, focusing on sustainable and inclusive growth, energy security, and carbon emissions reduction



Supported Ministry of Railways to Achieve their Carbon Neutrality Targets by 2030



International Capacity Building



Launch of Reform and Regulatory Knowledge Base for Power Sector



Establishment of Centre for Energy Regulation



India-UK Energy for Growth Dialogue

2,000+ MW
RE projects conceptualised

£400+ mn
Investments facilitated

35
Beneficiaries

30+
Technical and policy reports

PSR Programme Phase II is focused on regulatory research and bottom-up capacity creation of key stakeholders in the sector

With interventions around institutional strengthening, knowledge exchange, evidence-based tools, and other aspects, PSR Programme Phase II is expected to accelerate the pace of energy transition by enabling stakeholders to take informed decisions on key policy matters around energy security, RE integration, and carbon emissions reduction.

Programme Architecture

PSR II has been structured into three distinct thematic workstreams



Regulatory Research

Regulatory Impact Assessment

Gender Equality and Social Inclusion

Storage in RE Integration

Flexibility and RE Integration

Risk Management in Power Market

Market Monitoring Framework
for the Indian Power Sector



Knowledge-base

Market Monitoring Dashboard

Regulatory Database

Regulatory Insights

Power Chronicle

State Level Load Forecasting Tool

Digital Library



Capacity Building

Institutional Capacity Building

Regulatory Conclave

Young Policy Professional Programme

Capacity Building on Load Forecasting

Key Outcomes



More efficient policy
and regulatory framework



Improved accessibility for
knowledge exchange



Enhanced stakeholder
participation



Improved gender
sensitisation

Key Stakeholders



The Programme is driven by strong engagement across ministries, state governments, central agencies, regulatory bodies, and international agencies.

1 MINISTRY

- Ministry of Power

6 CENTRAL AGENCIES

- Central Electricity Authority
- Central Electricity Regulatory Commission
- Energy Efficiency Services Limited
- GRID India
- NTPC
- POWERGRID

12 STATES

- Delhi
- Haryana
- Kerala
- Madhya Pradesh
- Maharashtra
- Odisha
- Punjab
- Rajasthan
- Tamil Nadu
- Telangana
- Uttar Pradesh
- Uttarakhand

7 INTERNATIONAL AGENCIES

- Council of European Energy Regulators
- Imperial College London
- National Energy System Operator
- Ofgem
- UK Power Networks
- University College London
- University of Cambridge





REGULATORY
RESEARCH

Regulatory Impact Assessment

Developing a framework for informed and accountable regulation

A robust Regulatory Impact Assessment (RIA) framework is essential to ensure effective regulation, protect consumer interests, and foster market efficiency. Implementing RIA in India's power sector would strengthen regulatory processes by systematically evaluating the potential impacts of new regulations, thereby promoting accountability and transparency as seen globally.

Interventions

The PSR Programme undertook a comprehensive study to analyse the economic rationale and global practices of RIA, exploring the evolution and implementation of regulatory frameworks internationally. The study further examined the changing tariff determination practices across different regulatory periods in India, identifying key impacts and justifying the need for a structured RIA approach in the Indian electricity sector.

Outcomes



RIA Framework:

Developed a structured methodology to systematically evaluate impacts of regulatory changes prior to implementation.



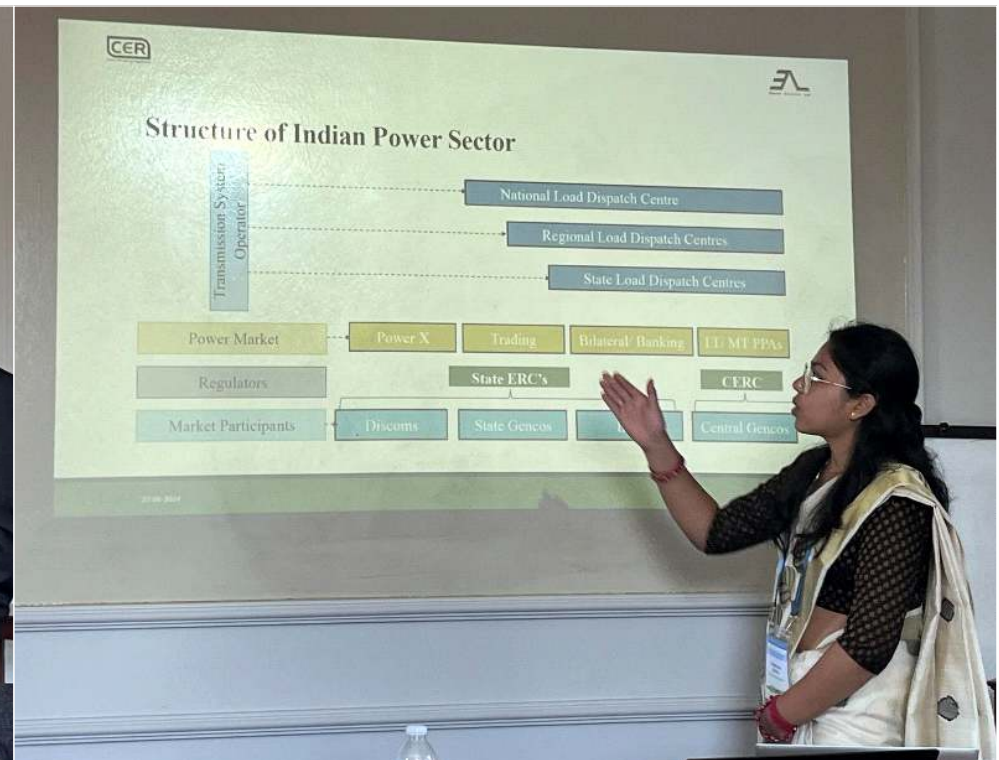
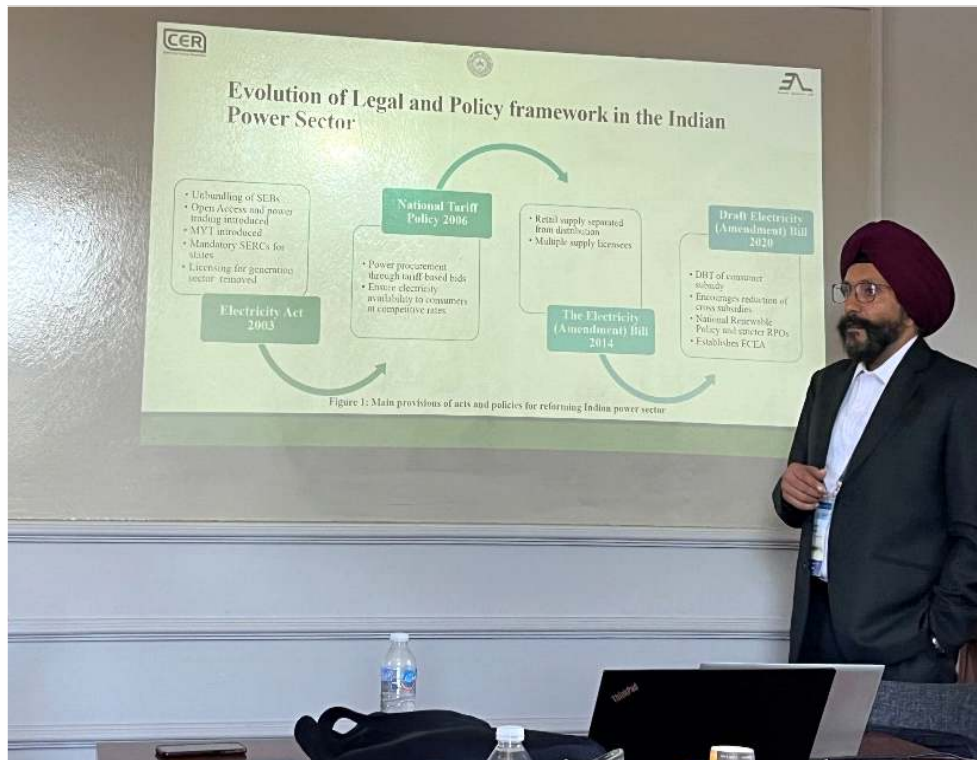
Implementation Guidance:

Provided actionable steps for central and state regulators to integrate RIA into regulatory processes.



