

**MINUTES OF THE 78<sup>TH</sup> MEETING**  
**OF**  
**FORUM OF REGULATORS (FOR)**

**Venue: Conference Hall, Hotel Vivanta, Kolkata  
Sunderbans, West Bengal**

**Date: 3<sup>rd</sup> to 5<sup>th</sup> March, 2022**

Chairperson, CERC & FOR welcomed all the members to the 78<sup>th</sup> meeting of FOR. He thanked Chairperson, WBERC for hosting the FOR meeting and making excellent arrangements. He welcomed Shri Khose Sale, who has taken over as Chairperson of Nagaland SERC. The list of participants is at **Appendix-I**.

2. Chairperson, WBERC welcomed all the members of the FOR and thanked for the opportunity to host FOR meeting in Kolkata and Sunderbans. Thereafter, Shri Durgadas Goswami, Member, WBERC made the presentation (**Annexure-1**) on the West Bengal power sector and key regulatory initiatives taken by WBERC. He also detailed some of the challenges faced such as difficulty in granting approval of investment by State Generating Stations due to non-availability of benchmark cost, implementation of universal RPO in view of limited RE resource in the State and high ROE in Generation/Transmission sector and treatment of depreciation. WBERC highlighted the need for a dedicated group for tracking and analysing emerging technologies and related policies implications.

3. After discussion, the Forum decided to constitute a Standing Committee for analysing emerging technologies and required policies implications. It was agreed that the Committee may take the assistance of consultants and place periodic reports for discussion in the Forum.

4. Thereafter, the agenda items were taken up for discussion.

**AGENDA ITEM NO 1: CONFIRMATION OF THE MINUTES OF THE 77TH FOR MEETING HELD ON 17<sup>th</sup> DECEMBER, 2021**

5. Deputy Chief (RA), CERC updated the members on the action taken on the minutes of the meeting of the 77<sup>th</sup> FOR meeting held on 17<sup>th</sup> December, 2021. The Forum noted and approved the minutes.

**AGENDA ITEM NO 2: FOR MODEL TARIFF REGULATIONS – REFERENCE FROM MINISTRY OF POWER**

6. The Forum in its 76<sup>th</sup> meeting held 1<sup>st</sup> October, 2021 had decided in the context of distribution tariff processes and norms that “*Model Guidelines may be drafted by FOR Secretariat*”. FOR Secretariat, based on this mandate, examined the issues. Since FOR had already evolved a Model Tariff Regulations on distribution tariff, it was felt that it would be adequate if the said Model Tariff Regulations are updated. Accordingly, the updated draft Model Tariff Regulations were circulated by the FOR Secretariat for comments of SERCs. Some SERCs had sent their comments. While discussing the draft, the FOR agreed that distribution tariff determination is within the exclusive jurisdiction of SERCs and the Model Tariff Regulations may at best be for guidance. It was agreed that it is the sole discretion of SERCs to follow the Model Tariff Regulations or otherwise. After a detailed discussion, it was decided that further detailed deliberations are required on many of the suggested provisions and therefore, it was agreed that the draft Model Tariff Regulations circulated need to be examined deeply by all the SERCs/ JERCs. It was decided that after receiving detailed comments from SERCs/JERCs, the draft Model Tariff Regulations can be discussed in subsequent meeting of FOR.

**AGENDA ITEM NO 3: REFERENCES FROM CER, IIT KANPUR**

***a) Regulatory tracker tool – Launch***

7. Representative of CER, IIT Kanpur informed that the Regulatory tracker tool has been developed under the Government of India - Government of UK initiative under the DFID

program and presented the salient features of tool (**Annexure-II**) and updated the Forum on the various types of information (both national and State level) available on this tool which can be accessed using a search option. Thereafter, Chairperson, FOR/CERC launched the tool.

***b) MOU between FOR and CER, IIT Kanpur***

8. This agenda item could not be taken up due to paucity of time. This would be discussed in the next meeting.

**AGENDA ITEM NO 4: IMPLEMENTATION OF AGC IN THE GENERATING STATIONS OF THE STATES**

9. The Forum was briefed on the decision of CERC to mandate ISGS to be AGC enabled. CERC has suggested that the generating stations of the State may also be AGC enabled. As more and more RE based power plants are coming up, CERC felt that it is necessary to address the issue of reserves and more generating stations would be required to participate in providing Ancillary services. Chairperson, CERC stated that AGC enablement does not involve huge cost and is estimated to be in the range of Rs.30 to Rs.50 lakhs per generating station. CERC has ordered that expenditure incurred to comply with the directions mandating the ISGS to be AGC enabled may be claimed as per relevant regulations or provisions of the PPA. SERCs may like to take similar view in respect of intra-state generating stations in the interest of secure operation of the integrated grid.

10. The members of the Forum noted and unanimously agreed to the proposal to implement AGC in the State level thermal power plants.

**AGENDA ITEM NO. 5: REFERENCES FROM USAID/USEA**

***a) Technical assistance to the FOR under USAID 's new South Asia Regional energy partnership (SAREP) Program"***

11. Dy Chief (RA), CERC apprised the Forum of the new SAREP program of USAID wherein USAID had volunteered to support the Technical Committee and Working Groups of FOR by way of technical assistance. This would be under the larger umbrella of the cooperation between Government of India and Government of USA. The support to FOR under the SAREP program would be on wide ranging subjects which include Resource adequacy, Reserves and Ancillary mechanism, regulatory framework on energy storage and electric vehicles, REC mechanism, new technologies such as green hydrogen etc.

12. Chief (RA), CERC further apprised that similar support was already extended by USAID in the past to the FOR under the Greening the Grid program, which was also under the Government of India and Government of USA initiative. The proposed assistance under the five(5) year SAREP program would also be of similar nature, namely, supporting the Standing Technical Committee and the Working Groups through consultants engaged by USAID, who would be funded under the program and working under the guidance of the Working Groups / Technical Committees and the final deliverables would be as per approval of the Working Groups/FOR.

13. After discussion, the Forum approved the proposal.

***b) Study tour***

14. The Forum was apprised of the proposal received from USAID wherein USAID has proposed a study tour for 12 participants from June 3<sup>rd</sup> to 12<sup>th</sup>, 2022 (including travel days) which would include meetings and ESS site visits in Brussels and Norway. As a part of the study tour, USAID would cover the expenditures with respect to cost for visa, travel insurance, stay, transport within Europe, local transportation and will also provide per diem to cover food and other incidentals. However, costs with respect to international travel of the participants (i.e India-Europe-India leg) would have to be borne by FOR.

15. After discussion, the Forum agreed to the proposal and directed FOR Secretariat as under:

- a) Convey acceptance to the proposal of USAID for the first batch of 12 participants.
- b) Inform USAID to also explore feasibility for another batch of 12 participants before the end of the financial year 2022-23.
- c) The Air travel costs for the Delhi-Europe-Delhi sector will be reimbursed based on actuals for one (1) participant (Chairperson/Member) per SERC, subject to the cheapest available economy class airfare in the shortest route as on the date of issuance of the letter from the FOR Secretariat.
- d) The first batch may be decided by FOR Chairperson and preference will be given to those who have not attended any training program supported by FOR.

**AGENDA ITEM NO. 6: ACCOUNTS RELATED ITEM- WRITING OFF TDS REFUND FOR THE ASSESSMENT YEAR 2012-13**

16. Deputy Chief (RA), CERC apprised the Forum that in the absence of exemption certificate to FOR from Income tax, FOR secretariat was unable to obtain refund of Rs.4,83,006/- for the assessment year 2012-13. Hence, it was proposed to write off the income tax refund from the books of account for the FY 2021-22.

17. The Forum deliberated on the issue and opined that as FOR does not have any exemption from the IT authorities, there is no possibility of obtaining the refund and therefore, the amount may be written off. Accordingly, the resolution in this regard was approved.

**AGENDA ITEM NO. 7: RECOMMENDATIONS OF THE FOIR WORKING GROUP ON “CROSS SECTOR COLLABORATIVE REGULATIONS BETWEEN TELECOM REGULATOR AND ELECTRICITY REGULATORS**

18. Dy Chief (RA), CERC apprised the Forum of the recommendations of the FOIR Working Group wherein TRAI had requested the need of sharing infrastructure of the State Discoms for installing the necessary infrastructure such as laying the optical fiber for rolling out 5G technology. Chairperson, CERC informed the Forum that TRAI and CERC would be working together for developing a policy framework for infrastructure sharing and incentivizing such

sharing. He suggested that SERCs may also take initiative to facilitate sharing of infrastructure of Discoms for rolling out 5G.

19. The Forum deliberated on this issue and noted the same.

#### **AGENDA ITEM NO. 8: CAPACITY BUILDING PROGRAM ON FINANCIAL DERIVATIVES**

20. The Forum was informed that based on the positive response received from all ERCs on the series of six (6) sessions of webinars organized by the FOR secretariat with assistance from USAID on financial derivatives in January 2022, FOR Secretariat is now in the process of curating a 2-hour brain storming session on Financial Derivatives for the benefit of officials of State Discoms and all ERCs. This session is tentatively scheduled on the 23<sup>rd</sup> March 2022 and will have a presentation by Prof Ajay Pandey of IIM, Ahmedabad followed by open house discussion.

21. The Forum appreciated the initiative and assured participation from ERCs.

#### **AGENDA ITEM NO 9: Any other Item - BUDGET FOR OUTSTATION FOR MEETINGS**

22. The Forum was apprised that whenever meeting of FOR is held outside the headquarters of the SERC/JERC, the host ERC incurs higher expenditure in making arrangements for meeting and other logistic arrangements. After discussion, the members observed that the FOR support limit of Rs.8 lacs irrespective of whether the meeting is held in the headquarters of the SERC/JERC or outside needs review.

23. The Forum deliberated on this issue and agreed that 70% of the total costs may be reimbursed by FOR. This decision would apply to the FOR meetings held in Lucknow on 17<sup>th</sup> and 18<sup>th</sup> December, 2021 as well in Kolkata/ Sunderbans during 3<sup>rd</sup> to 5<sup>th</sup> March, 2022. The FOR Secretariat was also directed to incorporate the same into the FOR budget for the next financial year.

