

# SHAPING AN AFFORDABLE, RELIABLE, AND ACCOUNTABLE POWER SECTOR IN UTTAR PRADESH

#UPPOWER

In the recent integrated ratings exercise for state DISCOMs conducted independently by the Power Finance Corporation (PFC), four out of five utilities of Uttar Pradesh were ranked between 35 and 39, out of the 41 utilities evaluated.

With more than 1.4 crore households yet to be electrified, the impending load – technical, financial, administrative, and managerial – on the state's DISCOMs is of mammoth proportions. The systems, as they exist, have not delivered desired outcomes either for the DISCOMs in terms of financial and operational performance capability, or for the consumers in terms of clean, adequate, reliable, and affordable supply.

Enabling a utility to deliver on its mandate and adapt to the dynamics of the power sector requires careful collaboration among various actors – the DISCOM management, its employees, the regulatory commission, consumers, civil society, and the private sector engaged in the power sector.

The Council on Energy, Environment and Water (CEEW), one of India's leading not-for-profit policy research institutions, with researchers based in Delhi and Lucknow, aims to closely support the state's power sector reforms, through its independent research and its ability to convene key stakeholders on sustainability concerns.

**₹30,000** CRORE  
**combined losses  
of electricity utilities  
in UP. Highest in India  
in FY'16**

Source: PFC 2017

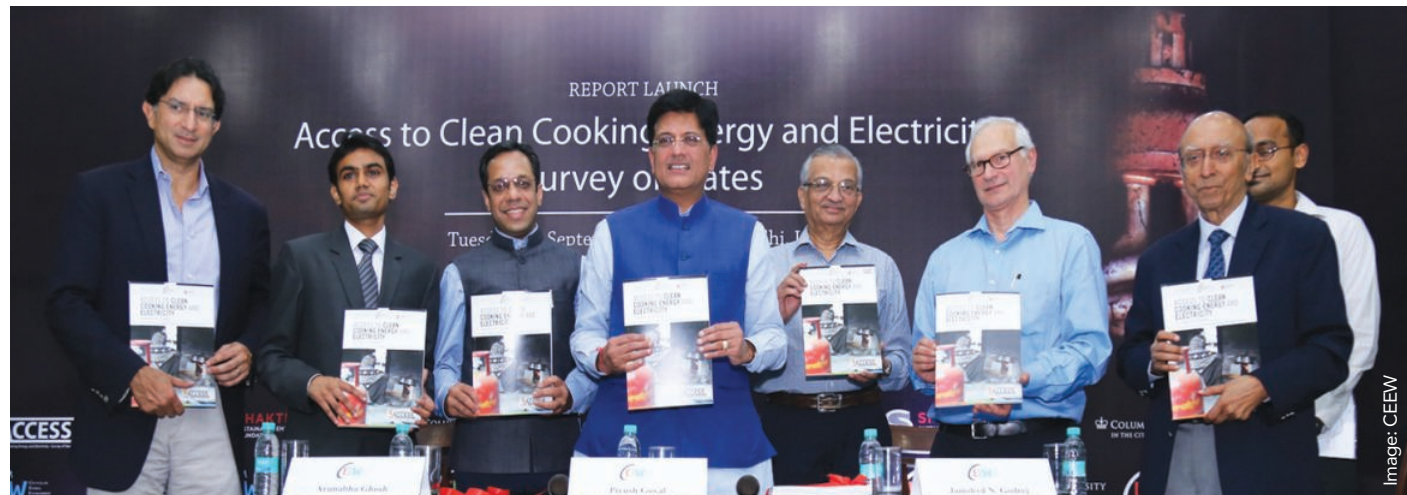
**524** kWh  
**per capita electricity  
consumption in Uttar Pradesh  
compared to 1075kWh for India as of  
FY'16**

Source: 'Power for All' Roadmap for UP

Image: Pixabay



# THE COUNCIL'S PAST RESEARCH IN UTTAR PRADESH



“CEEW’s ACCESS study provides a holistic approach to analyse the deep distress to rural India due to poor electricity access and could be the handbook for all future discussion on this topic...”

**Shri Piyush Goyal, Hon’ble Minister of Railways, Coal and Finance**  
releasing the ACCESS study in 2015

## 24x7 POWER FOR ALL IN UTTAR PRADESH

POLICY BRIEF | 2017

18 Districts | 3,000 Households

In 2015, CEEW, in collaboration with Columbia University, conducted the Access to Clean Cooking Energy and Electricity - Survey of States (ACCESS). This, till date, is India’s largest energy-access survey covering over 8,500 rural households across six most energy - deprived states, Uttar Pradesh being the largest of them. Later in 2018, we will publish UP-specific findings from the second round of the ACCESS survey, which is underway.

**19%** of the households don't pay their electricity bills in Uttar Pradesh

Source: ACCESS Study, 2015

**75%** of the electrified households receive electricity for less than 12 hours a day

Source: ACCESS Study, 2015

## THE COUNCIL'S POWER SECTOR PUBLICATIONS

## ADOPTING SOLAR FOR IRRIGATION: FARMER'S PERSPECTIVES FROM UTTAR PRADESH

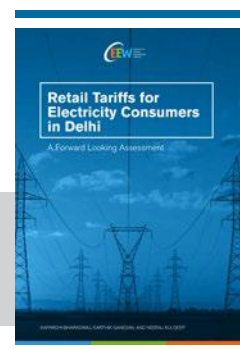
REPORT | 2018

10 Districts | 160 Villages | 1,600 Farmers

In 2017, The Council, supported by the Shakti Sustainable Energy Foundation, conducted a primary survey of 1,600 farmers to understand irrigation challenges in the state and their perceptions on the solar-powered irrigation pumps deployed state-wide. The study was released by Shri Amitabh Kant, CEO, NITI Aayog, in January 2018.