Enhanced Stakeholder Accountability:

Promoted equitable regulatory processes by ensuring consumer interests are clearly considered.



Research findings being disseminated at the 45th International Association for Energy Economics (IAEE) Conference

The structured RIA framework will enable regulators to assess impacts comprehensively and transparently, making regulatory processes more inclusive and responsive to stakeholders.

Gender Equality and Inclusion in Governance

Supporting greater gender representation in power regulations

Women remain underrepresented in the regulatory governance framework of the power sector due to systemic challenges such as cultural norms, workplace barriers, management biases, and limited access to training opportunities. Addressing this imbalance is crucial for fostering diversity in decision-making and ensuring more inclusive regulatory processes.

Interventions

The PSR Programme conducted a comprehensive gender gap assessment in India's power sector regulation, involving an online survey across 9 countries and 30 state / joint electricity regulatory commissions. This study mapped existing barriers to women's participation, analysed global best practices, and identified strategies to enhance gender representation, particularly in leadership roles.

Outcomes



Policy Recommendations:

Developed actionable strategies, including reservation policies, training programs, and online learning access to improve gender inclusivity.



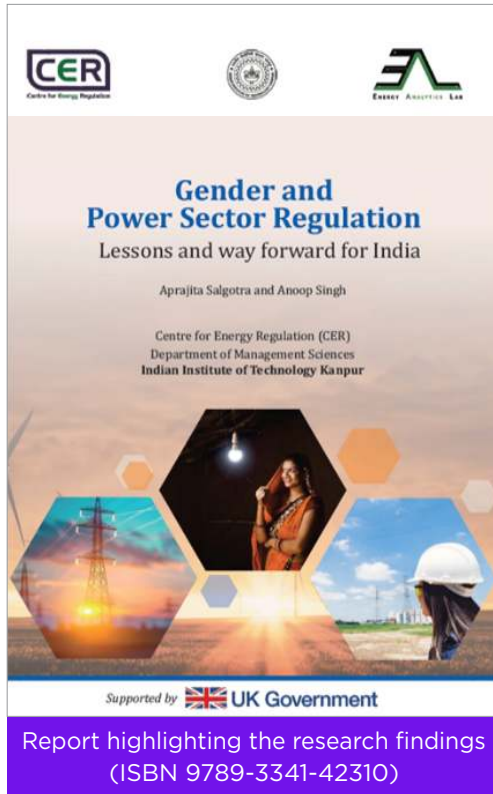
Stakeholder

Engagement: Key findings were presented and discussed at the Regulatory Conclave on 07th September 2024 to drive awareness and institutional change.



Knowledge Publication:

Insights from the study have been compiled into the book "Gender and Power Sector Regulation: Lessons and Way Forward for India" (ISBN: 9789-3341-42310).



The research work lays the foundation for transforming gender inclusion in power sector regulation – paving the way for more women in leadership roles.



Role of Storage in RE Integration

Optimising grid stability through battery storage solutions

As India accelerates its RE expansion, managing intermittency and ensuring grid stability has become critical. To address the variability inherent in sources like solar and wind, India is increasingly investing in battery energy storage systems (BESS) and other storage solutions, backed by supportive policies and regulatory frameworks.

Interventions

The PSR Programme developed an advanced optimisation model leveraging mixed-integer linear programming. This model strategically optimises power generation by integrating conventional generators, RE sources, and battery storage systems in real-time. Piloted successfully in Chhattisgarh, the model leverages state-specific data, making it readily adaptable for other states and regions, facilitating nationwide deployment.

Outcomes



Advanced Optimisation Model:

Delivers accurate projections for integrating grid-scale battery storage.



Economic Feasibility Analysis:

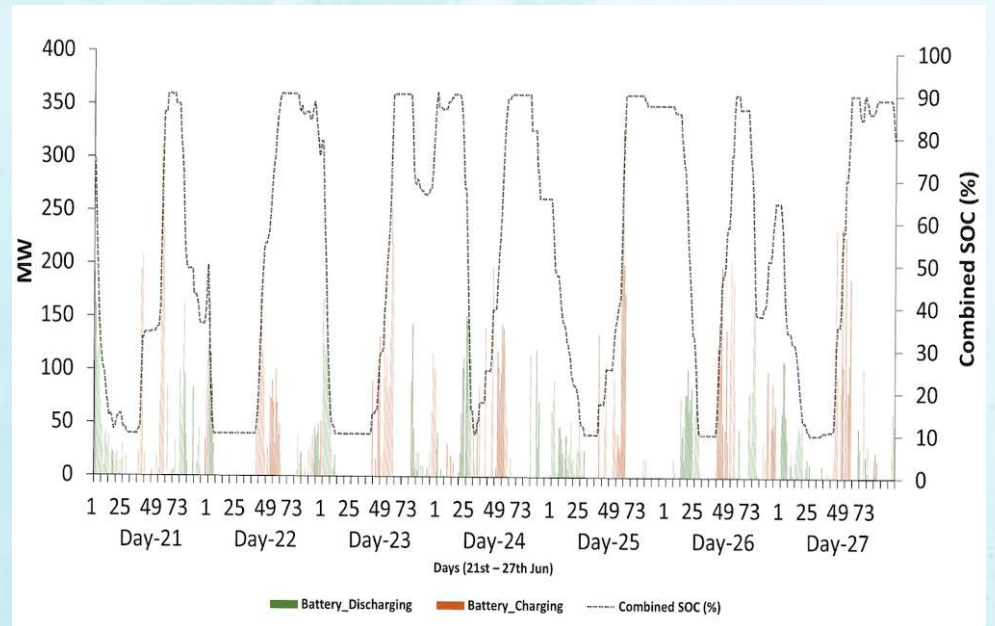
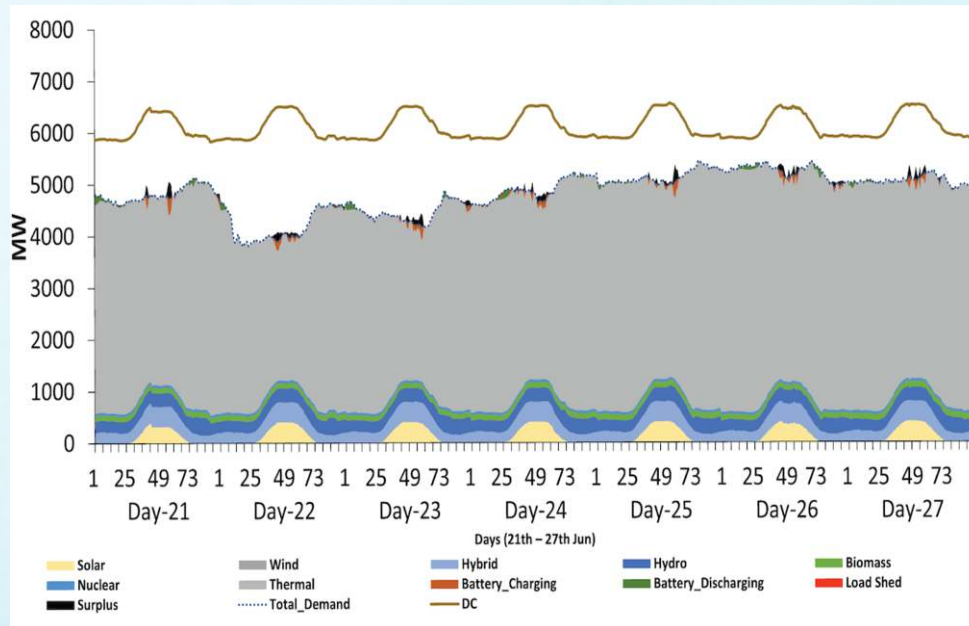
Provides critical insights into investment viability for large-scale BESS deployment.



