



2008-09

Status Report on Issues pertaining to Tariff Policy

FORUM OF REGULATORS (FOR)

Sectt: C/o Central Electricity Regulatory Commission (CERC)
3rd & 4th Floor, Chanderlok Building, 36, Janpath,
New Delhi – 110 001
Tel : 23353503/ Fax : 23753923
www.forumofregulators.gov.in

Introduction

In compliance with section 3 of the Electricity Act 2003 the Central Government notified the Tariff Policy (TP) on 6th January, 2006 in continuation of the National Electricity Policy (NEP) notified on 12th February 2005. The objectives of this tariff policy are to:

- a) Ensure availability of electricity to consumers at reasonable and competitive rates;*
- b) Ensure financial viability of the sector and attract investments;*
- c) Promote transparency, consistency and predictability in regulatory approaches across jurisdictions and minimise perceptions of regulatory risks;*
- d) Promote competition, efficiency in operations and improvement in quality of supply.*

One of the functions of Forum of Regulators (FOR) is “Sharing of information among the members of the Forum on various issues of common interest and also of common approach.” To discharge its functions, FOR selected major issues pertaining to State Electricity Regulatory Commissions (SERCs) in Tariff Policy such as Return on Equity, Depreciation Rates, Implementation of Intra-state ABT, Time of Day (TOD) Tariff, Renewable Source of Energy, Open Access etc. and compiled implementation status of these major issues on yearly basis.

The status compiled in this report is based on the inputs received from SERCs. The updated status for year 2008-09 have been received from the SERCs of Andhra Pradesh, Assam, Bihar, Chhattisgarh, Gujarat, Haryana, Himachal Pradesh, Jharkhand, Kerala, Karnataka, Madhya Pradesh, Maharashtra, Meghalaya, Punjab, Rajasthan, Tamil Nadu, Uttar Pradesh, Uttarakhand & West Bengal. However, previous year’s status has been considered in case of remaining States i.e. Delhi, J&K, Orissa and Tripura.

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1. Return on Equity

Provision in Tariff Policy :
5.3 (a) Return on Investment

.....
 The Central Commission would notify, from time to time, the rate of return on equity for generation and transmission projects keeping in view the assessment of overall risk and the prevalent cost of capital which shall be followed by the SERCs also. The rate of return notified by CERC for transmission may be adopted by the State Electricity Regulatory Commissions (SERCs) for distribution with appropriate modification taking into view the higher risks involved. For uniform approach in this matter, it would be desirable to arrive at a consensus through the Forum of Regulators.

S. No.	SERC	RoE %	Summary
1.	APERC	14	Most of the issues have been taken care of by APERC except issues like (A) Tariff for 'Below Power Line Category' of consumers (B) reduction of surcharge and cross-subsidies under third provision to Section: 42 (2) of the EA,2003
2.	BERC	14	The Commission has provided ROE @ 14% for Transmission and Distribution Licensee in the relevant regulations.
3.	CSERC	14	Notified in T&C of Tariff on 01-03-06 and MYT Regulations also notified on 25-06-2008. (RoE as per CERC)
4.	GERC	14	RoE allowed as per Tariff Regulations is 14%. In the Tariff Order for 2007-08 dated 31/03/07 the Commission allowed RoE @ 7% for Distribution Companies, @ 10% for Transmission Company and @ 13% for generation Company. For Torrent Power Ltd. this was allowed @ 14%.
5.	HERC	N/A	(a) Discoms: The Commission is continuing Return on Capital Base as the Capital base of Discoms (UHBVNL and DHBVNL) is negative, no return on negative capital base has been allowed. (b) HPGCL: 14% for FY 2008-09. © HVPNL: 8% both for transmission and SLDC business for FY 2008-09
6.	HPERC	16	The Commission has approved RoE to the generation, Transmission and Distribution businesses at the rate of 14%,14% and 16% respectively, in accordance with its Multi Year Tariff Regulations, published in October, 2007.
7.	JSERC	14	The commission has decided on ROE @ 14%
8.	KERC	14	The Commission has specified in its MYT Regulations a RoE of 16% for all the Licensees in the State.