## **CONCLUSION**

24. Secretary, CERC/FOR thanked all the members of the Forum for participating in the meeting. He also thanked the officials of the FOR Secretariat for coordinating and organizing the meeting. Special thanks were conveyed to the Commission and officers of WBERC for their painstaking efforts in organizing the meeting in Kolkata and Sundarbans.

25. Chairperson, FOR/CERC brought to the notice of the Forum that the tenure of Shri Sanoj Kumar Jha, Secretary, FOR/CERC was coming to an end and thanked him for lending his support to various activities of FOR.

26. It was also decided that the next meeting of the FOR would be held in April 2022 in New Delhi

The meeting ended with a vote of thanks to the Chair.

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**LIST OF PARTICIPANTS OF THE 78<sup>TH</sup> MEETING**

**OF**

**FORUM OF REGULATORS**

**HELD DURING 03<sup>RD</sup> - 05<sup>TH</sup> MARCH, 2022.**

<b>S. No.</b>	<b>NAME</b>	<b>ERC</b>
01.	Shri P.K. Pujari Chairperson	CERC / FOR – in Chair.
02.	Justice (Shri) C.V. Nagarjuna Reddy Chairperson	APERC
03.	Shri Kumar Sanjay Krishna Chairperson	AERC
04.	Shri Shishir Sinha Chairperson	BERC
05.	Shri Hemant Verma Chairperson	CSERC
06.	Justice (Shri) Shabihul Hasnain ‘Shastri’ Chairperson	DERC
07.	Shri D.K.Sharma Chairperson	HPERC
08.	Shri Preman Dinaraj Chairperson	KSERC
09.	Shri S.P.S. Parihar Chairperson	MPERC
10.	Shri Sanjay Kumar Chairperson	MERC
11.	Shri P. W. Ingty Chairperson	MSERC
12.	Shri Khose Sale Chairperson-cum-Member	NERC
13.	Shri Viswajeet Khanna Chairperson	PSERC
14.	Dr. B.N. Sharma Chairperson	RERC
15.	Shri K.B. Kunwar Chairperson	SSERC
16.	Shri M. Chandrasekar Chairperson	TNERC



17.	Shri T. Sriranga Rao Chairperson	TSERC
18.	Shri D. Radhakrishna Chairperson	TERC
19.	Shri Raj Pratap Singh Chairperson	UPERC
20.	Shri Sutirtha Bhattacharya Chairperson	WBERC
21.	Shri H.M. Manjunatha Member (Legal)/Acting Chairperson	KERC
22.	Shri D.P. Gairola Member (Law)/Chairperson I/c.	UERC
23.	Shri Mehul M. Gandhi Member	GERC
24.	Ms. Jyoti Prasad Member (Law)	JERC (for State of Goa & UTs)
25.	Shri Sanoj Kumar Jha Secretary	FOR/CERC
26.	Dr. Sushanta K. Chatterjee Chief (RA)	CERC
<b>SPECIAL INVITEES</b>		
27.	Shri Indu Shekhar Jha Member	CERC
28.	Shri Arun Goyal Member	CERC
29.	Shri Pravas Kumar Singh Member	CERC
30.	Shri Durgadas Goswami Member	WBERC
31.	Shri Pulak Kumar Tewari Member	WBERC
<b>OTHERS</b>		
32.	Ms. Rashmi Somasekharan Nair Dy. Chief (RA)	CERC
33.	Dr. Anoop Singh	CER, IIT, Kanpur



Annexure-I



# West Bengal Electricity Regulatory Commission

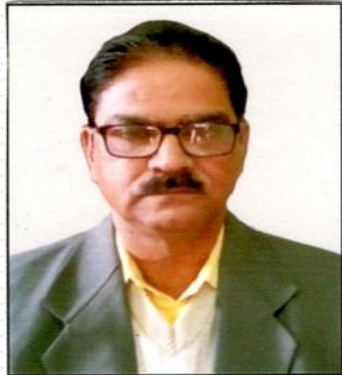
Welcomes Chairperson & Members of FOR  
to  
78<sup>th</sup> Meeting of Forum of Regulators  
Hotel Vivanta, Kolkata

03<sup>rd</sup> March 2022

# About WBERC

- WBERC was constituted u/s 17 (1) of the ERC Act, 1998 (14 of 1998) vide State Government Notification dated 06.01.1999.
- The Present Commission

MEMBER



Shri Pulak Kumar Tewari,  
WBHJS (Retd.)  
Since 01.10.2019 (AN)

CHAIRPERSON



Shri Sutirtha Bhattacharya,  
IAS (Retd.)  
Since 05.03.2019 (AN)

MEMBER



Shri Durgadas Goswami,  
IAS (Retd.)  
Since 10.10.2017 (AN)

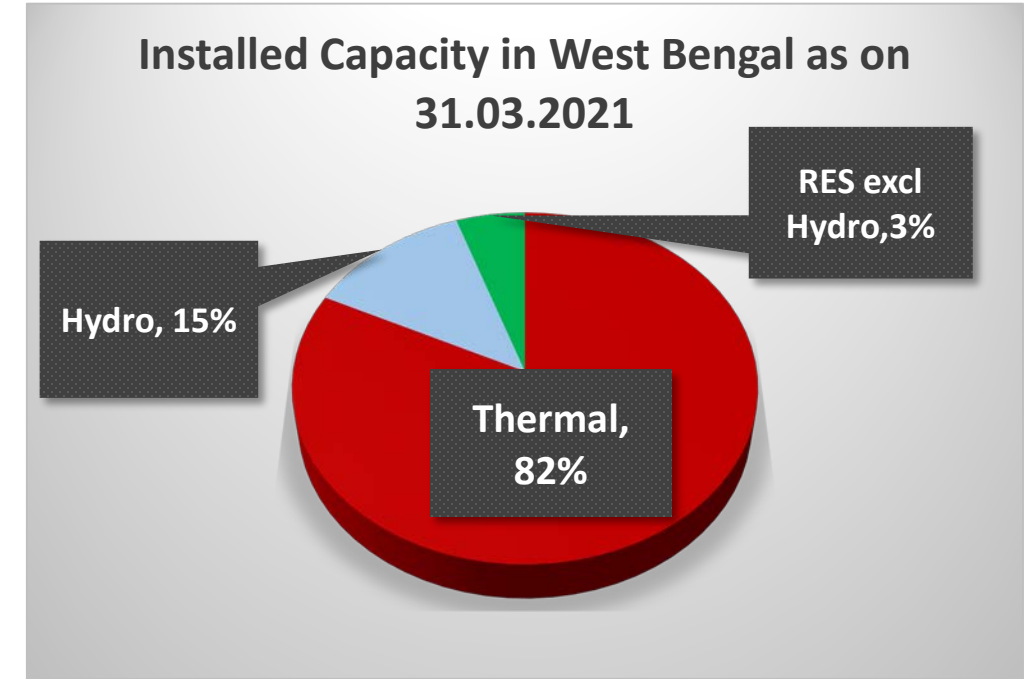


# WEST BENGAL POWER SECTOR AT A GLANCE

## GENERATION

### Installed Capacity in MW

<b>Thermal</b>	WBPDCCL TPS	4745
	DPL TPS	550
	HEL TPS	600
	HMEL TPS	300
	CESC TPS	885
	IPCL TPS	12
<b>Hydel</b>	WBSEDCL Hydro	87
	Purulia PSP	900
	Teesta LDP -III & IV	292
<b>Small &amp; Mini Hydel</b>		90
<b>Solar</b>		138
<b>TOTAL</b>		8599



### Plant Load Factor of TPS in 2020 - 21

WBPDCCL	DPL	HEL	HMEL	CESC
57.44%	57.87 %	80.38%	16.50%	71.10%

Source: Data submitted by utilities



# WEST BENGAL POWER SECTOR AT A GLANCE

## TRANSMISSION

WBSETCL being the State Transmission Utility (STU) manages:

- 142 EHV substations (66 kV level to 400 kV)
- 14734 ckm EHV Transmission lines  
(including 400 kV, 220 kV, 132 kV & 66 kV)

### Transmission Loss and Availability in 2020 - 21

WBSETCL	
Transmission Loss	Availability
3.40% (Normative)	99.84%



# WEST BENGAL POWER SECTOR AT A GLANCE

## DISTRIBUTION

❑ Total 2.33 Crores Consumers in the State catered by 4 DISCOMs

WBSEDCL : 200.62 Lakhs

IPCL : 4105

CESC : 33.29 Lakhs

DVC : 127

❑ Power Position in 2020 – 21:

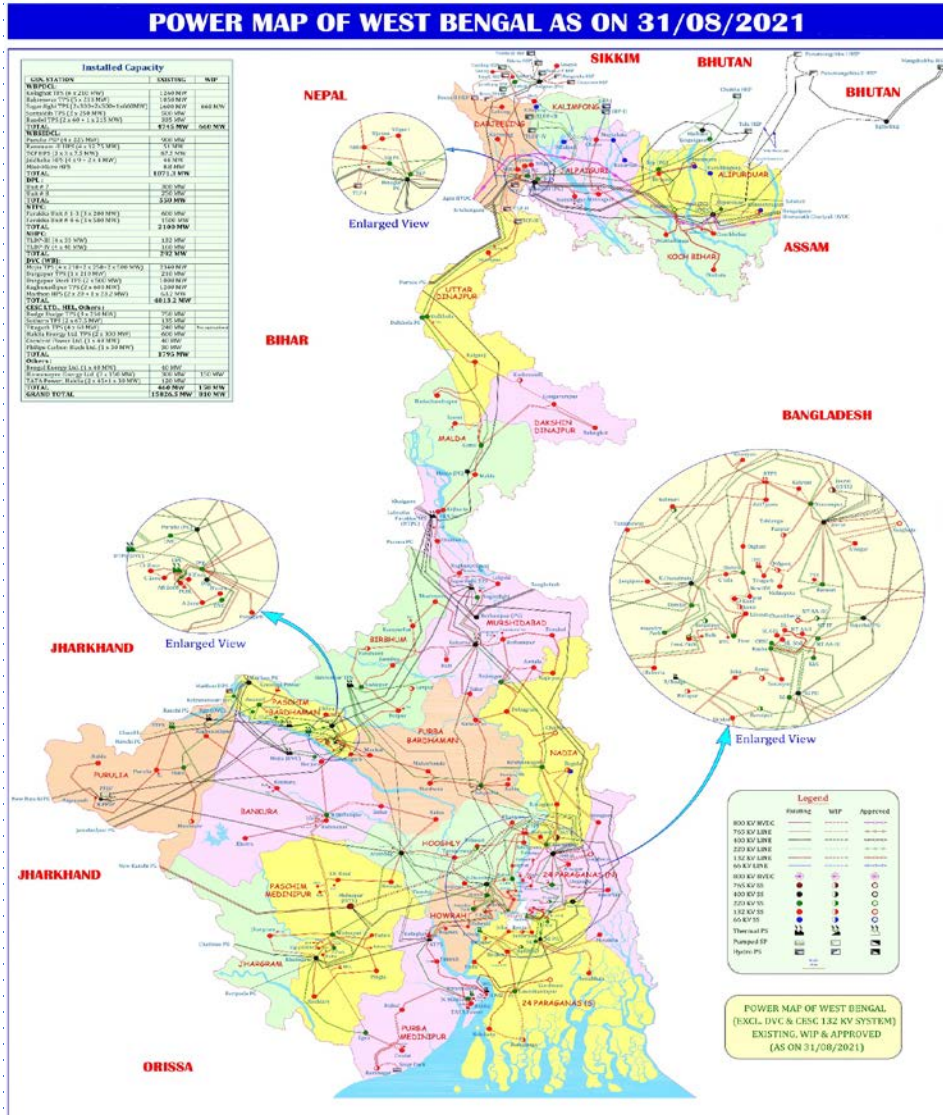
Peak Demand : 8846 MW

Total Energy Supplied : 51543 MU

### AT&C Loss in last 4 years

WBSEDCL	CESC	IPCL	DVC
2017 – 18 : 27.35%	2017 – 18 : 10.10%	2017 – 18 : 3.19%	2017 – 18 : 10.49%
2018 – 19 : 23.23%	2018 – 19 : 9.30%	2018 – 19 : 3.45%	2018 – 19 : 8.59%
2019 – 20 : 20.92%	2019 – 20 : 9.10%	2019 – 20 : 3.17%	2019 – 20 : 8.34%
2020 – 21 : 21.35%	2020 – 21 : 8.90%	2020 – 21 : 3.53%	2020 – 21 : 2.20%

# WEST BENGAL POWER SECTOR AT A GLANCE



- 100 % metering has been completed
- Multiple license area :  
  - Damodar Valley Area (DVC – WBSEDCL)
  - Asansol – Raniganj Belt (WBSEDCL –DVC – IPCL)
- Single-part Tariff introduced for EV Charging Station
- Captive coal mining started by WBPDCL, CESC and DPL



# MAJOR REGULATORY INITIATIVES

Notification No	Regulations issued	Major issues
63/WBERC (14.11.2019)	SOP 3 <sup>rd</sup> Amendment, 2019	<ul style="list-style-type: none"><li>- online application processing with tracking mechanism</li><li>- Limited documents requirements</li><li>- Self certification for below notified voltage</li></ul>
65/WBERC (21.01.2020)	Tariff Regulations 3 <sup>rd</sup> Amendment, 2020	<ul style="list-style-type: none"><li>- Computing heat value of coal based on 'as received GCV' less 120 kCal/kg</li><li>- Provisions for input price from integrated coal mines</li><li>- Agricultural consumers are exempted from LPSC upto 3 months</li><li>- Specific regulatory provisions for digital payments</li></ul>
67/WBERC (25.02.2020)	Recovery of Expenditure 1 <sup>st</sup> Amendment, 2020	<ul style="list-style-type: none"><li>- Distribution licensees shall fix rate of service connection in terms of Rs./kVA or Rs./kW for load at least upto 150 kVA.</li></ul>





# MAJOR REGULATORY INITIATIVES

Notification No	Regulations issued	Major issues
69/WBERC (26.11.2021)	Balancing & Settlement Code Regulations 2021	- Fresh B&S code for accounting under ABT mechanism including DSM
71/WBERC (21.12.2020)	RE Regulations 1 <sup>st</sup> Amendment, 2020	<ul style="list-style-type: none"><li>- Revised RPO targets upto 2022-23</li><li>- RPO introduced for OA consumers and captive users above 1MW</li><li>- Net-metering for eligible consumers having CD upto 5 KW and rest are allowed under net-billing. (All agricultural consumers allowed under net-metering)</li></ul>
73/WBERC (26.11.2021)	Deviation Settlement Mechanism Regulations 2021	- Fresh Regulations for intra-state DSM in line with CERC Regulations with state specific margins.

Presently under review: (i) Open Access Regulations, (ii) State Electricity Grid Code & (iii) Tariff Regulations

# RPO target by WBERC

- Revised RPO targets vide 1<sup>st</sup> Amendment of RE

Year	2020-21	2021-22	2022-23
Solar RPO	3%	4.5%	6%
Non-solar RPO	9%	10%	11%

- Broadly all licensees have fallen short in achievement
- However they have taken steps in procuring long term RE power through SECI/ Green Exchange for meeting of RPO



# Issues/ Challenges Faced



## Capital Expenditure for installation of FGD

- Timelines issued by MoEFCC on 31.03.2021 for compliance with the emission norms
- CEA to review its Guidelines/ Advice on FGD Cost and Technology (Letter dated 24.02.2021)
- Difficulty in approval of investment by State Generating Stations due to non availability of benchmark cost

## Excess power availability with the State DISCOMs – treatment of fixed cost

## Difficulties faced by States like West Bengal due to universal RPO in view of limited RE resource in the State

## Revision of ROE rates of Generation/ Transmission sector and depreciation – need for model regulations

## Dedicated group in FOR for looking at emerging technologies, related policies and implications.



THANK YOU



# Launch Ceremony CER's Regulatory Tracker



## Centre for Energy Regulation

Department of Industrial and Management Engineering  
Indian Institute of Technology Kanpur

[cer.iitk.ac.in](http://cer.iitk.ac.in)

[eal.iitk.ac.in](http://eal.iitk.ac.in)

## Centre for Energy Regulation (CER)

- An endeavour towards institutional strengthening in the Indian power sector.
- Actively engaged in education, research, capacity building, consulting, and policy advisory related to power sector.
- Seed funded by the UK Government until March 2022.



# Research, Knowledge Base and Capacity Building

## Regulatory Research

Regulatory  
Research Camp  
(RRCs)

Regulatory Research  
Network (RRN)

## Regulatory Knowledge Base

Regulatory  
Database

Online Learning  
Environment & Tools  
(OLET)

## Institutional Capacity Building

International  
Capacity Building  
(ICB)

Regulator / Expert in  
Residence  
(RiR/EiR)

# Centre for Energy Regulation – Contributions to Regulatory and Policymaking Process

Issue 04 Volume 02 April, 2020

## REGULATORY INSIGHTS

**Regulatory Outlook**

**Editorial**

**ERC Tracker**

**CER News**

Founder & Co-ordinator, Centre for Energy Regulation

Issue 03 Volume 02 January, 2020

## REGULATORY INSIGHTS

**Regulatory Outlook**

**Editorial**

**ERC Tracker**

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Aggregate Revenue Requirement

Total Power Purchase Cost

O&M Expenses

Interest & Finance Charges

ARR ACDS RE Tariff Test

CSERC Standard of Performance Electricity Regulation, 2020

WBERC's Draft for Amendment to Cogeneration and Generation of Electricity from Renewable Sources of Energy Regulations

Fundamentals of Renewable Energy: Economics, Policy and Regulation

Fundamentals of Power Sector Regulation

Power Market Economics and Operation

Fundamentals of Renewable Energy Economics, Policy and Regulation

Aggregate Revenue Requirement

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Fundamentals of Power Sector Regulation

Power Market Economics and Operation

Fundamentals of Renewable Energy Economics, Policy and Regulation

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CER's Regulatory Blog

Distribution > Standard of Performance

**CSERC Standard of Performance Electricity Regulation, 2020**

Highlights -

- The Standard of Performance (SoP) regulation issued by CS across DISCOMs. A summary is below:
  - If the licensee fails to maintain SoP, it is liable to compensate a guaranteed standards of performance at local offices.
  - To spread awareness regarding SoP among consumers a guaranteed standards of performance at local offices.
  - The licensee is to submit quarterly report on the level of p and the amount paid/payable in each case to the commission.