Adaptability and Scalability:

Model is designed for easy replication, enabling other states to adopt customised strategies.

Snapshot of Chhattisgarh state study on projected demand of FY26



The PSR Programme introduced a sophisticated optimisation model, enhancing decision-making capability for BESS integration, improving grid stability, and investment clarity.



Flexibility and RE Integration

Strategy for flexibilisation of thermal generation under increasing RE integration

Traditionally, coal-fired plants were optimised for base and mid-load provisions. However, today the plants need to have higher operational flexibility to accommodate the increasing mix of RE sources which are variable and uncertain in nature.

Interventions

The study by the PSR Programme highlights the challenges posed by variable RE and the consequent need for greater power system flexibility. It specifically examines the role of flexibilisation of coal-fired power plants in mitigating the impacts of RE intermittency and delves into the existing regulatory frameworks and policies designed to promote thermal plant flexibility. The methodology comprised literature review and econometric analysis using data from 2021 to 2024.

Outcomes



Identification of Priority Thermal Plants:

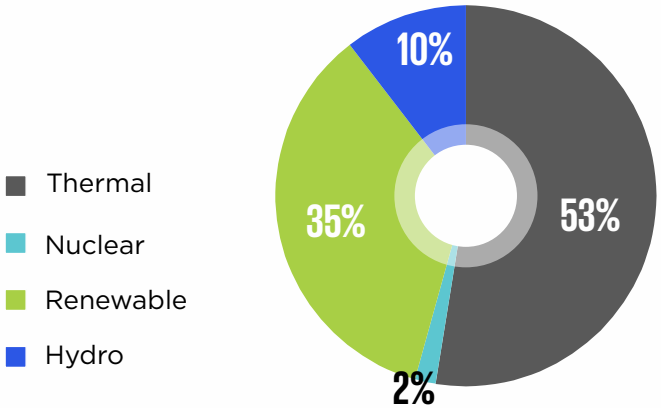
Plants with higher variable cost are more suited for flexibilisation as they operate below full capacity or function as system marginal plants.



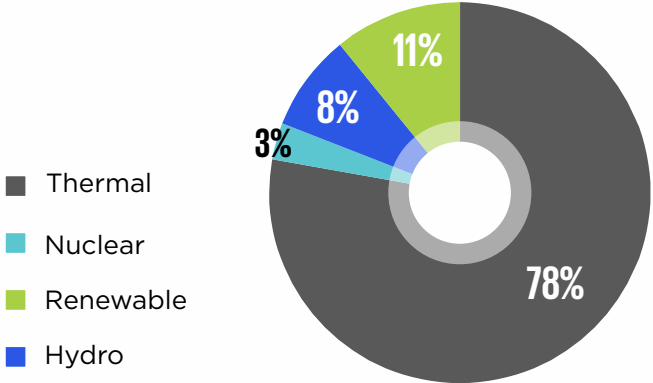
Dissemination:

Findings presented at the 45th IAEE International Conference at Istanbul in June 2024.

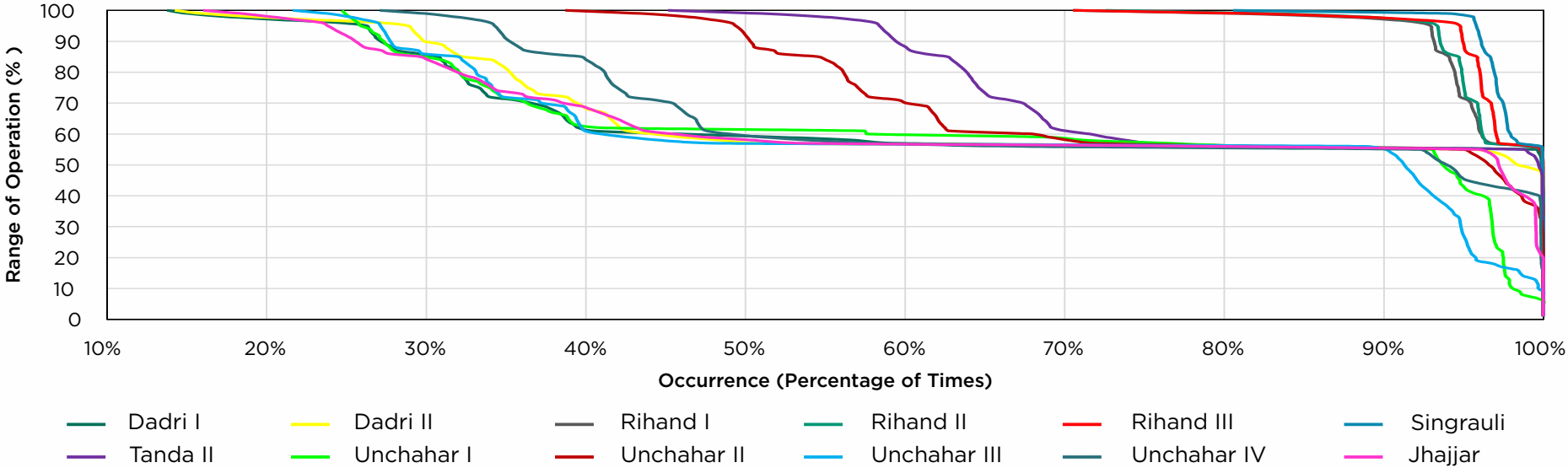
All India Installed Capacity (457 GW) - Till 2024



All India Power Generation - 2024 (1751 BU)



Flexibilisation Potential of Thermal Power Plants



The study provides policy and regulatory recommendations for the promotion of flexible operations of thermal power plants.



Market Monitoring Framework for the Indian Power Sector

Strengthening market oversight for competitive and transparent power markets

A robust market monitoring framework is essential to ensure fair competition, prevent market manipulation, and enhance transparency in the Indian power sector. While market surveillance mechanisms exist, the level of data sophistication and analytical rigour required for effective monitoring needs further refinement.

Interventions

The PSR Programme developed an enhanced market monitoring framework by identifying key market competitiveness indices such as Maximum Market Share, Concentration Ratios (4-CR and 5-CR), Herfindahl Hirschman Index (HHI), Residual Supplier Index (RSI), Pivotal Supplier Indicator (PSI), and Lerner's Index. The framework also incorporated methods for assessing bidding behavior and drew insights from global market monitoring frameworks in the USA and Europe. Additionally, it evaluated different approaches to market monitoring – self-monitoring, independent monitoring, and regulation-driven monitoring – tailoring recommendations for the Indian context.

Outcomes



Comprehensive Market Competitiveness Framework: Defines a structured methodology for assessing market concentration and bidding behavior.