S. No.	SERC	RoE %	Summary
9.	KSERC	14	Commission has decided on RoE 14% and order issued.
10.	MPERC		14% for Transmission, Generation and Retail supply Tariff.
11.	MERC	16	<p>Distribution Licensee is allowed a post-tax return at the rate of 16 per cent per annum, in Indian Rupee terms, on the amount of approved equity capital</p> <p>Transmission Licensee is allowed a post-tax return at the rate of 14 per cent per annum, in Indian Rupee terms, on the amount of approved equity capital</p> <p>Generation Company is allowed a post-tax return at the rate of 14 per cent per annum, in Indian Rupee terms, on the amount of approved equity capital.</p>
12.	PSERC	14	RoE is allowed by the Commission as per CERC norms.
13.	RERC		The Commission has prescribed return on equity in the tariff regulations, at par with the rate prescribed by the CERC
14.	TNERC	14% post tax	RoE notified in the (Terms and Conditions for Determination of Tariff) Regulations 2005.
15.	UERC	14	RoE notified on 14.05.2004 for generating companies, 15.06.2004 for distribution licensee and 25.08.2004 for transmission licensee with a Debt:Equity ratio of 70:30. In certain cases where equity is less than 30% the said actual equity is considered for tariff determination.
16.	WBERC	14	For Distribution Licensee ROE is 15%. For other area of electricity segment, it is 14% except for hydro where there is a scope of additional ROE upto 4% more than what has been provided for in the behalf by the CERC depending on certain criteria.

2. Depreciation Rates

Provision in Tariff Policy :

5.3 (c) Depreciation

The Central Commission may notify the rates of depreciation in respect of generation and transmission assets. The depreciation rates so notified would also be applicable for distribution with appropriate modification as may be evolved by the Forum of Regulators.

S. No.	SERC	CERC Rates	Suggestions for separate Depreciation Rates
1.	APERC		Most of the issues have been taken care of by APERC except issues like (A) Tariff for 'Below Power Line Category' of consumers (B) reduction of surcharge and cross-subsidies under third provision to Section: 42 (2) of the EA,2003
2.	BERC	Adopted	Depreciation rates as specified by CERC have been adopted in tariff orders for retail sale of electricity for 2006-07 and 2008-09 issued by the Commission.
3.	CSERC	Adopted	CERC rates adopted.
4.	GERC	Adopted	CERC depreciation rates are adopted. The commission has nothing to comment on the evolving of separate rates for distribution by FOR.
5.	HERC	Adopted	Depreciation as per CERC rates is being allowed to the Generation Company and the Transmission licensee.
6.	HPERC	Not Adopted Completely	In the MYT Regulations, the Commission has followed the CERC norms for calculations of depreciation. HPSEB, being bundled utility presently does not have assets-wise details but efforts are being made by the utility to complete asset register through GIS mapping. Presently, the Commission is allowing depreciation linked to Gross Fixed Assets (GFA). With the availability of the asset-wise details, the Commission will be following the CERC norms.
7.	JSERC	Adopted	CERC depreciation rates adopted.
8.	KERC	Adopted	The Commission has adopted the depreciation rates as per CERC.
9.	KSERC	Adopted	Depreciation rates approved by CERC adopted for Generation, Transmission & Distribution.
10.	MPERC		The Commission has followed the CERC specified depreciation rates in respect of Generation and Transmission. The CERC specified depreciation rates are also being followed for Distribution Tariff.
11.	MERC	Adopted	Depreciation of fixed assets used in the Generation,

S. No.	SERC	CERC Rates	Suggestions for separate Depreciation Rates
			<p>Transmission, and Distribution Business is computed in the following manner:</p> <p>(a) The approved original cost of such project/ fixed assets shall be the value base for calculation of depreciation;</p> <p>(b) Depreciation shall be computed annually based on the straight line method with regard to the useful life of the asset at the rates specified in the Annexure to these Regulations:</p> <p>Provided that the residual value of the asset shall be considered at 10 per cent of the allowable capital cost and depreciation shall be allowed up to a maximum of 90 per cent of the allowable capital cost of the asset: Provided further that depreciation shall not be permitted on land and the value of land shall be excluded from the allowable capital cost for the purpose of calculation of depreciation.</p>
12.	PSERC	Not adopted	PSEB is integrated Utility. Depreciation is allowed based on straight line method up to 90% of the cost of asset. The rates of depreciation allowed are as notified by Govt. of India in 1994.
13.	RERC	Adopted	The Commission has adopted the depreciation rates specified by CERC in its tariff regulations.
14.	UERC	Adopted	CERC specified rates are adopted by the UERC.
15.	WBERC	Adopted	CERC rates of 2004 Tariff Regulations adopted.

3. Implementation of Intra-state ABT

Provision in Tariff Policy :

6.2 Tariff structuring and associated issues

According to National Electricity Policy, the Availability Based Tariff (ABT) is to be introduced at State level by April 2006. This framework would be extended to generating stations (including grid connected captive plants of capacities as determined by the SERC).