**CER Opinion -**

- A SoP index can be developed based on key performance implementing a penalty/incentive framework for the assosat
- Given that DISCOMs would manage a system of communication (SMS/email) to the consumers.
- The commission may periodically review the current level

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CER's Regulatory Blog

Fundamentals of Renewable Energy: Economics, Policy and Regulation > RE Policy and Regulation

2020-07-06 15:17:30

**WBERC's Draft for Amendment to Cogeneration and Generation of Electricity from Renewable Sources of Energy Regulations**

Keywords: Renewable Energy, Cogeneration, Net-metering, Solar Rooftop, RPO Regulations, RPO Targets, West Bengal, Solar REC, Non-solar REC

Highlights -

The WBERC notified draft for the amendment to Cogeneration and Generation of Electricity from Renewable Sources of Energy Regulations, 2013. Highlights are below:

- Consumer can install rooftop system of 1 kW or above capacity (up to total sanctioned load or contract demand) can claim net-metering/net-billing benefits.
- DISCOMs are proposed to procure 100% of energy from waste to energy plants in their respective areas
- Unmet solar RPO obligation above the 85% of total RPO can be met by non-solar energy, and vice-versa

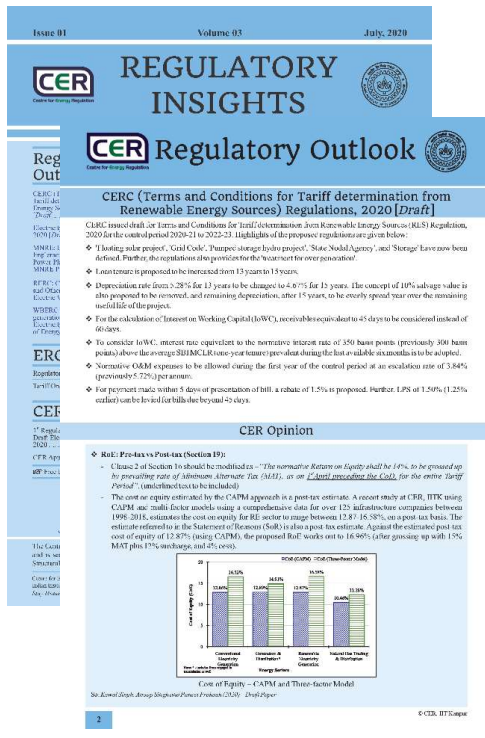
**CER Opinion -**

- RPO trajectory for the state should be specified in advance so as to provide opportunity to obligated entities to make appropriate investments or plan to procure RE/REC.
- In case the tariff for RE has been discovered under section 63 of EA, 2003 and has been adopted by the commission, the same should not be subjected to the price cap under regulation 6.0.
- An RPO compliance framework, supported with penalty in proportion to the shortfall, would help ensure that obligated entities take adequate steps to meet their RPO



# CER Activities – Policy and Regulatory Analysis

## CER NEWSLETTER



Issue 01 Volume 03 July, 2020

### REGULATORY INSIGHTS

#### CER Regulatory Outlook

**CERC (Terms and Conditions for Tariff determination from Renewable Energy Sources) Regulations, 2020 [Draft]**

CERC issued draft for Terms and Conditions for Tariff determination from Renewable Energy Sources (RES) Regulation, 2020 for the control period 2020-21 to 2022-23. Highlights of the proposed regulations are given below:

- ♦ 'Floating solar project', 'Grid Code', 'Pumped storage hydro project', 'State Nodal Agency', and 'Storage' have now been defined. Further, the regulations also provide for the 'no curtailment for power generation'.
- ♦ Loan tenure is proposed to be increased from 13 years to 15 years.
- ♦ Depreciation rate from 28% for 13 years to be changed to 42% for 15 years. The concept of 10% salvage value is also proposed to be removed, and remaining depreciation, after 15 years, to be evenly spread over the remaining useful life of the project.
- ♦ For the calculation of 'Investment in Working Capital (IWC)', receivables equivalent to 45 days to be considered instead of 60 days.
- ♦ To consider IWC, interest rate equivalent to the normative interest rate of 350 basis points (precisely 350 basis points) above the average SBI MCLR (same year tenure prevalent during the last available six months) to be adopted.
- ♦ Normative O&M expenses to be allowed during the first year of the control period at an escalation rate of 3.84% (precisely 3.7% per annum).
- ♦ For payment made within 5 days of presentation of bill, a rebate of 1.25% is proposed. Further, LPS of 1.25% (1.25% order) can be levied for bills due beyond 45 days.

#### CER Opinion

♦ **RoE: Pre-tax vs Post-tax (Section 19):**

- Clause 2 of Section 19 should be modified as - "The normative Return on Equity shall be 14%, to be grossed up by the prevailing rate of Minimum Alternate Tax (MAT), as on 'Last preceding the Date for the entire Tariff Period' (underlined to be included).
- The cost of equity estimated by the CAPM approach in a post-tax estimate. A recent study at CER, IITK using CAPM and multi-factor models using a comprehensive data for over 125 Indian-listed companies between 1995-2018, estimates the cost of equity for RE sector to range between 12.87-16.58% on post-tax basis. The estimate referred to in the Statement of Reasons (SoR) is also a post-tax estimate. Against the estimate post-tax cost of equity of 13.87% using CAPM, the proposed RoE works out to 16.96% (after grossing up with 15% MAT plus 17% surcharge, and 4% cess).

**Cost of Equity – CAPM and Three-Factor Model**

See Annual Report Group Strategic Plan and Financials 2019-2020 - April 2020

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Issue 02 Volume 03 October, 2020

### REGULATORY INSIGHTS

#### CER News

#### 2<sup>nd</sup> Advisory Committee Meeting of 'Centre for Energy Regulation'

Centre for Energy Regulation (CER) organized the 2<sup>nd</sup> Advisory Committee Meeting (online) to present progress on CER's ongoing activities and future work plan on 17<sup>th</sup> July, 2020. The advisory committee meeting was attended by Mr. P. K. Pujari, Chairman, CER; Mr. Anand Kumar, Chairman, GER; Mr. Ghanshyam Prasad, Joint Secretary, Ministry of Power; Mr. Ush Mathur, Energy Advisor, PCDD; Mr. Vikas Gaba, Partner, KPMG; Dr. Anoop Singh, Professor, IIT Kanpur & Coordinator, CER; Dr. Subhankar Chatterjee, Chief (Regulatory Affairs), CER and Mr. Adithya Subbiah, Energy and Green Growth Analyst, PCDD participated as a special invitee. The agenda of the meeting comprised of developments on CER's Database Dashboards, Online Learning & Environment Tool (OLET), Regulatory Research and Outreach. The committee also deliberated on institutional sustainability of CER, and CER's response to COVID-19.

#### ERC Hub

IIT Kanpur, for Centre for Energy Regulation, has entered into a MoU with selected ERCA focusing on analysis of the key regulatory developments, thus placing a priority on engagement with these ERCA as per the MoU. A dedicated webpage of these ERCA, under the ERC hub, provides a snapshot of the power sector, and information on recent regulatory and policy developments in the respective states. ERC hub can be accessed through the link: [https://cer.iitk.ac.in/ERC\\_Hub](https://cer.iitk.ac.in/ERC_Hub)

We invite the readers to register at CER's web portal to access CER's publications and resource material. This would also help in design CER's activities and deliver a more relevant output by engaging with stakeholders. We also request your inputs on the newsletter and the activities of the Centre.

#### Regulatory Insights Team

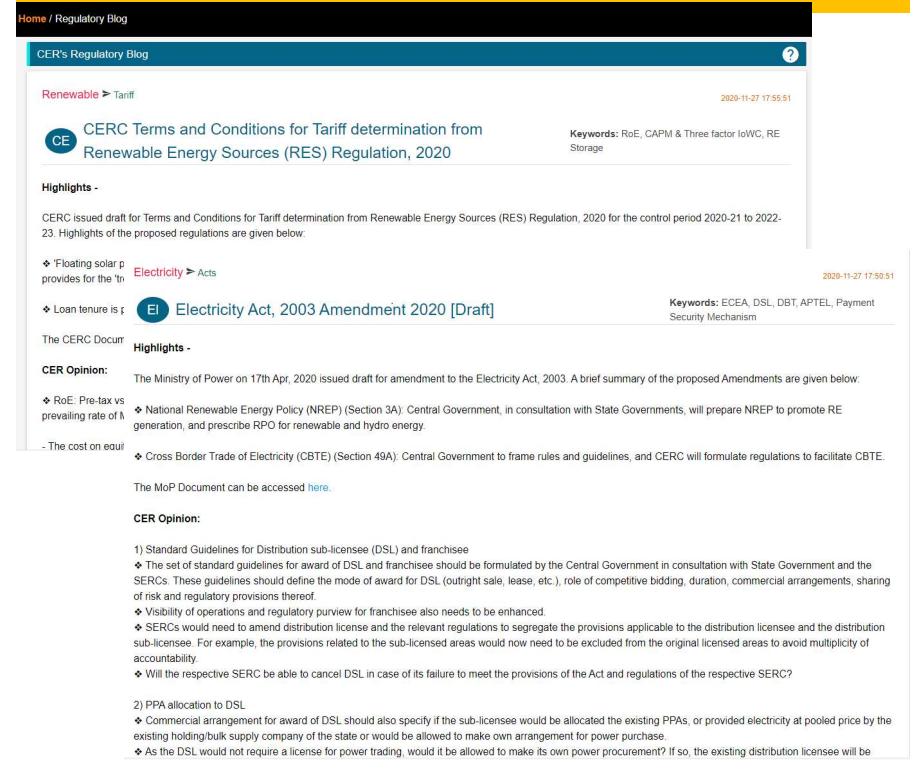
Disclaimer: The information contained herein is of general nature and not intended to constitute an offer or any part of the full offer of equity. Although we endeavor to provide accurate and reliable information, there can be no guarantee that the information is accurate or that it will continue to be accurate or relevant. We are not liable for any loss or damage arising from any reliance on the information contained herein. This material has been provided by the Government of India. However, the views expressed herein do not necessarily reflect the IIT Kanpur's official position.

Other Initiatives: IIT Kanpur, IMPINT, etc.

Contact us: Centre for Energy Regulation (CER), Department of Industrial and Management Engineering, Indian Institute of Technology Kanpur, Kanpur-208016. Phone: +91 522 291431. Email: cer@iitk.ac.in

16 © CER, IIT Kanpur

## REGULATORY BLOG



Home / Regulatory Blog

### CER's Regulatory Blog

Renewable > Tariff 2020-11-27 17:55:51

**CERC Terms and Conditions for Tariff determination from Renewable Energy Sources (RES) Regulation, 2020** Keywords: RoE, CAPM & Three factor IWC, RE Storage

**Highlights -**

CERC issued draft for Terms and Conditions for Tariff determination from Renewable Energy Sources (RES) Regulation, 2020 for the control period 2020-21 to 2022-23. Highlights of the proposed regulations are given below:

- ♦ Floating solar provides for the 'no curtailment for power generation'.
- ♦ Loan tenure is 15 years.
- ♦ Electricity Act, 2003 Amendment 2020 [Draft] Keywords: ECEA, DSL, DBT, APTEL, Payment Security Mechanism

The CERC Document **Highlights -**

**CER Opinion:** The Ministry of Power on 17th Apr, 2020 issued draft for amendment to the Electricity Act, 2003. A brief summary of the proposed Amendments are given below:

- ♦ RoE: Pre-tax vs prevailing rate of 14%.
- ♦ National Renewable Energy Policy (NREP) (Section 3A). Central Government, in consultation with State Governments, will prepare NREP to promote RE generation, and prescribe RPO for renewable and hydro energy.
- ♦ Cross Border Trade of Electricity (CBTE) (Section 49A). Central Government to frame rules and guidelines, and CER will formulate regulations to facilitate CBTE.