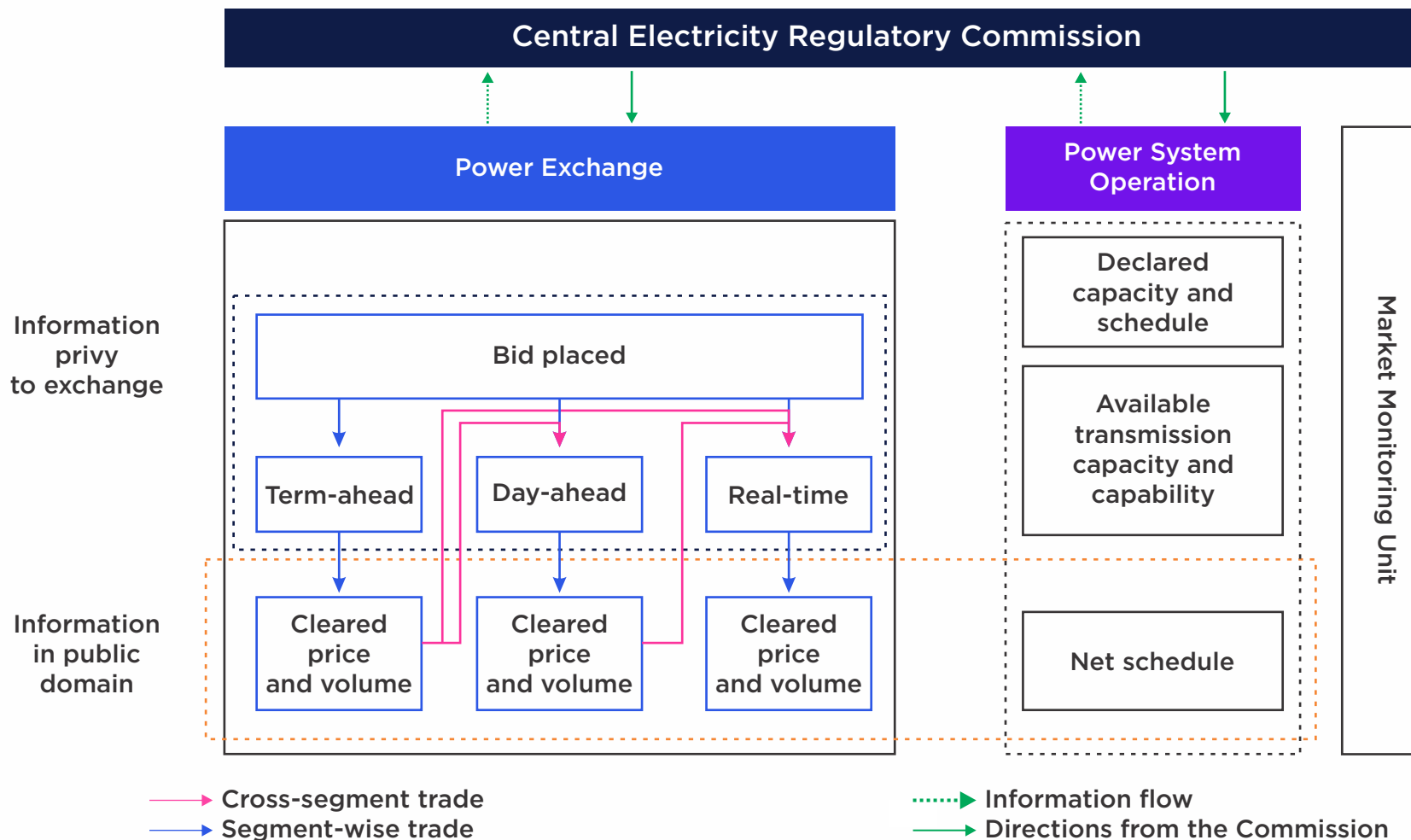


Granular Market Analysis: Introduces monitoring at the time-block level to improve oversight of market dynamics.



Guidance for Unified Monitoring Approach: Recommends an integrated framework for market monitoring in India, balancing regulatory and independent oversight.

Framework for Effective Market Monitoring



The new framework provides a structured and data-driven approach, equipping regulators with the tools necessary for effective surveillance and ensuring a competitive and transparent power market.



Dissemination at the 45th International Association for Energy Economics Conference

The International Association for Energy Economics (IAEE) organised the 45th IAEE International Conference in June 2024, bringing together energy professionals from the private sector, government, and academia from around the world.

The conference, titled “Energy Sustainability, Security, Efficiency, and Accessibility in a Time of Transition,” addressed issues such as oil and gas security, climate change and limiting greenhouse gas emissions, uncertainties in energy prices, and the challenges of meeting future energy needs and long-term technology options.

Outcomes

The following research work, conducted under the PSR Programme Phase II, was presented at this forum:



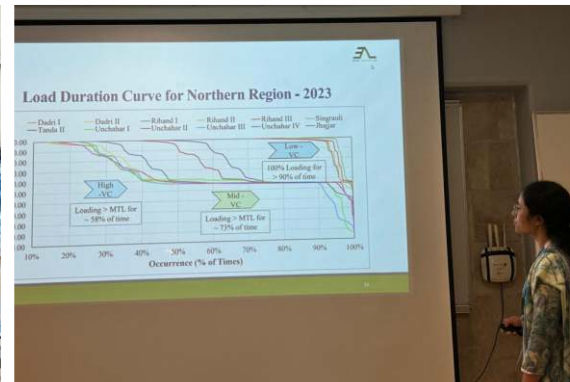
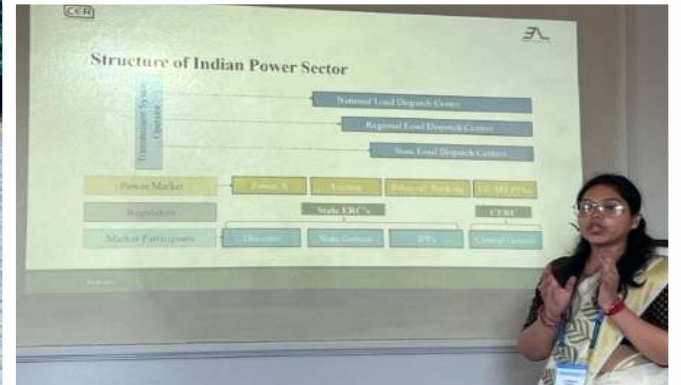
An Incentive-based Regulatory Framework for Regulated Tariff Determination of Electricity Generating Plants



A Strategy for Flexibilisation of Thermal Generation under Increasing RE Integration



Market-linked Futures Contract: A Stackelberg Game Theoretic Approach







KNOWLEDGE-BASE



Power Sector Regulatory Oversight and Market Performance Tracking (PROMPT) Dashboard

Enhancing power market oversight and performance monitoring

Effective regulatory oversight and market monitoring are essential to ensure competitive electricity markets, prevent market manipulation, and promote transparency. Traditional methods of tracking power market performance often lacked analytical insights, making it challenging to assess competitiveness and participant bidding behavior dynamically.

Interventions

The PSR Programme supported the development of a dynamic PROMPT Dashboard to enhance regulatory monitoring for the CERC. This interactive dashboard integrates key market performance indicators such as Maximum Market Share, Concentration Ratios (4-CR and 5-CR), Herfindahl Hirschman Index (HHI), and Residual Supplier Index (RSI) to assess market competitiveness. Additionally, it enables the analysis of bidding behavior and participant-wise bid patterns for buyers and sellers across different market segments. The platform also features automated daily, weekly, and monthly report generation and ensures data security through two-factor authentication.

Outcomes



Advanced Market Monitoring Tool:

Provides real-time visual analytics on market competitiveness and bidding trends.