<u>S. No.</u>	<u>SERC</u>	<u>Intra-state ABT</u>	<u>Summary</u>
1.	APERC		Most of the issues have been taken care of by APERC except issues like (A) Tariff for 'Below Power Line Category' of consumers (B) reduction of surcharge and cross-subsidies under third provision to Section: 42 (2) of the EA,2003
2.	BERC		BSEB still continues to be vertically integrated utility handling generation, transmission and distribution of electricity.
3.	CSERC	Not Notified	Orders not issued, reason being Board not restructured.
4.	GERC	Order Issued on 11-08-06	Trial Mock run exercise carried out. Tech up-gradation is almost complete through consultancy assignment to POWERGRID.
5.	HERC		The STU has been directed to submit a road map for introduction of Intra-State ABT in Haryana.
6.	HPERC	Not notified	The SEB is still not unbundled. However the matter is being examined and a draft concept paper has been circulated to the utility for initiating the process.
7.	JSERC	Not Notified	A draft has been circulated calling for comments.
8.	KERC	Notified	Order for implementation of ABT issued on 26.12.2006. Proxy implementation of ABT started in January 2007.
9.	KSERC	Not Notified	As of now the State Electricity Board has not been unbundled.
10.	MPERC		The Commission has finalized draft Balancing and Settlement Code (BSC) and circulated it to all stakeholders for commencing the mock trial. The mock trial has started on 1 st August, 2008. The status on various activities for implementation of Intra State ABT is given below: (i) Providing Connectivity to Genco and Discoms- The Discoms Control Centres and Generation Control Centre have been established and the basic infrastructure is provided.

<u>S. No.</u>	<u>SERC</u>	<u>Intra-state ABT</u>	<u>Summary</u>
			<p>(ii) Training – The SLDC has structured the training programme. The Discoms and Genco Officers have been given the training w.r.t. preparation of schedule and maintaining data of energy drawal in accordance with draft Balancing and Settlement Code (BSC).</p> <p>(iii) Procurement – Procurement of ABT complaint meter is complete.</p> <p>(iv) Installation of ABT complaint 611 No. meters is complete</p> <p>(v) Procurement of ABT based Energy Accounting Software : Completed.</p> <p>(vi) Customization of software is taken up as per draft BSC.</p>
11.	MERC	Order issued on May 17, 2007 in Case No.42 of 2006	<p>The intra-State ABT mechanism was expected to be in operation from April 1, 2008, however, due to the delay in installation of the intra-State ABT compatible meters and related software by the STU (MSETCL), the implementation of the same would have to be deferred. The installation of the intra-State ABT compatible meters and related software will be completed by March 2009 and after that the trial run will be started.</p> <p>Imbalance Pool settlement</p> <p>The Interim Imbalance pool settlement system for settling the monthly Imbalance pool charges for Increments and decrements done to the State Power pool by the Utilities in the State is in place. The pool volume is based on monthly meter readings taken at the critical interface points and the pool value is arrived at on the basis of weighted average Marginal costs paid by the respective pool incrementors.</p>
12.	PSERC	Not Notified	PSEB is an integrated utility. Intra State ABT would be considered after unbundling of the utility.
13.	RERC		The Commission has already issued regulations on intrastate ABT which has come into force w.e.f. 1.4.2008.
14.	UERC	Order Issued; on 04-01-05	Direction was issued on 04.01.2005 for completing the requirement for intra-state ABT by 01.11.2005
15.	UPERC	Orders issued on 24/25 th September, 2007 and 28 th May, 2008	First phase commenced w.e.f. 01.12.07 as per para 7(a) of the Order dated 28.05.08 which includes generating stations of UPRVUNL & UPJVNL (with no UI implications), UPPCL (as consolidated entity of all Govt. Discoms), NPCL, OACs, Captive plants and Cogen plants. Second phase is schedules to commence w.e.f. 28.11.08 as per para 7(b) of the order dated 28.05.08 with all generating stations, Govt. Discoms, NPCL, OACs. In this phase all generating stations (excluding that of Co-generating plants and other non-conventional sources of energy) and distribution companies shall be subject to all provisions of ABT including UI charges.
16.	WBERC	Notified	Already implemented with effect from 01.01.2008.

4. TOD Tariff

Provision in Tariff policy:

6.2 Tariff structuring and associated issues

.....The Appropriate Commission may also introduce differential rates of fixed charges for peak and off peak hours for better management of load.