The MoP Document can be accessed here.

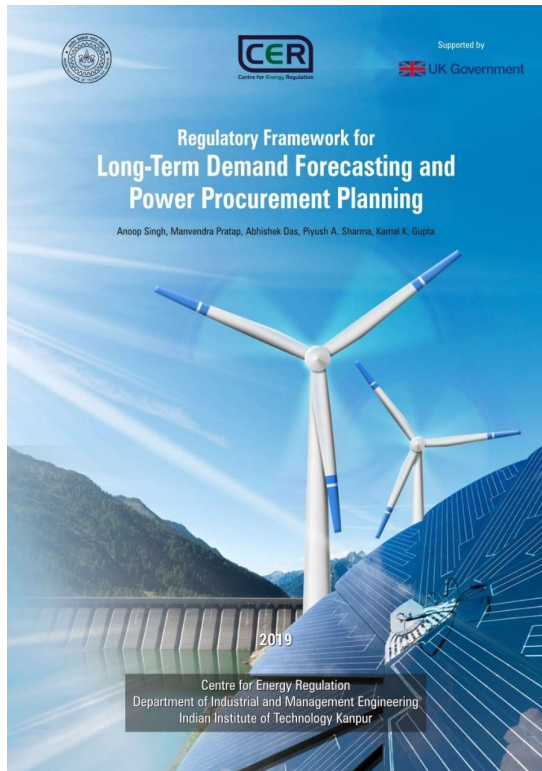
**CER Opinion:**

- 1) Standard Guidelines for Distribution sub-licensee (DSL) and franchisee
  - ♦ The set of standard guidelines for award of DSL and franchisee should be formulated by the Central Government in consultation with State Government and the SERCs. These guidelines should define the mode of award for DSL (outright sale, lease, etc.), role of competitive bidding, duration, commercial arrangements, sharing of risk and regulatory provisions thereof.
  - ♦ Visibility of operations and regulatory purview for franchisee also needs to be enhanced.
  - ♦ SERCs would need to amend distribution license and the relevant regulations to segregate the provisions applicable to the distribution licensee and the distribution sub-licensee. For example, the provisions related to the sub-licensed areas would now need to be excluded from the original licensed areas to avoid multiplicity of accountability.
  - ♦ Will the respective SERC be able to cancel DSL in case of its failure to meet the provisions of the Act and regulations of the respective SERC?
- 2) PPA allocation to DSL
  - ♦ Commercial arrangement for award of DSL should also specify if the sub-licensee would be allocated the existing PPAs, or provided electricity at pooled price by the existing holding/bulk supply company of the state or would be allowed to make own arrangement for power purchase.
  - ♦ As the DSL would not require a license for power trading, would it be allowed to make its own power procurement? If so, the existing distribution licensee will be

Link: <https://cer.iitk.ac.in/newsletter>

Link: <https://cer.iitk.ac.in/blog>

# Regulatory Framework for Long-term Demand Forecasting and Power Procurement Planning



conclude that some of the EPS had overestimated the demand for electricity. As shown in Figures 5 and 6 and Tables 2 and 3, the 18<sup>th</sup> EPS had significantly overestimated the electricity demand; actual demand growth was much lower than expected. Therefore, demand projections in the 19<sup>th</sup> EPS were accordingly reduced by over 25 percent based on a lower estimated demand growth. The forecasted values of demand in the 18<sup>th</sup> EPS were closer to the actual values during the initial years, but there were significant deviations in the subsequent years. Compound Average Growth Rate (CAGR) of the projected electrical energy requirement during 2010-11 to 2015-16 was 7.62 percent, whereas the actual CAGR for the same period was 5.28 percent. Moreover, the CAGR of peak demand for 2010-11 to 2015-16 was actually 4.63 percent against the predicted value of 8.50 percent.

Table 2: Comparison of electricity demand projections in 18<sup>th</sup> and 19<sup>th</sup> EPS Reports

Year	Peak Electricity Demand					
	Actual Demand (MW)	18 <sup>th</sup> EPS Projections (MW)	Overestimated Demand in 18 <sup>th</sup> EPS (MW)	19 <sup>th</sup> EPS Projections (MW)	Overestimated Demand in 19 <sup>th</sup> EPS (MW)	Difference between 18 <sup>th</sup> and 19 <sup>th</sup> EPS (MW)
(1)	(2)	(3)	(4) = (2) - (3)	(5)	(6) = (2) - (5)	(7) = (3) - (5)
2010-11	1,22,287	1,22,287	0			
2011-12	1,30,006	1,32,685	2,679			
2012-13	1,35,453	1,43,967	8,514			
2013-14	1,35,918	1,56,208	20,290			
2014-15	1,48,166	1,69,491	21,325			
2015-16	1,53,366	1,83,902	30,536			
2016-17	1,59,542	1,99,540	39,998	1,61,834	2,292	37,706
2017-18	1,64,066	2,14,093	50,027	1,76,897	12,831	37,196
2021-22		2,83,470		2,25,751		57,719
2026-27		4,00,705		2,98,774		1,01,931

Source: 18<sup>th</sup> and 19<sup>th</sup> Electric Power Survey of India, CEA [4-5]

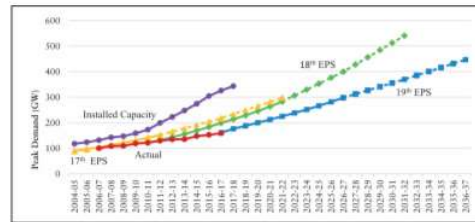


Figure 5: Historical projections of annual peak electricity demand (all India)

Source: 17<sup>th</sup>, 18<sup>th</sup> and 19<sup>th</sup> Electric Power Survey of India, CEA [3-5]; Load Generation Balance Reports (LGBR), CEA [6-15]

## Recommendations

Based on the projected electricity demand, power procurement portfolio till 2026-27 was recommended for the realistic scenarios, considering policy targets for RE and DSM, under two scenarios - with and without short-term power procurement - as represented in Figures 26 and 27 respectively.



Figure 26: Realistic Growth - Policy Target (with Short-term Power Procurement)



Figure 27: Realistic Growth - Policy Target (without Short-term Power Procurement)

A number of alternate strategies included floating the candidate plants to minimise the overall private and social costs. Based on the findings of the study, estimating significantly higher economic benefits for the full-float optimal procurement strategy, it was suggested that the distribution utilities should undertake such an exercise more frequently.

ISBN 978-93-5321-969-7

# Regulatory Research – Working with ERCs and Other Power Sector Stakeholders

- 1<sup>st</sup> Regulatory Research Camp, “Regulatory Framework for Long-term Demand Forecasting and Power Procurement Planning”, 10-14 July 2018,
- 2<sup>nd</sup> Regulatory Research Camp, “Regulatory Framework for Distribution ARR and Tariff Determination”, 26-30 June, 2019



# International Capacity Building Programs

- CER – FSR Symposium, on “**Future of Utilities: International and Indian Perspectives**”, 10-11 Oct. 2018
- International Capacity Building Program – ‘**Learning from Regulatory Experiences and Market Development in Europe**’, 14-20 Oct. 2018, France and UK
- CER Symposium on “**Regulatory Framework for the Emerging Power Sector: European and Indian Perspectives**”, May 18-19, 2019



## Engaging and Working with ERCs and FOR

- **Capacity Building Programme For Officers of Electricity Regulatory Commissions for Officers of Electricity Regulatory Commissions (FOR funded) for the past 14 years**
- **Global Regulatory Perspectives Programme For Commissioners of Electricity Regulatory Commissions (FOR funded) for the past 3 years.**

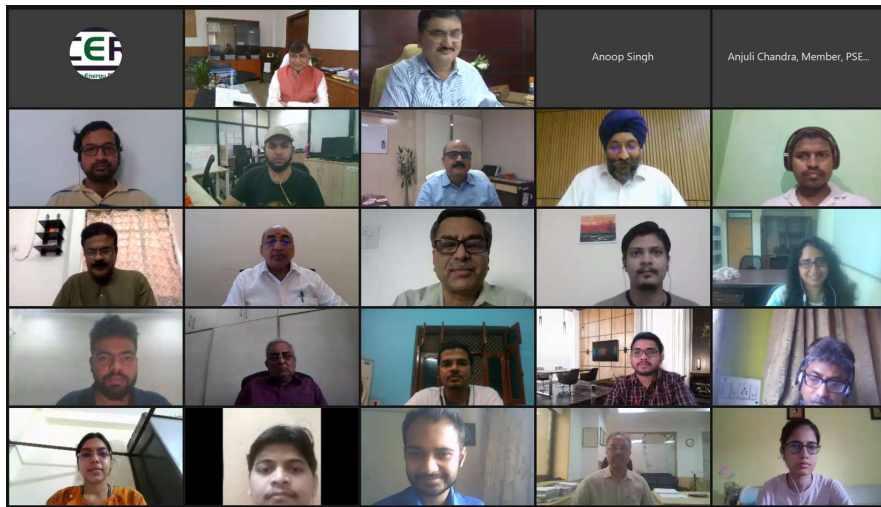


# Focussed Policy and Regulatory Outreach - Online

## REGULATORY CONCLAVE

“Draft Electricity (Amendment) Bill, 2020”,  
30<sup>th</sup> April, 2020

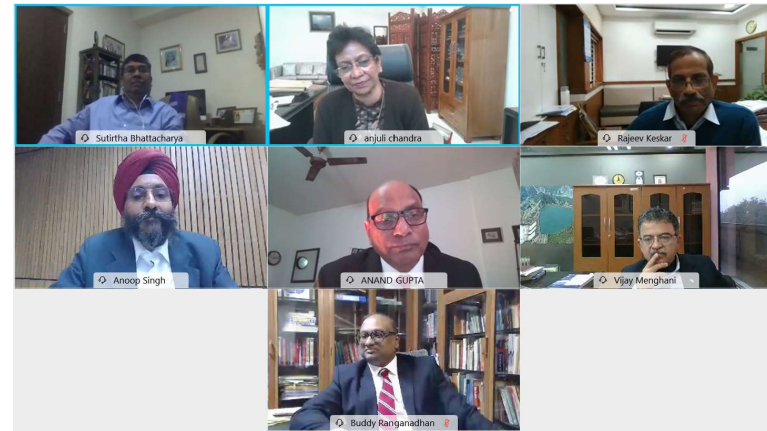
“Impact of COVID-19 on Electricity Supply  
Chain Regulatory and Policy Perspectives”, 8<sup>th</sup>  
July 2021