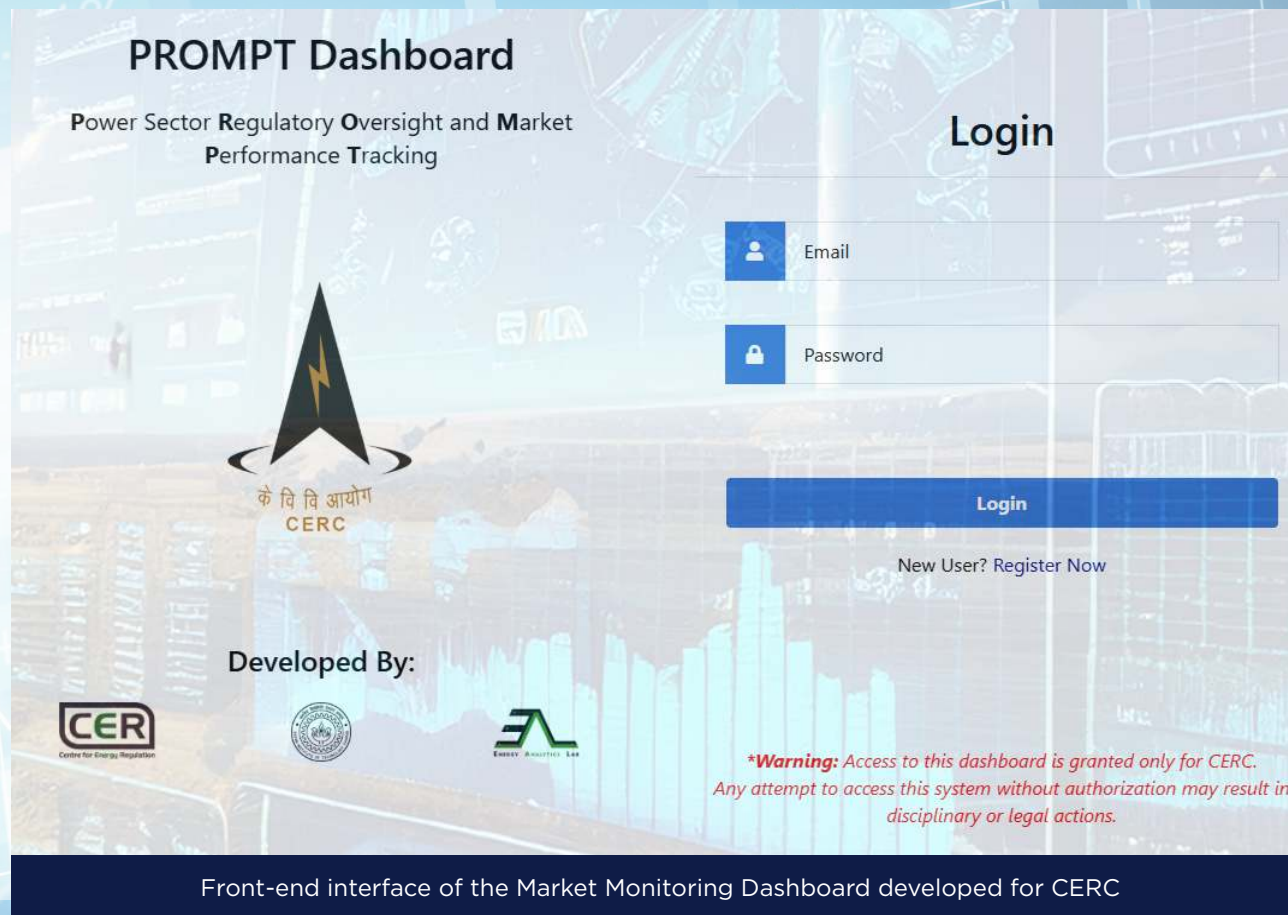
Automated Reporting System:

Generates periodic reports to enhance regulatory efficiency and reduce manual workload.



Secure and Scalable Platform:

Ensures data integrity with two-factor authentication while allowing seamless comparison across market segments.



The PROMPT Dashboard introduced automated analytics, enabling CERC to strengthen market monitoring and improve decision-making.



Regulatory Database

Bringing key regulatory information on a single platform

Ensuring transparency and accountability in regulatory decisions is critical for an efficient power sector. As state electricity regulatory commissions (SERCs) continue to evolve, the need for accurate, reliable, and accessible regulatory data remains essential to support informed policymaking and sectoral improvements.

Interventions

The PSR Programme supported the development of the Regulatory Database, a centralised web portal designed to provide a comparative analysis of DISCOM performance based on the latest retail tariff filings. This database integrates interactive data visualisation and advanced analytical tools, enabling users to track trends, conduct data-driven evaluations, and support regulatory decision-making. The platform strengthens evidence-based policymaking and contributes to a more transparent, sustainable, and equitable energy distribution system.

Outcomes



Comprehensive Database:

Aggregates over 1 million data points from 60+ DISCOMs since FY 2008-09, facilitating historical performance tracking.



Interactive Dashboard:

Provides an interactive dashboard for comparative utility performance benchmarking, enhancing regulatory oversight.



User-friendly Interface:

Features interactive graphs and comparative analytics, ensuring seamless access to regulatory insights for stakeholders.

Regulatory Data Dashboard

Feedback

Abbreviations

Selected State/UT (1)

Selected Discoms (6)

Selected Year (1)

Selected Report (1)

* Select upto 20 data points at a time.

SUBMIT

Current Selection:

Uttar Pradesh > NPCL, KESCO, PUVNL, PuVVNL, DVVNL, MVVNL | 2023-24 | ARR - Approved (AA)

By Discom By Year

Per Unit Absolute

Data Points

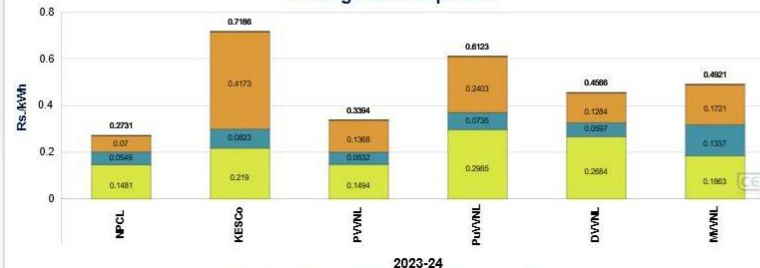
Average Cost of Supply



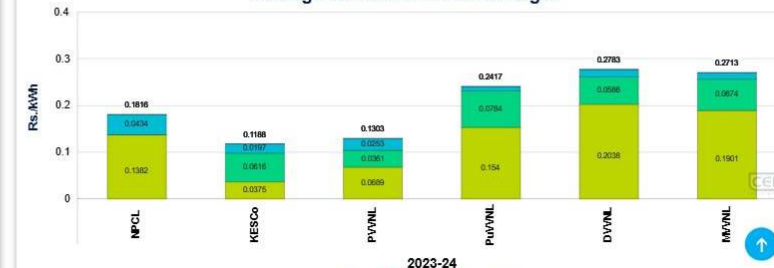
Average Power Purchase Cost



Average O&M Expenses



Average Interest & Finance Charges



Visualisation and analytics offered by the Regulatory Dashboard

PSR introduced a centralised, interactive regulatory database, significantly enhancing data accuracy, utility benchmarking, and regulatory accountability, resulting in more informed regulatory decisions.



Digital Library

Centralised repository for policy documents

Access to policy frameworks, regulations, and technical guidelines is critical for informed decision-making in the power sector. However, these resources are often dispersed across multiple platforms or housed in physical archives, limiting accessibility. A centralised digital repository is essential for seamless knowledge sharing, research, and policy development.

Interventions

The PSR Programme helped CEA develop a web-based digital library that aggregates policy documents, regulatory guidelines, and technical reports. The platform, developed by KPMG*, catalogues 17,000+ books and documents from CEA's library, offering a user-friendly access point for industry professionals, regulators, and researchers. With AI-driven search capabilities and partial generative AI, the tool enhances knowledge discovery and streamlines research efforts.

Outcomes



Centralised One-stop Knowledge Platform:

Enables evidence-based policy and regulatory decision-making.



Digital Cataloguing and Issuance System:

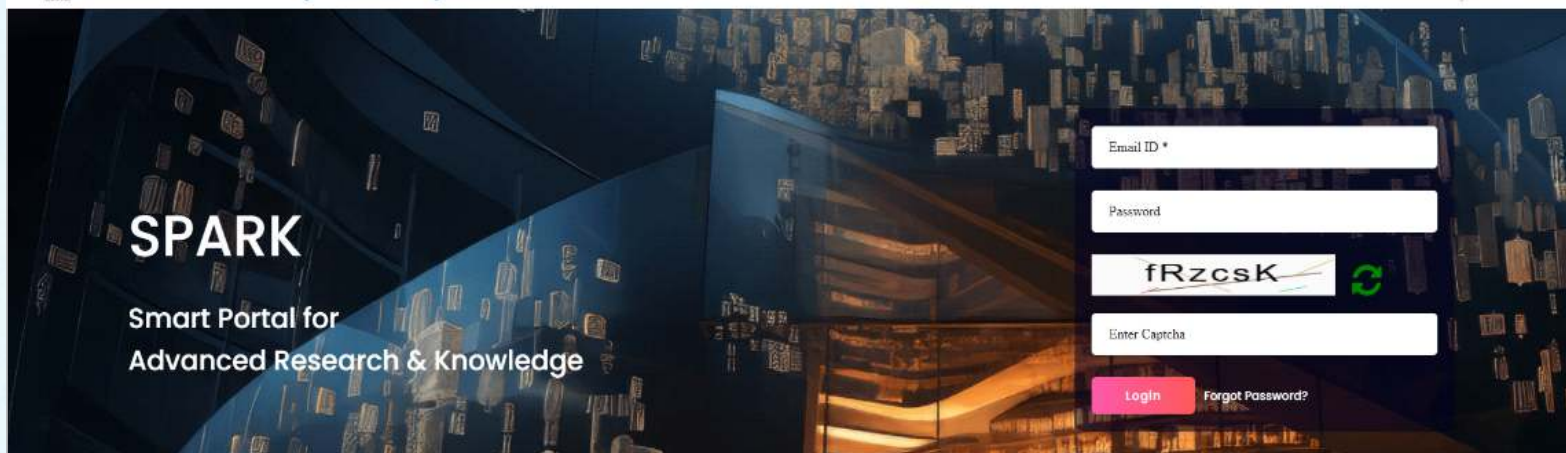
Facilitates efficient management of 17,000+ physical books and documents, improving accessibility.