S. No.	SERC	TOD introduced	Consumer Category	Peak Tariff	Off-Peak Tariff
1.	APERC	Most of the issues have been taken care of by APERC except issues like (A) Tariff for 'Below Power Line Category' of consumers (B) reduction of surcharge and cross-subsidies under third provision to Section: 42 (2) of the EA,2003.			
2.	BERC	TOD tariff has been introduced for HT consumers in tariff order dated 26.08.2008 issued by the Commission			
3.	CSERC	Yes	Compulsory for all H.T. industries	130% of normal rate of energy charge	85% of normal rate of energy charge.
4.	GERC	Yes	All HT consumers having contract demand or actual demand 500 KVA and above	For energy consumption during the two peak periods viz: 0700 hrs to 1100 hrs and 1800 hrs to 2200 hrs – the Time of Use charges are 75 paise per unit	HT Consumer, with contract for 100KVA & above, using electricity exclusively during night hours from 10.00 PM to 6.00 AM next day.
5.	HERC	TOD tariff has not been introduced in Haryana			
6.	HPERC	Yes	Differential peak tariff for individual and water pumping supply	Peak tariff double the normal tariff	
7.	JSERC	Yes			
8.	KERC	Yes	LT Industries,	normal tariff + 80 paise	Normal Tariff – 80 paise
			HT Water Supply	normal tariff + 60 paise	Normal Tariff – 60 paise
			HT Industries	normal tariff + 80 paise	Normal Tariff – 80 paise

S. No.	SERC	TOD introduced	Consumer Category	Peak Tariff	Off-Peak Tariff	
9.	MPERC	Yes	Coal mines (HV-2)	Period:- Evening peak load period (6PM-10 PM) Tariff: 15% of Normal Rate of energy charge as Surcharge Fixed charges shall always be billed at normal rates i.e. ToD Surcharge shall not be applied on Fixed Charge	Period: Off peak load period (10 PM-6AM next day) Tariff: 7.5% of Normal Rate of energy charge as Rebate Fixed charges shall always be billed at normal rates i.e. ToD Rebate shall not be applied on Fixed Charge	
10.			Industrial Non-Industrial Shopping mall (HV-3)	Applicable same as above	Applicable same as above	
11.			Seasonal Industries (HV-4)	Applicable same as above	Applicable same as above	
12.			Irrigation Public water works and other than agriculture (HV-5)	Applicable same as above	Applicable same as above	
13.			Bulk supply to exemptees(HV-7)	Applicable same as above	Applicable same as above	
14.	MERC	Yes	Distribution Licensees	Consumer Category	Peak Tariff	Off-Peak Tariff
			MSEDCL	LT-Domestic, LT-Public Water Works, LT-Industrial, HT-Industry, HT-Commerce, HT-Public Water Works	110	-85
			REL-D	LT-Commercial, LT-	110	-75

S. No.	SERC	TOD introduced	Consumer Category	Peak Tariff	Off-Peak Tariff	
			Industrial upto 20 KW Load, LT-Industrial above 20 KW Load, HT-Industry, HT-Commercial			
			TPC-D	LT-Commercial, LT-Industrial upto 20 KW Load, LT-Industrial above 20 KW Load, HT-Industrial and CPP, HT-Commercial, HT-Public and Government	110	-75
			BEST	LT-Commercial, LT-Industrial upto 20 KW Load, LT-Industrial above 20 KW Load, HT-Industry, HT-Commercial	110	-75
15.	PSERC	No	Not Introduced			
16.	RERC	The Commission has directed the distribution companies to include the concept of TOD tariff in the next tariff petition for the consumers having contract demand of 1500 KVA or more to begin with.				
17.	TNERC	Yes	HT Industrial	20% extra on the energy charges for the energy recorded during the peak hours (6.00 A.M to 9.00 A.M and 6.00 P.M to 9.00 OM	reduction of 5% on the energy charges for the consumption during 22.00 to 05.00 as an incentive for night consumption.	
18.	UERC	Yes	LT Industries about 25 kW & all HT Industries	25% surcharge on energy charge is payable	5% rebate on energy charges is admissible	
19.	UPERC	Yes	For Large and Heavy Power Category (HV-2)*	17 hrs – 22 hrs	22 hrs. – 06 hrs.	
20.	WBERC	Yes	Applicable to those who are under two part tariff i.e. Industrial, Public Utility, Commercial and Agricultural. For some consumers, TOD is optional. Details of Tariff may be seen from Tariff Orders in website www.wberc.net			

*** UPERC: For Large and Heavy Power Category (HV-2)**

Sl. No.	UPERC	For Large and Heavy Power category (HV-2)		
	Base Rate	For supply at 11kV	For supply at 33 & 66 kV	For supply at 132 kV and above
	Demand Charges	Rs.210/kVA	Rs.200/kVA	Rs.180/kVA
	Energy Charges	Rs.4.00/kVAh	Rs.3.35/IVAh	Rs.3.25/kVAh
	(% of Base Rate)	(-) 7.5%	(+) 15%	

5. Renewable Source of Energy

Provision in Tariff policy:

6.4 Non-conventional sources of energy generation including Co-generation:

(1) Pursuant to provisions of section 86(1)(e) of the Act, the Appropriate Commission shall fix a minimum percentage for purchase of energy from such sources taking into account availability of such resources in the region and its impact on retail tariffs. Such percentage for purchase of energy should be made applicable for the tariffs to be determined by the SERCs latest by April 1, 2006.