## REGULATORY MANTHAN

➤ “Developing a Multi-year Tariff (MYT)  
Framework: Insights and Discussion on the  
Draft Regulation of Gujarat and Chhattisgarh”,  
November 6, 2020

➤ “Relinquishment of Long-term CGS PPAs  
beyond Tenure: Impact on Generators,  
Discoms & Market”, January 8-9, 2021



# **Regulatory Certification Program**

# Regulatory Certification Program: Courses Offered

**Power Sector Regulation: Theory and Practice**



Fundamentals of Power Sector Regulation



Advance Topics on Power Sector Regulation

**Power Market Economics and Operation**



Economics of Power Markets



Power Procurement Planning and Strategy

**Renewable Energy: Economics, Policy and Regulation**



Fundamentals of Renewable Energy: Economics, Policy and Regulation

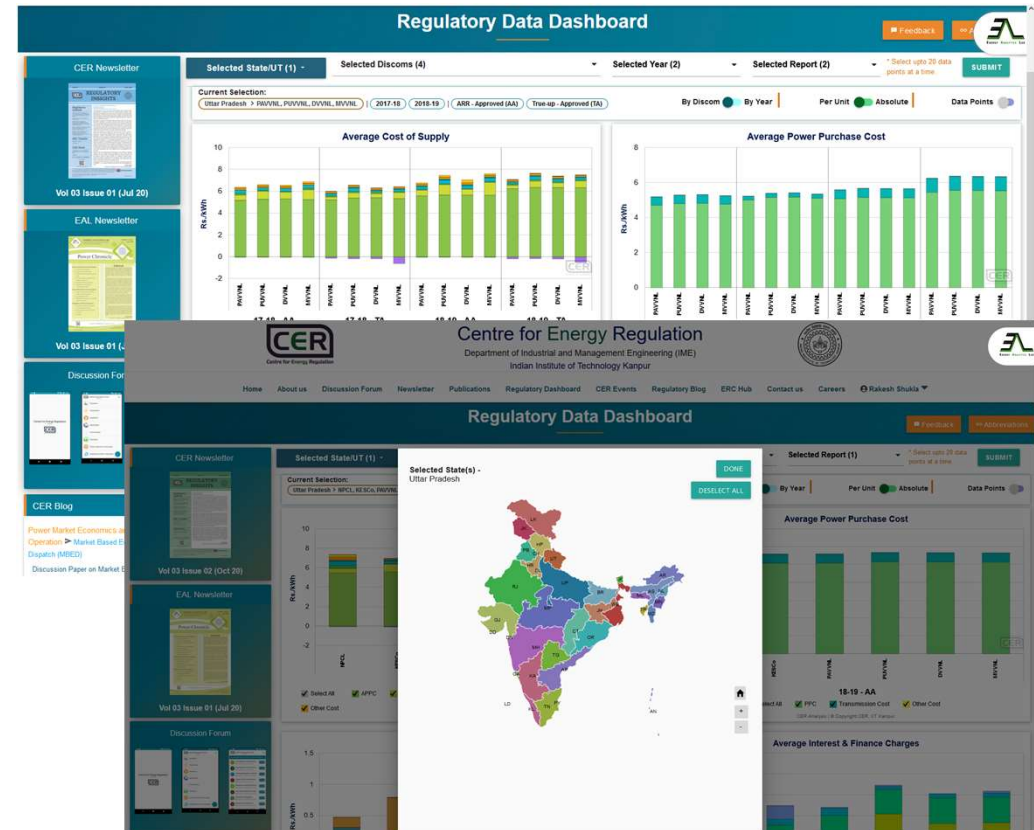


Advance Topics on Renewable Energy: Economics, Policy and Regulation



# CER's Regulatory Data Dashboard

- Provides insights into the regulatory process for tariff determination particularly in the distribution sector across various states over the years
- Visualizes the techno-commercial aspects associated with the regulated business across generation, transmission and distribution segment
- Enable user to compare ARR and True-up side by side across DISCOMs and years
- Provides a comparative framework for evaluating regulatory norms for tariff setting for generation transmission and distribution





# eMasters in Power Sector Regulation, Economics and Management



- A multi-disciplinary program, approved by Senate, IIT Kanpur.
- First such program in the country.
- Aims to provide conceptual and applied understanding of power sector regulation from economic and regulatory perspectives.
- Practitioners – 2-year experience
- Industry, academicians

**Department of Industrial and Management Engineering**  
Indian Institute of Technology Kanpur  
Kanpur - 208016

**eMasters in**  
“Power Sector Regulation, Economics and Management”

Department of Industrial and Management Engineering (IME) at IIT Kanpur has made several successful strides towards policy/regulatory research, teaching, advisory and consultancy across time. The **eMasters in Power Sector Regulation, Economics and Management** is a multi-disciplinary program, approved by Senate, IIT Kanpur. It aims to provide conceptual understanding of power sector regulation from economic and regulatory perspectives. Apart from faculty from relevant departments of IIT Kanpur, the sessions for the program would be contributed by leading national and international experts. The program would be conducted under the aegis of Office of Digital Learning, IIT Kanpur as per the approved rules and guidelines.

**Relevance**

- Detailed perspective of power sector with regulation building on fundamental economic principles
- Focus on development of insights on electricity markets in India
- Exploration of national and international best practices of regulatory process
- Address the present and emerging challenges related to regulatory framework in the power sector
- Provide better understanding of regulatory process from engineering, economics, legal and environmental perspectives

**Outcomes**

- Conceptual understanding of power sector regulation from economic, legal, environment and regulatory perspective
- Opportunity to learn best practices from leading industry experts
- Develop the ability to understand the emerging policy and regulatory issues in the power sector
- Opportunity to learn best practices from global experts

**Template**

Quarter 1	Quarter 2	Quarter 3	Quarter 4
Fundamentals of Economics, Accounting and Finance	Multi-year Tariff (MYT) Framework for Generation, Transmission & Distribution	Designing Retail Electricity Tariff	Power Sector Regulation: Emerging Issues and International Perspective
Power Sector Reform and Regulation: Economic Principles and Evolution	Competition and Power Market Development	Power Procurement: Principles and Practice	Smart Grid Technologies and Implementation
Power System Operation and Ancillary Services	Renewable Energy Development Policy, Regulation and Market	Project	Project (Contd.)

**Curriculum**

Curriculum Design: Course structure is designed considering various backgrounds such as Economics, Accounts, Finance, Power System Design and Data Analysis. It not only covers theoretical concepts but more pragmatic too. More approach towards case study analysis is given importance

**Pedagogy**

- Recorded Sessions
- Live Interactions
- Project

**Instructors and Supervisors**

- Faculty members of IIT Kanpur from Department of IME, Electrical Engineering, Economics
- Leading industry experts and noted academicians at national and international level

**Admissions**

Potential target audience for the program includes officials from Electricity Regulatory Commissions, Generating Companies, Licensees (Transmission, Distribution, and Trading), Financial Institutions, Consultants, Investors and other stakeholders those interested in this area. Further details about minimum qualification, admission criteria, application process and course fee structure would be available at the website of the Department of IME/Office of Digital Learning, IIT Kanpur.

**Key Topics**

- Indian Power Sector – Structure and Reforms
- Electricity Act, 2003,
- National Electricity Policy and Tariff Policy
- Economics of Regulation
- Theories of Regulation
- Pricing and Regulation of Natural Monopoly
- Fundamentals of Accounting and Finance
- Tariff Determination for Generation, Transmission, Distribution and Renewable Energy
- Multi-year Tariff Framework
- Competition in Power Sector
- Operation of Power Exchanges
- Retail Competition
- Distribution Sector Reforms
- Retail Tariff Design
- Power System Operation
- Indian Electricity Grid Code
- Ancillary Services
- Congestion Management
- Demand Response and Demand Side Management
- Market Based Economic Dispatch
- Power Procurement Planning
- RE Policy and Regulation
- Efficiency Measurement and Benchmarking
- Smart Grid: Regulation and Implementation
- Market for REC and ESCert
- Consumer Rights, Grievance Redressal and Ombudsman

Follow all updates and further information about this program through following links

Department of Industrial and Management Engineering, Indian Institute of Technology Kanpur-208016  
[www.iitk.ac.in/ime/](http://www.iitk.ac.in/ime/)

Office of Digital Learning, IIT Kanpur, Indian Institute of Technology Kanpur-208016  
<https://elearn.iitk.ac.in>