AI-powered Search and Retrieval:

Enhances user experience through intelligent recommendations and document classification.

*This work package was implemented by IIT Kanpur with KPMG as its downstream partner.



Smart Portal for Advanced Research and Knowledge (SPARK) – Front-end interface of the digital library



Sensitisation and capacity building sessions being conducted at CEA

The PSR Programme developed a centralised digital repository, integrating 17,000+ books and documents at CEA with AI-powered search for faster information retrieval.

Automated Tool for Load Surveys

Streamlining and automating data collection from DISCOMs

CEA traditionally relies on manual methods, such as email exchanges, to collect state-level load data from DISCOMs. This process is time-consuming, labour-intensive, and prone to inefficiencies, delaying data analysis and decision-making.

Interventions

The PSR Programme supported CEA in developing an automated tool for conducting load surveys, enabling seamless and standardised data submission from utilities. This centralised platform, developed by KPMG*, allows ~80 DISCOMs to directly submit monthly load data through a single interface, eliminating the need for manual intervention and significantly improving data processing efficiency.

Outcomes



Centralised Digital Platform: Facilitates real-time submission and management of load data across DISCOMs.



Elimination of Manual Processing: Reduces administrative workload, freeing up personnel for analytical tasks.



Improved Efficiency and Accuracy: Enhances data integrity and reporting speed for better decision-making.

*This work package was implemented by IIT Kanpur with KPMG as its downstream partner.



Front-end of the integrated tool for automated load survey and forecasting



Launch of the tool at the Northern Regional Power Committee meeting on 11th March 2025

PSR Programme introduced a fully automated tool for conducting load surveys, significantly reducing reporting time and effort for 80+ DISCOMs.



State-level Load Forecasting Tool

Enhancing accuracy in electricity demand projections

Accurate electricity demand forecasting is critical for effective power sector planning. It enables optimal power procurement to prevent shortages or excess generation, peak demand management for grid stability, renewable energy integration by aligning supply with projected demand, and risk mitigation for utilities, reducing financial and operational uncertainties.

Interventions

The PSR Programme supported CEA in developing a state-level load forecasting tool to enhance long-term electricity demand projections. This model, piloted in Rajasthan, leverages generalised additive models and quantile regression averaging to improve forecasting accuracy. The tool, developed by KPMG*, incorporates multiple scenarios, factoring in socio-economic trends, weather fluctuations, EV adoption, and industrial growth patterns.

Outcomes



Advanced Forecasting Model:

Provides accurate electricity demand projections over a 5-10-year timeframe to support strategic planning.



Scalable and Replicable Tool:

Designed for easy adaptation by other states, ensuring broader implementation across India.



Institutionalisation at CEA:

Embedded within CEA's operations, ensuring sustained use and capacity building for stakeholders.

*This work package was implemented by IIT Kanpur with KPMG as its downstream partner.



Launch of the tool at the Northern Regional Power Committee Meeting on 11th March 2025



The PSR Programme introduced an advanced forecasting tool, thereby improving long-term demand estimation for better resource planning.



Periodicals

Delivering regular insights for informed decision-making

Timely access to comprehensive regulatory updates and market analyses is essential for informed decision-making among stakeholders. Before PSR's intervention, stakeholders in India's power sector faced fragmented and delayed dissemination of regulatory insights and market intelligence, limiting their preparedness and responsiveness to emerging challenges.

Interventions

The PSR Programme, through the Centre for Energy Regulation (CER) and Energy Analytics Lab (EAL), publishes two quarterly periodicals: *Regulatory Insights* – ISSN: 2583-2182 (O) and *Power Chronicle* – ISSN: 2583-2182 (O). These publications provide detailed analyses of regulatory developments, tariff regulations, RE integration, and power market dynamics. Sections include Regulatory Outlook, ERC Tracker, Power System and Market Analysis, and Editorial Insights, ensuring stakeholders remain informed on crucial sectoral trends.

Outcomes



Sectoral Insights:

Regular updates on tariff regulations, open access policies, RE trends, and detailed analyses of power market indicators.



Interactive Benchmarking

Tools: ERC Tracker and market analytics enable stakeholders to compare and assess regulatory practices and market performance effectively across states.



Extensive Stakeholder

Outreach: Quarterly dissemination reaches a broad spectrum of stakeholders across India's power sector.





CAPACITY
BUILDING



Institutional Capacity Building

Fostering global collaboration for regulatory excellence

International collaborations help to enrich the research agenda, foster global partnerships, and address cross-border challenges in energy governance. It also helps build capacity for adoption of new skills and knowledge as well as for accelerated uptake of key interventions.

Interventions

The PSR Programme organised a comprehensive 5-day Institutional Capacity Building (ICB) Programme in October 2024, conducted in London and Brussels. The initiative facilitated knowledge exchange on advanced regulatory frameworks in tariff design, electricity market structures, retail competition, and low-carbon generation policies. Experts from prominent institutions including Ofgem, University of Cambridge, National ESO, UCL, and CEER conducted 16 interactive sessions and site visits, offering firsthand insights into European regulatory best practices.

Outcomes



Knowledge Exchange:

Facilitated transfer of international regulatory best practices in the power sector.



Capacity Enhancement:

Strengthened institutional knowledge and regulatory capabilities of delegates.



Stakeholder Participation:

18 delegates from Indian institutions engaged directly with over 15 international experts.



Some energy costs are energy policy costs in GB
Breakdown of household energy bill

	Electricity	Gas	Per kWh	Per household
October - December 2024				
Variable				
AG	Residential Electricity	58.58		
CC	Carbon Pricing	25.00		
EC	Energy Efficiency	25.00	25.00	
EE	Energy Efficiency	25.00		
DCC	China Construction Limited Co.	14.92	25.00	
WHD	Waste Management	25.00	25.00	
CCP	Construction (Infrastructure)	15.54		
WHD	Waste Management	14.92		
Variable				
AG	Residential Electricity	114.92	58.58	
Network costs				
AG	Residential Electricity	22%	7%	
Network costs				
AG	Residential Electricity	22%	19%	

Source: Ofgem Price Cap Data, Standard Credit



Glimpses from the knowledge exchange visit to the UK in October 2024

PSR established structured global engagements, significantly enhancing India's regulatory capacity and enabling the integration of global best practices into India's energy transition pathways.

Regulatory Conclave

Institutionalising a mechanism for knowledge exchange

Regulatory instruments significantly influence various stakeholders, necessitating structured platforms for dialogue and knowledge exchange. The Regulatory Conclave serves as a dedicated online platform for policymakers, regulators, industry representatives, and other stakeholders to share insights, discuss best practices, and address critical regulatory challenges.

Interventions

The PSR Programme has institutionalised the Regulatory Conclave to enable structured and periodic engagement on contemporary regulatory and policy issues. This initiative has established an engaging platform for communication and collaboration among key power sector stakeholders, fostering an inclusive and informed regulatory ecosystem.