S. No.	SERC	Tariff	Power Procured From Renewables (%)
1.	APERC	Most of the issues have been taken care of by APERC except issues like (A) Tariff for 'Below Power Line Category' of consumers (B) reduction of surcharge and cross-subsidies under third provision to Section: 42 (2) of the EA,2003.	
2.	BERC	No	Tariff for purchase of power by distribution license from biomass and bagasse based cogeneration plants in Bihar has been determined in Suo Motu Proceeding No.2/2008 and Order issued on 21 st May, 2009 by the Commission. Minimum percentage of total energy consumption to be purchased by a distribution licensee from renewable and cogeneration plants has also been fixed in compliance of section 86(1)(e) of Electricity Act, 2003 in the aforesaid order.
3.	CERC	<ol style="list-style-type: none"> 1. Biomass plants Rs. 2.98 to 3.24 per unit (provisions for review after 5 years) as per order dated 15.01.08. 2. As per Commission's order dated 28.02.2007, the tariff of small hydro generating station shall be project specific. 3. Tariff for solar power plants is :- <ol style="list-style-type: none"> (i) Solar PV – Rs.15.84 per unit (ii) Solar Thermal – Rs.13.26 per unit This tariff is applicable upto 31.08.18 as per order dated 08.09.08 4. CERC (Terms and conditions for determination of generation tariff and related matters for electricity generated 	5% from biomass, 3% from small hydro plants, 2% from solar energy, wind, bagasse based cogeneration etc. is being fixed by minimum procurement of power from renewable sources of energy by distribution licensees Regulations, 2008 notified on 14.07.2008.

<u>S. No.</u>	<u>SERC</u>	<u>Tariff</u>	<u>Power Procured From Renewables (%)</u>																		
		by plants based on non-conventional sources of energy) Regulations, 2008 notified on 22.05.2008.																			
4.	GERC	Wind - Rs.3.37/kWh (fixed for 20 yrs) Bagasse based Cogen plants - Rs. 3.00/kWh Biomass gasification based plants - Rs. 3.08/kWh Mini Hydro plants – Rs3.29/kWh The process of rate determination for solar projects are under consideration.	For FY 06-07 = 1% For FY 07-08 = 1% For FY 08 – 09 = 2%																		
5.	HERC	<table border="1"> <thead> <tr> <th></th> <th>Tariff (Rs/KWh) (For base year FY 2007-08)</th> <th>Annual escalation from 2008-09</th> </tr> </thead> <tbody> <tr> <td>Wind</td> <td>4.08</td> <td>1.50%</td> </tr> <tr> <td>Mini Hydel (Upto 2MW)</td> <td>3.67</td> <td>1.50%</td> </tr> <tr> <td>Biomass</td> <td>4.00</td> <td>2.00%</td> </tr> <tr> <td>Bagasse (Co-generation)</td> <td>3.74</td> <td>2.00%</td> </tr> <tr> <td>Solar</td> <td colspan="2">For plants commissioned up to 31.12.09 Rs.15.96/kWh and for plants commissioned after 31.12.09 but by 31.03.10 Rs.15.16 / kWh, Tariff shall remain constant for 5 years. Tariff payable by the Discoms shall be the difference of the above mentioned tariff and the incentive under MNRE policy.</td> </tr> </tbody> </table>		Tariff (Rs/KWh) (For base year FY 2007-08)	Annual escalation from 2008-09	Wind	4.08	1.50%	Mini Hydel (Upto 2MW)	3.67	1.50%	Biomass	4.00	2.00%	Bagasse (Co-generation)	3.74	2.00%	Solar	For plants commissioned up to 31.12.09 Rs.15.96/kWh and for plants commissioned after 31.12.09 but by 31.03.10 Rs.15.16 / kWh, Tariff shall remain constant for 5 years. Tariff payable by the Discoms shall be the difference of the above mentioned tariff and the incentive under MNRE policy.		Minimum percentage for 2008-09 is 5% and for 2009-10 and thereafter 10%
	Tariff (Rs/KWh) (For base year FY 2007-08)	Annual escalation from 2008-09																			
Wind	4.08	1.50%																			
Mini Hydel (Upto 2MW)	3.67	1.50%																			
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Bagasse (Co-generation)	3.74	2.00%																			
Solar	For plants commissioned up to 31.12.09 Rs.15.96/kWh and for plants commissioned after 31.12.09 but by 31.03.10 Rs.15.16 / kWh, Tariff shall remain constant for 5 years. Tariff payable by the Discoms shall be the difference of the above mentioned tariff and the incentive under MNRE policy.																				
6.	HPERC	Small Hydro : Rs. 2.87/KWh (Levelised) for the 40 years of commercial operation	20% from SHPP.																		
7.	JSERC	Not determined	Not yet fixed. For use of solar water heater by commercial consumers a rebate has been provided in Tariff Order 2006-07 for JSEB.																		