<https://emasters.iitk.ac.in/powersector>

# **Energy Analytics Lab**

# Energy Analytics Lab

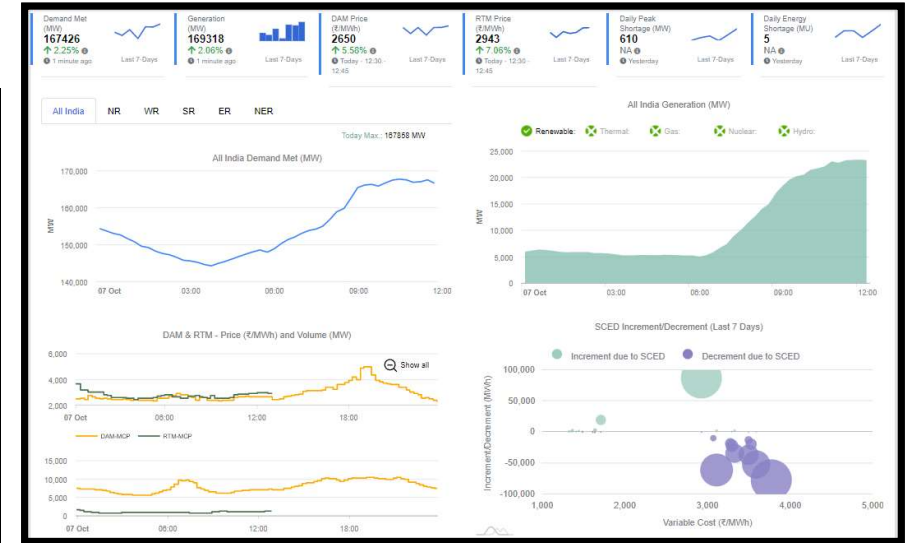
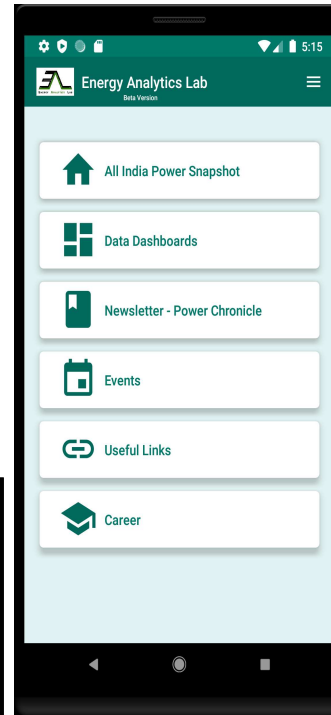
EAL Newsletter

EAL Web Portal

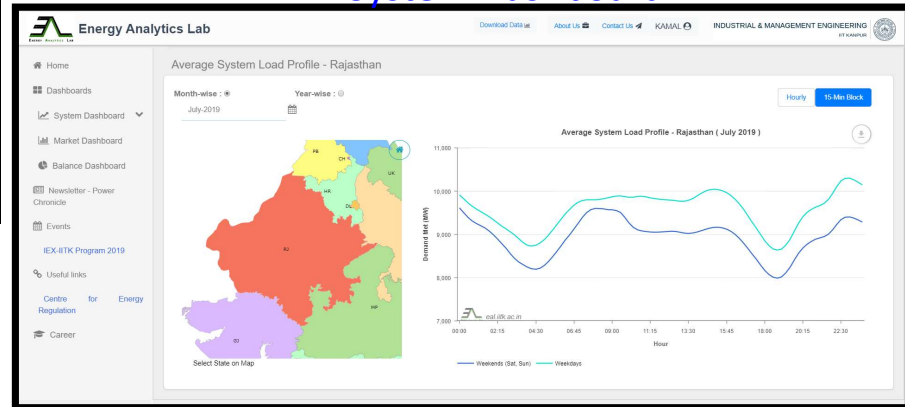
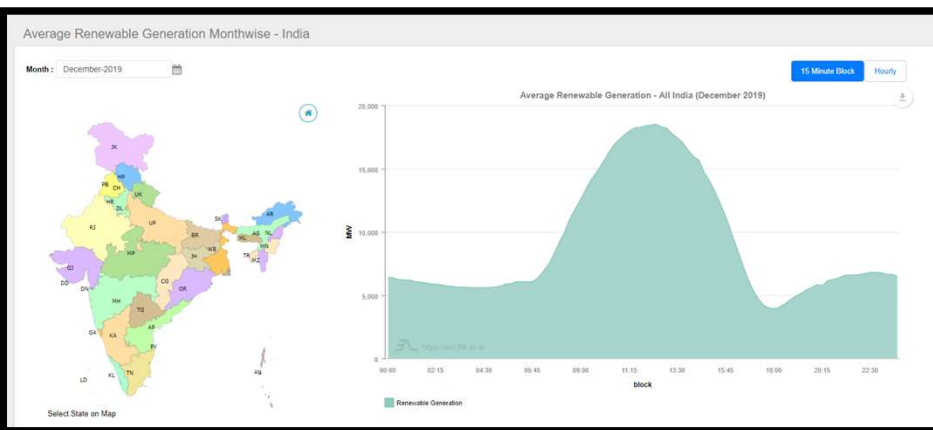
EAL APP



RE Dashboard



System Dashboard



# **CER's Regulatory Tracker**

# Regulatory Tracker

An electronic platform that digitally stores documents and enable users to access all types of regulatory documents namely Regulations, Policies & Guidelines, Rules, Tariff Orders, etc., issued by various power sector authorities, at one place.

## Objectives:

- To create repository of regulatory and policy documents on a single platform.
- Track timeline of documents through their various versions (amendments, addendum, corrigendum etc).
- To facilitate stakeholders in accessing any regulatory documents in the quickest possible time.

# Regulatory Tracker

- Contains documents relevant to the power sector
- Single platform to access documents issued by the power sector policy making and regulatory authorities
- Covers documents issued in the last 10 years and aims to cover all such documents
- Tree structure to ensure proper linkage between the original and subsequent versions
- Amendments, revisions, etc., of the documents can also be retrieved in a sequential and orderly manner
- Scope: CERC, SERCs and MoP (partial coverage of MNRE, POSOCO, CEA and other organisations)

# Document Categorisation

Fields	Description
<b>Domain</b>	Content based classification/Sort the documents into different groups based on their content. Ex. Generation, Distribution, Renewable, Power Purchase Agreement, Transmission, EV, Consumer, etc.
<b>Document Category</b>	Documents are organized under the following categories: Legislation, Order, Petition, Regulation, Report, Rules, Staff/Consultation/Discussion Paper, etc.
<b>Document Type</b>	It contains the type of documents. Ex. Drafts, Amendments, Circulars, Notifications, True-Up, Resolutions, Daily orders etc.
<b>ERC/Ministry/other entities</b>	State ERCs, MoP, CERC, MNRE, POSOCO, CEA, etc.



# Regulatory Tracker: Coverage & Features


## Coverage

- Gazette/Other Notifications
- General Orders/Policies/Guidelines, etc.
- Draft Regulations/Orders, etc.
- Miscellaneous Orders
- Petitions
- True-Up Petitions/Orders
- Daily Orders
- Circulars
- Addendum
- Amendments
- Corrigendum/Erratum
- Resolutions



## Feature

- Documents Indexing & Classification
- Web/Mobile based Access
- User Dashboard
- Simple User Interface
- Security & Access Control
- Search & Retrieval
- PDF Download
- Document Sharing

# Regulatory Tracker: Snapshot



**Centre for Energy Regulation**  
Department of Industrial and Management Engineering (IME)  
Indian Institute of Technology Kanpur

Development Portal
Home
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Newsletter
Publications
Regulatory Database
CER Gallery
Contact us
Careers
Abhay Awasthi

Total Documents : 3640
Search

State/ERC/Utility

Year Of Issue/Order

Domain

Document Category

Document Type

Applicable Year

**Current Selection:**

Petition No. 772 of 2011


BEFORE  
THE UTTAR PRADESH ELECTRICITY REGULATORY COMMISSION  
LUCKNOW

Date of Order : 7.4.2011

IN THE MATTER OF: Approval of Power Purchase Agreement (PPA) for supply of 10.0 MW Power.

BETWEEN

Chief Engineer (PPA),  
Power Purchase Agreement Directorate,  
U.P. Power Corporation Ltd.,  
14th Floor, Shakti Bhawan Extension.



**UPERC**  
8-Aug-2011

Power Purchase Agreement Order

General Orders

UPERC U.P. Power Corporation Ltd., (through its CMD) 14-Ashok Marg, Lucknow Approval of Power Purchase Agreement (PPA) for purchase of 5 MW power from baggase based co-generating plant.

Petition No. 945/2014


BEFORE  
THE UTTAR PRADESH ELECTRICITY REGULATORY COMMISSION,  
LUCKNOW

IN THE MATTER OF: Extension of Applicability of Regulatory Surcharge

And

IN THE MATTER OF:

- Uttar Pradesh Power Corporation Ltd. (UPPCL), Shakti Bhawan, 14 - Ashok Marg, Lucknow - 226001.
- Madhyanchal Vidyut Vitran Nigam Ltd. (MVVNL), 4A - Gokhale Marg, Lucknow - 226001.
- Purnanchal Vidyut Vitran Nigam Ltd. (PVVNL), Bhikampur, 112 Kx Sub-Station, Purnanchal Vidyut Bhawan, P.O. Diesel Locomotive Works, Varanasi - 221004.
- ...



**UPERC**  
6-Jun-2014

Others

Petition

General Orders

UPERC Uttar Pradesh Power Corporation Ltd. (UPPCL), Shakti Bhawan, 14 - Ashok Marg, Lucknow - 226001.

Petition No. 412/2009

BEFORE THE UTTAR PRADESH ELECTRICITY REGULATORY COMMISSION

IN THE MATTER OF: Extension of permission for tapping of 132 Kv Gonda-Manikpur line for Kundanbati unit.

AND

IN THE MATTER OF: M/s Rajee Hindusthan Sugar and Industries Ltd. (RHSL) Ltd. - Kundanbati, Dist- Gonda


Local Office: B-2/356, Vishal Khandi,  
Gomti Nagar,  
Lucknow.

Petitioner

Vs

The Chief Engineer-PPA,  
U.P. Power Corporation Ltd.,  
14th Floor, Shakti Bhawan Extension,  
14, Ashok Marg,  
Lucknow.

Respondent



**UPERC**  
23-Oct-2013

Others

Order

General Orders

UPERC Review of the Mechanism for Fuel & Power Purchase Cost Adjustment formulated by the Hon'ble Commission.