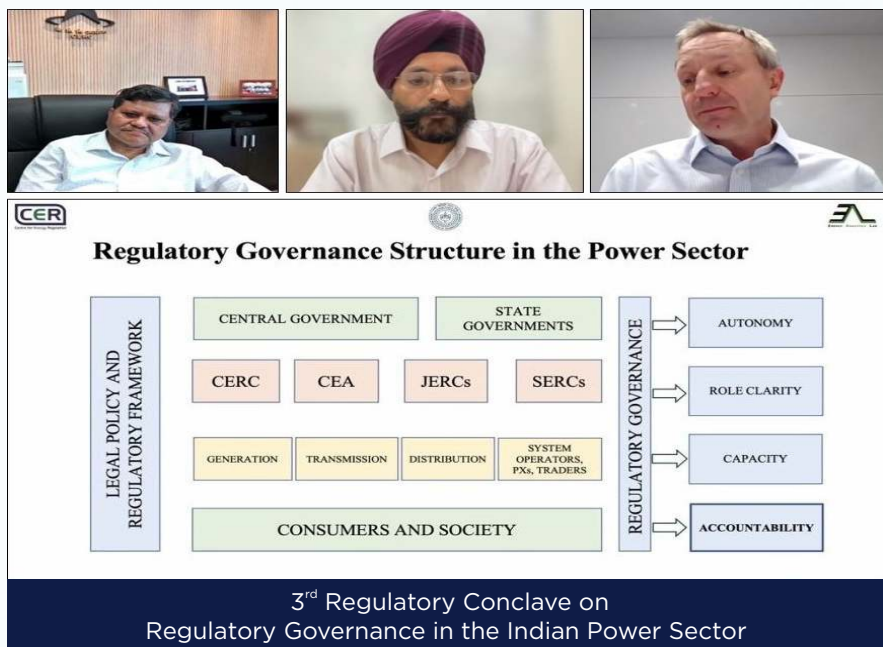
Outcomes



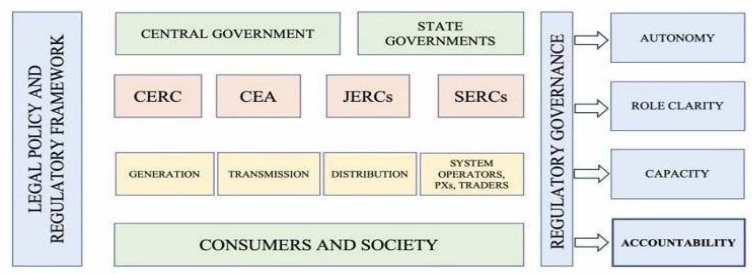
- Thematic Regulatory Conclaves:** Conducted 4 conclaves focused on –
- Regulatory Governance in the Indian Power Sector
 - Regulatory Governance in the Indian Power Sector: Reporting and Accounting Framework for ERCs
 - Role of Women in Power Sector Regulation
 - Resource Adequacy Framework for Distribution Utilities: Methodological and Implementation Issues
 - Energy Transition and Framework for Renewable Purchase Obligation (RPO)



Institutionalised Stakeholder Collaboration: Established a formal and recurring platform to enhance consensus-building and shape progressive regulatory frameworks.



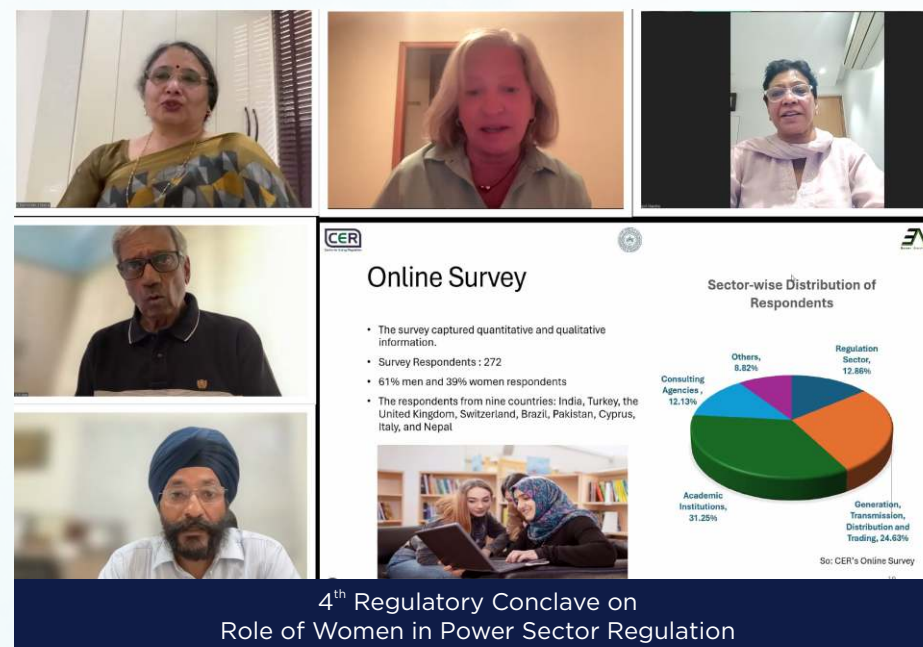
Regulatory Governance Structure in the Power Sector



The diagram illustrates the Regulatory Governance Structure in the Power Sector. It is organized into four main horizontal layers:

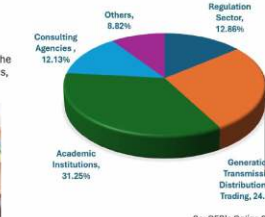
- LEGAL POLICY AND REGULATORY FRAMEWORK** (Left side, vertical label)
- CENTRAL GOVERNMENT** (Top layer, containing CERC, CEA, JERCs, and SERCs)
- STATE GOVERNMENTS** (Top layer, containing JERCs and SERCs)
- REGULATORY GOVERNANCE** (Right side, vertical label)
- GENERATION, TRANSMISSION, DISTRIBUTION, SYSTEM OPERATORS, PXs, TRADERS** (Middle layer)
- CONSUMERS AND SOCIETY** (Bottom layer)
- REGULATORY GOVERNANCE OUTCOMES** (Right side, vertical label, with arrows pointing to):
 - AUTONOMY
 - ROLE CLARITY
 - CAPACITY
 - ACCOUNTABILITY

3rd Regulatory Conclave on Regulatory Governance in the Indian Power Sector



Online Survey

- The survey captured quantitative and qualitative information.
- Survey Respondents : 272
- 61% men and 39% women respondents
- The respondents from nine countries: India, Turkey, the United Kingdom, Switzerland, Brazil, Pakistan, Cyprus, Italy, and Nepal



Sector-wise Distribution of Respondents


Sector	Percentage
Academic Institutions	31.25%
Consulting Agencies	12.13%
Others	8.82%
Regulation Sector	12.86%
Generation, Transmission, Distribution and Trading	24.63%

So: CER's Online Survey

4th Regulatory Conclave on Role of Women in Power Sector Regulation



5th Regulatory Conclave on Resource Adequacy Framework for Distribution Utilities



6th Regulatory Conclave on Energy Transition and Framework for Renewable Purchase Obligation

The Regulatory Conclaves significantly enhanced stakeholder engagement, knowledge-sharing, and collective problem-solving, resulting in stronger and more inclusive regulatory frameworks.



Young Policy Professional Programme

Bridging academia and policy through research fellowships

Young researchers in engineering, economics, law, and social sciences need exposure to the practical aspects of regulation and policymaking in the energy and infrastructure sector to expand their research horizons. The Young Policy Professional Program (YPPP) is designed to address this gap by offering a mentored research fellowship to senior PhD scholars working on regulatory and policy issues relevant to the Indian power sector.

Interventions

The PSR Programme, through YPPP initiative, provided young scholars with opportunities to collaborate through research exchange programmes at IIT Kanpur. This activity focused on building research capacity, fostering global engagement, and enhancing regulatory knowledge in India's energy sector.