S. No.	SERC	Tariff	Power Procured From Renewables (%)															
8.	KERC	(1) Mini hydel – Rs.2.80/unit, without escalations (2) Wind – Rs.3.40/unit, without escalations (3) Biomass – Rs.2.85/unit, with 2% simple annual escalations. (4) Co-gen – Rs.2.80/unit, with 2% simple annual escalations.	As per the amended Regulation the maximum limit has been removed and ESCOM wise minimum percent fixed as indicated below: BESCOM, ESCOM & CESC... 10% HESCOM, & GESCOM and Hkeri Society 7.00%.															
9.	KSERC	Wind : Rs. 3.14 (Levelised) Small Hydro : Rs. 2.44 (Levelised)	Up to 5%															
10.	MPERC	i) Wind: The Tariff order dated 11.06.2004 for a period of three year had already been issued. Tariff order for the control period from 21-11-2007 to 31.03.2012 was issued on 21.11.2007 ii) Bio Mass – Tariff order for the control period from 07.08.2007 to 31.03.2012 was issued on 07.08.2007 iii) Bagasse based Cogeneration: Tariff order for the control period from 03.09.2008 to 31.02.2013 was issued on 03.09.2008. iv) Small Hydro based generation: Tariff order for the control period from 30.06.2008 to 31.03.2013 was issued on 30.06.2008	The Commission has fixed a target for each Distribution licensee at the rate of 10% of his annual consumption in his area of supply, subject to availability as the minimum purchase requirement from all non conventional sources of energy.															
11.	MERC	<table border="1"> <thead> <tr> <th>NCE Source</th> <th>Variable charges (Rs./kWh)</th> <th>Escalation</th> </tr> </thead> <tbody> <tr> <td>Bagasse based Cogeneration</td> <td>Rs. 3.05 (Rs./kWh)</td> <td>2 % per annum for 13 years</td> </tr> <tr> <td>Wind Energy</td> <td>Rs.3.50 (Rs./kWh)</td> <td>Rs.0.15/unit per annum</td> </tr> <tr> <td>Small Hydel</td> <td>Rs.2.84 (Rs./kWh)</td> <td>Rs.0.03 per annum for 13 years</td> </tr> <tr> <td>Biomass</td> <td>Rs. 3.04 (Rs./kWh)</td> <td>2% per annum for 13 years</td> </tr> </tbody> </table>	NCE Source	Variable charges (Rs./kWh)	Escalation	Bagasse based Cogeneration	Rs. 3.05 (Rs./kWh)	2 % per annum for 13 years	Wind Energy	Rs.3.50 (Rs./kWh)	Rs.0.15/unit per annum	Small Hydel	Rs.2.84 (Rs./kWh)	Rs.0.03 per annum for 13 years	Biomass	Rs. 3.04 (Rs./kWh)	2% per annum for 13 years	Target percentage for RE procurement under RPS regime for FY 2007-08 has been specified at 4% of energy input by distribution licensee, as stipulated in the Commission's Order on Renewable Purchase Specification (RPS) dated August 16, 2006 in Case 6 of 2006
NCE Source	Variable charges (Rs./kWh)	Escalation																
Bagasse based Cogeneration	Rs. 3.05 (Rs./kWh)	2 % per annum for 13 years																
Wind Energy	Rs.3.50 (Rs./kWh)	Rs.0.15/unit per annum																
Small Hydel	Rs.2.84 (Rs./kWh)	Rs.0.03 per annum for 13 years																
Biomass	Rs. 3.04 (Rs./kWh)	2% per annum for 13 years																
12.	PSERC	a) Mini/Micro Hydel, Baggasse / Biomass : 370 P/Unit b) Biomass, Urban / Municipal / Industrial	1% of the total energy consumption in the State to be procured from renewable energy sources															