24

# Regulatory Tracker: Organisations Covered

- ❖ APERC
- ❖ APERC
- ❖ AERC
- ❖ BERG
- ❖ CEA
- ❖ CERC
- ❖ CSERC
- ❖ DERC
- ❖ FOR
- ❖ GERC
- ❖ HERC
- ❖ HPERC
- ❖ JERC (Goa & UTs)
- ❖ JERC (M&M)
- ❖ JKSERG
- ❖ KERG
- ❖ KSERC
- ❖ MPERC
- ❖ MERC
- ❖ MSERC
- ❖ MNRE
- ❖ MoP
- ❖ NERC
- ❖ OERC
- ❖ POSOCO
- ❖ PSERC
- ❖ RERC
- ❖ SSERC
- ❖ TNERC
- ❖ TERC
- ❖ UPERC
- ❖ UERC
- ❖ WBERC

# **Regulatory Tracker – A Walkthrough**

## How to Search/Select a Document

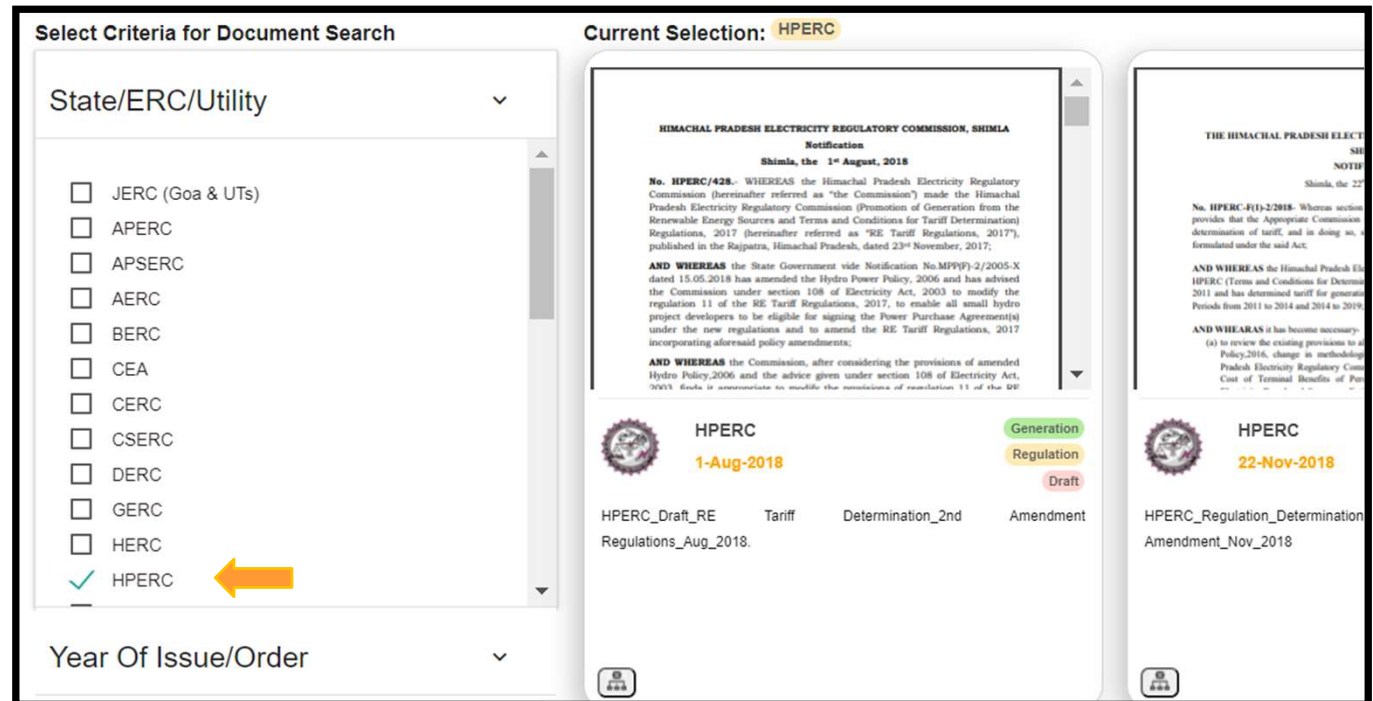
- ERC/Ministry/Organisation
- Domain
- Type of Document
- Year of Issue
- Year of Applicability
- Keyword Search
- Search Through Tree Structure

# Himachal Pradesh Electricity Regulatory Commission

## “HPERC\_Draft\_Generation\_Regulation\_2018”

➤ Steps to track above document:

### Step 1: Select HPERC



Select Criteria for Document Search

Current Selection: **HPERC**

State/ERC/Utility

- JERC (Goa & UTs)
- APERC
- APSERC
- AERC
- BERC
- CEA
- CERC
- CSERC
- DERC
- GERC
- HERC
- HPERC

Year Of Issue/Order

HIMACHAL PRADESH ELECTRICITY REGULATORY COMMISSION, SHIMLA  
Notification  
Shimla, the 1<sup>st</sup> August, 2018

No. HPERC/428- WHEREAS the Himachal Pradesh Electricity Regulatory Commission (hereinafter referred as "the Commission") made the Himachal Pradesh Electricity Regulatory Commission (Promotion of Generation from the Renewable Energy Sources and Terms and Conditions for Tariff Determination) Regulations, 2017 (hereinafter referred as "RE Tariff Regulations, 2017"), published in the Rajjstra, Himachal Pradesh, dated 23<sup>rd</sup> November, 2017;

AND WHEREAS the State Government vide Notification No.MPP(P)-2/2005-X dated 13.05.2018 has amended the Hydro Power Policy, 2006 and has advised the Commission under section 108 of Electricity Act, 2003 to modify the regulation 11 of the RE Tariff Regulations, 2017, to enable all small hydro project developers to be eligible for signing the Power Purchase Agreement(s) under the new regulations and to amend the RE Tariff Regulations, 2017 incorporating aforesaid policy amendments;

AND WHEREAS the Commission, after considering the provisions of amended Hydro Policy,2006 and the advice given under section 108 of Electricity Act, 2003 finds it appropriate to modify the provisions of regulation 11 of the RE Tariff Regulations, 2017 to enable all small hydro project developers to be eligible for signing the Power Purchase Agreement(s) under the new regulations and to amend the RE Tariff Regulations, 2017 incorporating aforesaid policy amendments;

HPERC  
1-Aug-2018

Generation  
Regulation  
Draft

HPERC  
22-Nov-2018

HPERC\_Draft\_RE Tariff Determination\_2nd Amendment  
Regulations\_Aug\_2018.

HPERC\_Regulation\_Determination  
Amendment\_Nov\_2018

# Select respective fields

**Select Criteria for Document Search**

State/ERC/Utility

Year Of Issue/Order

- 2021
- 2020
- 2019
- 2018
- 2017
- 2016
- 2015
- 2014
- 2013
- 2012
- 2011
- 2010

Domain


**Current Selection: HPERC, 2018**

HIMACHAL PRADESH ELECTRICITY REGULATORY COMMISSION, SHIMLA  
Notification  
Shimla, the 1<sup>st</sup> August, 2018

No. HPERC/428. WHEREAS the Himachal Pradesh Electricity Regulatory Commission (hereinafter referred as "the Commission") made the Himachal Pradesh Electricity Regulatory Commission (Promotion of Generation from the Renewable Energy Sources and Terms and Conditions for Tariff Determination) Regulations, 2017 (hereinafter referred as "RE Tariff Regulations, 2017"), published in the Rajpatra, Himachal Pradesh, dated 23<sup>rd</sup> November, 2017;

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 **HPERC** Generation  
Regulation  
Draft  
**1-Aug-2018**

HPERC\_Draft\_RE Tariff Determination\_2nd Amendment  
Regulations\_Aug\_2018.

**Select Criteria for Document Search**

State/ERC/Utility

Year Of Issue/Order

Domain

- Generation
- Grid
- Market
- Open Access
- Others
- Others
- Power Purchase Agreement
- Power Sale
- Renewable
- Smart Grid
- Solar Power
- Transmission


**Current Selection: HPERC, 2018, Generation**

HIMACHAL PRADESH ELECTRICITY REGULATORY COMMISSION, SHIMLA  
Notification  
Shimla, the 1<sup>st</sup> August, 2018

No. HPERC/428. WHEREAS the Himachal Pradesh Electricity Regulatory Commission (hereinafter referred as "the Commission") made the Himachal Pradesh Electricity Regulatory Commission (Promotion of Generation from the Renewable Energy Sources and Terms and Conditions for Tariff Determination) Regulations, 2017 (hereinafter referred as "RE Tariff Regulations, 2017"), published in the Rajpatra, Himachal Pradesh, dated 23<sup>rd</sup> November, 2017;

AND WHEREAS the State Government vide Notification No.MPPPP-2/2005-X dated 15.05.2018 has amended the Hydro Power Policy, 2006 and has advised the Commission under section 108 of Electricity Act, 2003 to modify the regulation 11 of the RE Tariff Regulations, 2017, to enable all small hydro project developers to be eligible for signing the Power Purchase Agreement(s) under the new regulations and to amend the RE Tariff Regulations, 2017 incorporating aforesaid policy amendments;

AND WHEREAS the Commission, after considering the provisions of amended Hydro Policy,2006 and the advice given under section 108 of Electricity Act, 2003 finds it appropriate to modify the provisions of regulation 11 of the RE

 **HPERC** Generation  
Regulation  
Draft  
**1-Aug-2018**

HPERC\_Draft\_RE Tariff Determination\_2nd Amendment  
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HIMACHAL PRADESH ELECTRICITY REGULATORY COMMISSION, SHIMLA  
Notification  
Shimla, the 1<sup>st</sup> August, 2018

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**AND WHEREAS** the Commission, after considering the provisions of amended Hydro Policy,2006 and the advice given under section 108 of Electricity Act, 2003 finds it appropriate to modify the provisions of regulation 11 of the RE

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