Outcomes

Successful completion of research programs by two young scholars on the following topics:



Analysis of Power Generation Potential of Major Operational and Planned Solar PV and Wind Energy Plants in India

Aravinda De Chinnu

Department of Energy Sciences and Engineering,
IIT Bombay



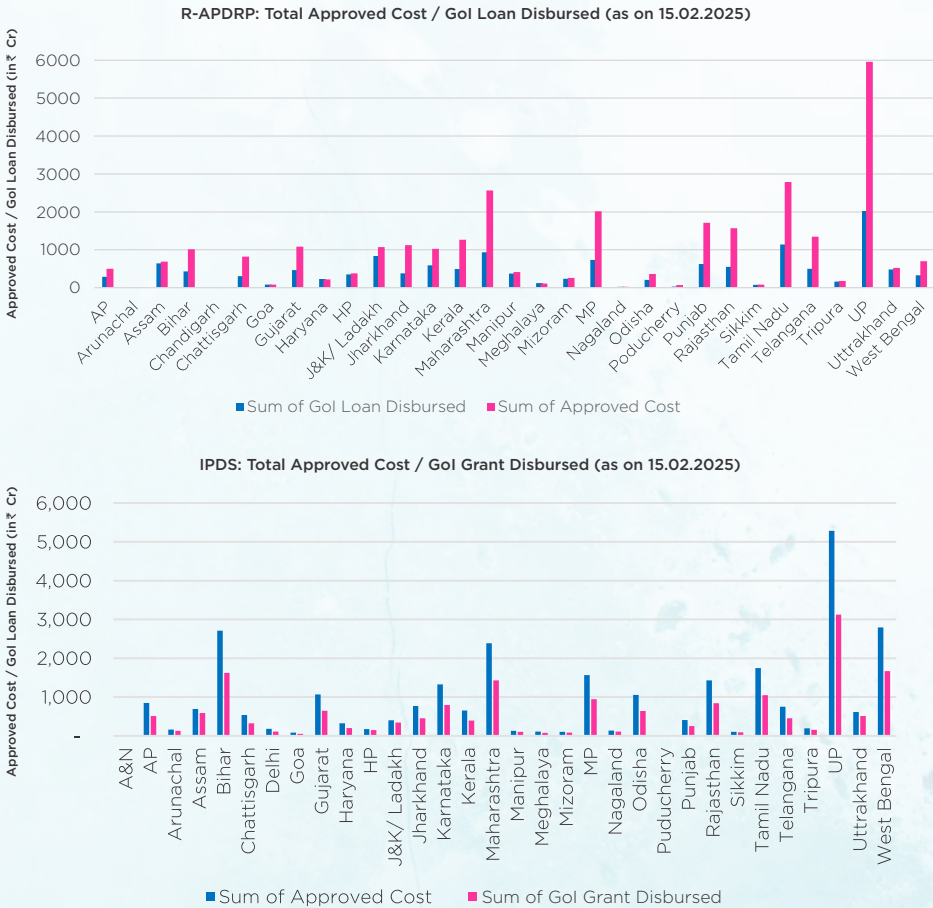
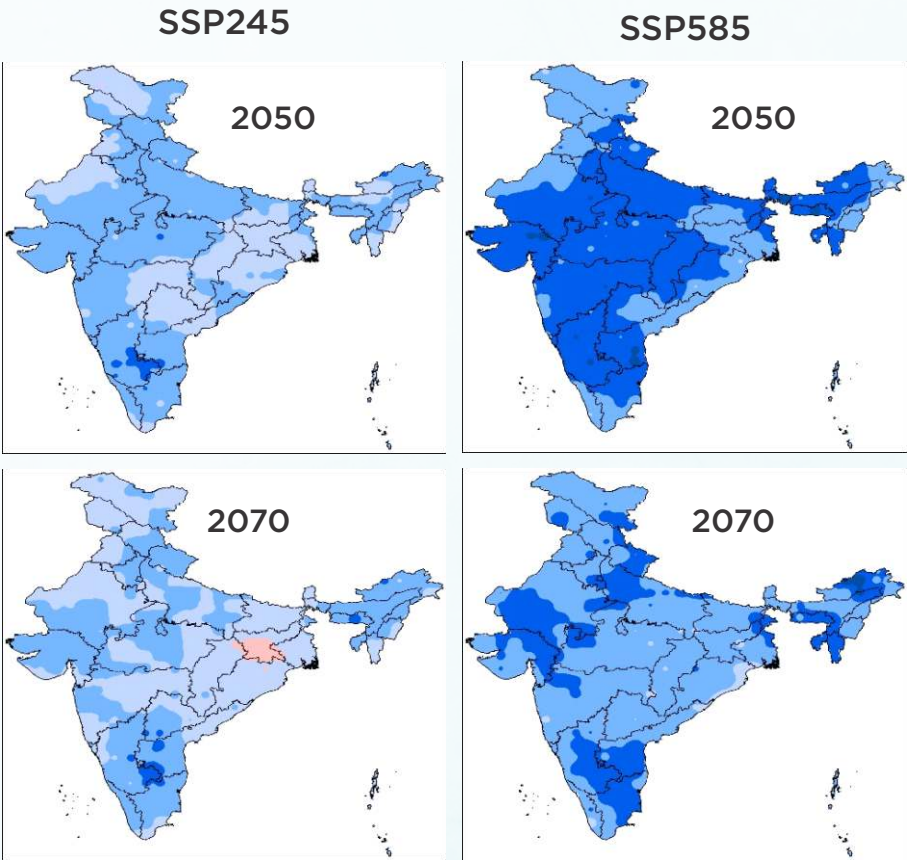
Impact of Central Government-funded Schemes on the Performance of State-owned Power Distribution Companies

Munawwara Zubair

Gulati Institute of Finance and Taxation, Kerala
(Affiliated to CUSAT)

Snapshot from the analysis of power generation potential of major operational and planned solar PV plants in India

Comparison of approved cost and loan / grant disbursed under the R-APDRP and IPDS Schemes



The PSR Programme has empowered future energy leaders by bridging academic research with real-world policymaking, driving impactful regulatory research relevant to the Indian power sector.





ABOUT
CER

Centre for Energy Regulation

The first-of-its-kind regulatory-academia-industry platform

The Centre for Energy Regulation (CER) was established in 2018 at the Department of Management Sciences, IIT Kanpur, with support from the UK Government's PSR Programme as an autonomous research institution.

Since inception, CER has played a crucial role in strengthening India's regulatory ecosystem through a range of initiatives:

Regulatory Research

Demand-driven research shaping policy and regulations through global collaborations



Knowledge-base

Monitoring framework and database for Indian power market, focusing on collection, preservation, and analysis of data to generate actionable insights



Regulatory Certification Programme (RCP)

Certification programme covering the operational, economic, legal and regulatory aspects of the power sector



Institutional Capacity Building

International study tours, regulatory research camps, regulatory conclaves, and capacity-building programmes for government representatives in the UK, Australia, and France



Technical Reports and Periodicals

Technical reports and quarterly periodicals on key sectoral developments





About UK PACT

UK PACT (Partnering for Accelerated Climate Transitions) is a flagship programme under the UK's International Climate Finance (ICF) portfolio. The programme is jointly governed and funded by the Foreign, Commonwealth and Development Office (FCDO) and the Department for Energy Security and Net Zero (DESNZ). The UK is committed to tackling climate change and is investing £11.6bn via ICF over the five years to March 2026.

UK PACT delivers impact through a combination of funding longer-term capacity-building projects and the rapid mobilisation of expertise. UK PACT funds projects which support partner countries to implement and increase their ambitions for carbon emissions reductions in line with their Nationally Determined Contributions (NDCs).

All UK PACT projects work to accelerate partner countries' transition to low carbon development. UK PACT delivers capacity-building activities through strategically managed Funds. Our delivery model creates opportunities for synergies, knowledge sharing and learning between projects.

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