<u>S. No.</u>	<u>SERC</u>	<u>Tariff</u>	<u>Power Procured From Renewables (%)</u>
		Liquid solid waste to energy and wind power project : 384 P/unit c) Solar Energy: 772 P/unit	
13.	RERC	The status remains the same regarding tariff for wind & biomass power as well as renewable energy purchase obligations.	
14.	TNERC	(1) Wind mills (commissioned and agreement executed prior to 15-05-06 but renegotiated after 15.5.2006) - Rs.2.75/unit. (2) Wind mills (commissioned and agreement executed after 15-05-06) – Rs.2.90/unit. (3) Biomass Plants – Rs.3.15/ unit (4) Bagasse based Cogen – Rs.3.15/unit	10% as the minimum percentage of power each distribution licensee shall purchase from NCES sources out of his total consumption in his area of supply.
15.	UERC	(a) Projects commissioned before 01.04.2007 (i) SHP (upto 25 MW) & Solar Projects Upto 5 MW Rs. 2.55/unit 5 to 10 MW Rs. 2.55/unit 10 to 15 MW Rs. 2.50/unit 15 to 20 MW Rs. 2.45/unit 20 to 25 MW Rs. 2.40/unit (ii) Bagasse based co-generation Projects Fixed Charges of Rs.1.80 per unit. In addition, the normative fuel price is admissible on Rihand II plant in the Northern Region on parameters approved by CERC and in accordance with the formula given in the Regulation, provisionally taken as Rs.1.32/unit. (b) Projects commissioned on or after 01.04.2007 (i) SHP/Solar Projects (upto 25 MW) Upto 5 MW Rs.2.80/unit 5 to 10 MW Rs. 2.80/unit 10 to 15 MW Rs. 2.75/unit 15 to 20 MW Rs. 2.70/unit 20 to 25 MW Rs. 2.65/unit (ii) Bagasse based co-generation Projects Fixed Charges of Rs.1.90/unit. In addition, the normative fuel price is admissible based on Rihand II plant in the Northern	Target for 2008-09 of 5%, 2009-10 of 8% and thereafter increase of 1% per annum for each subsequent year to reach a level of 10% by 2011-12. Entire 100% power from renewable sources including cogeneration projects are purchased ahead of the merit order.