POLICY BRIEF | DEC 2014



REPORT | MAR 2017

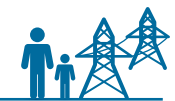
# SUPPORTING POWER SECTOR REFORMS IN UTTAR PRADESH



Image: Abhishek Jain / CEEW

The Council envisions that by 2022, the financial performance of DISCOMs will no more be the primary focus of policymakers when addressing power sector challenges. At the heart of these efforts will be the designing of a collaboration strategy to help bridge the gap between consumers, DISCOMs and regulators, to create an environment conducive for reform. We are doing this by addressing three core issues in the state's power sector.

### Creating a responsive consumer base



To inform policymakers on consumers' views, on their role and that of the DISCOM, in shaping a healthy power system, we are surveying urban and rural households to assess electricity usage and needs, societal drivers of theft and non-payment, and willingness to pay for legal electricity supply.

### Enabling Institutional Reforms in DISCOMs



To provide policy recommendations on improving governance and accountability within DISCOMs, our researchers will assess capacity needs and address barriers to change across DISCOMs (management and the employee base), study the power dynamics and the existing incentive structures within the institutions, and highlight best practices to drive change from within.

### Restructuring Power Procurement and Retail Tariffs Structure



To improve revenue realisation of DISCOMs and design cost-effective procurement strategies, we will, by engaging with the utilities, UPERC, and consumer groups, estimate the state's power requirements for the coming years and evaluate existing Purchasing Power Agreements (PPAs) with the UP Power Corporation Limited (UPPCL).



POLICY BRIEF | SEP 2017



REPORT | OCT 2017



POLICY BRIEF | NOV 2017



UPCOMING POLICY BRIEF



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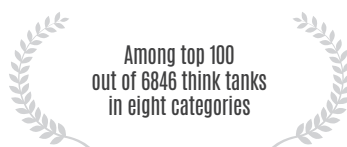
Former Deputy Chairman,  
Planning Commission,  
Government of India

The **Council on Energy, Environment and Water (CEEW)**  
is one of South Asia's leading not-for-profit policy research institutions.  
The Council uses data, integrated analysis, and outreach to explain –  
and change – the use, reuse, and misuse of resources.



Ranked the best in South Asia  
with annual operating budgets  
of less than USD 5 million  
five years in a row

**GLOBAL GO TO THINK TANK INDEX  
- 2017 -**



Among top 100  
out of 6846 think tanks  
in eight categories

**GLOBAL GO TO THINK TANK INDEX  
- 2017 -**



Ranked 2<sup>nd</sup> in India,  
4<sup>th</sup> outside Europe and North America,  
and 20<sup>th</sup> globally out of  
240 think tanks

**ICCG CLIMATE THINK TANK'S  
STANDARD RANKINGS  
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#### LUCKNOW

504 A, Riviera Blues Fortuna Apartments  
New Hyderabad, Lucknow  
Uttar Pradesh - 226007  
Phone: +91 (0)522 4230180

#### NEW DELHI

Sanskrit Bhawan  
A-10, Qutab Institutional Area  
Aruna Asaf Ali Marg, New Delhi - 110067  
Phone: +91 (0)11 4073 3300

info@ceew.in | ceew.in | @CEEWindia

## OUR POWER SECTOR TEAM FOR UTTAR PRADESH



**PRATEEK AGGARWAL**

Programme Associate  
prateek.aggarwal@ceew.in

Prateek has been working in the power sector for four years. He was a Consultant with UP Electricity Regulatory Commission primarily involved in policy advocacy, tariff modelling, renewables, DBT modelling, power purchase review, power trading, and engaging with DISCOMs and other ERCs. He has a B.Tech and an M.B.A. in Power/Energy from the University of Petroleum and Energy Studies, Dehradun.



**KANIKA BALANI**

Research Analyst  
kanika.balani@ceew.in

Kanika's experience of over two years in the sector includes an impact assessment of regulatory interventions in Uttar Pradesh and an on-field exploratory study on the regulation of electricity theft with IIT-Kanpur. She has a B.A. in Political Science and an M.A. in Regulatory Governance from TISS, Mumbai.



**KAPARDHI BHARADWAJ**

Programme Associate  
kapardhi.bharadwaj@ceew.in

Kapardhi has been involved in state-level tariff determination for Odisha and Gujarat, working on tariffs for biomass and hydro-power. He has four years of experience in the power sector. He has a B.E. in Mechanical Engineering and an M.B.A. in Power Management from the University of Petroleum and Energy Studies, Dehradun.



**KARTHIK GANESAN**

Research Fellow  
karthik.ganesan@ceew.in

Karthik has over six years of experience in analysing energy and macroeconomic policies. His current work is on cost-effective power generation options for DISCOMs, understanding environmental impacts of power generation, and the role of energy efficiency in industrial production. He has a B.Tech. and an M.Tech. in Civil Engineering from IIT Madras and a Master's in Public Policy from NUS, Singapore.