S. No.	SERC	Tariff	Power Procured From Renewables (%)																																																																																																					
		<p>Region on parameters approved by CERC and in accordance with the formula given in the Regulation, provisionally taken as Rs.1.32/unit.</p> <p>(iii) Biomass/Biogas Projects Rs.1.35/unit Fixed Charges of Rs. 1.90/unit. In addition, the normative fuel price is admissible based on Rihand II plant in the Northern Region on parameters approved by CERC and in accordance with the formula given in the Regulation, provisionally taken as Rs.1.71/unit.</p> <p>(iv) Wind Projects Rs.3.90/unit</p>																																																																																																						
16.	UPERC	<p>(a) Tariff for Biomass/Bagasse based Co-gen:</p> <table border="1"> <thead> <tr> <th></th> <th colspan="5">Tariff Year</th> </tr> <tr> <th>Year of Commissioning</th> <th>2005-06</th> <th>2006-07</th> <th>2007-08</th> <th>2008-09</th> <th>2009-10</th> </tr> </thead> <tbody> <tr> <td>2005-06</td> <td>286</td> <td>289</td> <td>293</td> <td>297</td> <td>302</td> </tr> <tr> <td>2006-07</td> <td></td> <td>298</td> <td>302</td> <td>306</td> <td>310</td> </tr> <tr> <td>2007-08</td> <td></td> <td></td> <td>311</td> <td>315</td> <td>320</td> </tr> <tr> <td>2008-09</td> <td></td> <td></td> <td></td> <td>325</td> <td>329</td> </tr> <tr> <td>2009-10</td> <td></td> <td></td> <td></td> <td></td> <td>338</td> </tr> </tbody> </table> <p>(b) Mini/Micro hydel and canal based hydro plants below 25 MW:</p> <table border="1"> <thead> <tr> <th rowspan="2">Year of operation</th> <th colspan="5">Year of Commissioning</th> </tr> <tr> <th>2005-06</th> <th>2006-07</th> <th>2007-08</th> <th>2008-09</th> <th>2009-10</th> </tr> </thead> <tbody> <tr> <td>1st</td> <td>339.27</td> <td>349.45</td> <td>359.63</td> <td>369.81</td> <td>379.98</td> </tr> <tr> <td>2nd</td> <td>329.09</td> <td>338.96</td> <td>348.83</td> <td>358.70</td> <td>368.58</td> </tr> <tr> <td>3rd</td> <td>318.97</td> <td>328.53</td> <td>338.10</td> <td>347.67</td> <td>357.24</td> </tr> <tr> <td>4th</td> <td>308.91</td> <td>318.18</td> <td>327.45</td> <td>336.72</td> <td>345.98</td> </tr> <tr> <td>5th</td> <td>298.94</td> <td>307.90</td> <td>316.87</td> <td>325.84</td> <td>334.81</td> </tr> <tr> <td>6th</td> <td>289.03</td> <td>297.70</td> <td>306.37</td> <td>315.04</td> <td>323.72</td> </tr> <tr> <td>7th</td> <td>279.21</td> <td>287.58</td> <td>295.96</td> <td>304.33</td> <td>312.71</td> </tr> <tr> <td>8th</td> <td>269.</td> <td>277.</td> <td>285.</td> <td>293.</td> <td>301.</td> </tr> </tbody> </table>		Tariff Year					Year of Commissioning	2005-06	2006-07	2007-08	2008-09	2009-10	2005-06	286	289	293	297	302	2006-07		298	302	306	310	2007-08			311	315	320	2008-09				325	329	2009-10					338	Year of operation	Year of Commissioning					2005-06	2006-07	2007-08	2008-09	2009-10	1st	339.27	349.45	359.63	369.81	379.98	2nd	329.09	338.96	348.83	358.70	368.58	3rd	318.97	328.53	338.10	347.67	357.24	4th	308.91	318.18	327.45	336.72	345.98	5th	298.94	307.90	316.87	325.84	334.81	6th	289.03	297.70	306.37	315.04	323.72	7th	279.21	287.58	295.96	304.33	312.71	8th	269.	277.	285.	293.	301.	<p>Each distribution licensee must purchase 7.5% of their total power purchase from renewable and non-conventional energy sources.</p>
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<u>S. No.</u>	<u>SERC</u>	<u>Tariff</u>					<u>Power Procured From Renewables (%)</u>						
		46	55	63	71	80							
9th		259.80	267.60	275.39	283.18	290.98							
10th		250.23	257.74	265.24	272.75	280.26							
11th		164.08	169.00	173.92	178.84	183.76							
12th		166.54	171.54	176.53	181.53	186.53							
13th		169.11	174.18	179.25	184.33	189.40							
14th		171.77	176.93	182.08	187.23	192.39							
15th		174.55	179.78	185.02	190.26	195.49							
16th		177.0	182.76	188.08	193.4	198.73							
17th		180.43	185.85	191.26	196.67	202.09							
18th		183.55	189.06	194.57	200.07	205.58							
19th		186.80	192.40	198.01	203.61	209.22							
20th		190.17	195.88	201.59	207.29	213.00							
<p>(c) For other Non conventional and renewable sources tariff would be Rs. 2.50/Unit for 2005-06 with an escalation of 4% per annum for subsequent years without compounding. Other non-conventional sources of energy shall include, inter alia, generation from wind, solar, municipal wastes, industrial wastes, including sold, semi-solid, liquid & gaseous wastes and bio-gas.</p> <p>(d) Solar Power</p> <table border="1"> <thead> <tr> <th>Type of Power</th> <th>Rate of electricity for 20 hrs.</th> </tr> </thead> <tbody> <tr> <td>Solar Power</td> <td>Rs.15.00/kwh</td> </tr> <tr> <td>Solar Thermal</td> <td>Rs.13.00/kwh</td> </tr> </tbody> </table> <p>1. Applicable to developers not availing accelerated depreciation benefit. 2. Applicable for plants commissioned upto 31.12.2011</p>								Type of Power	Rate of electricity for 20 hrs.	Solar Power	Rs.15.00/kwh	Solar Thermal	Rs.13.00/kwh
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<u>S. No.</u>	<u>SERC</u>	<u>Tariff</u>	<u>Power Procured From Renewables (%)</u>																																		
17.	WBERC	Maximum capping on tariff: (1) Biomass = Rs. 4.00/unit (2) Wind = Rs.4/unit (3) Small Hydel =Rs. 3.6/ unit (4) Co-generation = Rs. 2.55/unit (5) Solar PV = Rs. 11/unit (6) Bio-gas = Rs. 5/unit	<table border="1"> <thead> <tr> <th>Year</th> <th>2008-09</th> <th>2009-10</th> <th>2010-11</th> <th>2011-12</th> </tr> </thead> <tbody> <tr> <td>WBSEB</td> <td>4.8</td> <td>6.8</td> <td>8.3</td> <td>10</td> </tr> <tr> <td>CESC Ltd.</td> <td>4.0</td> <td>6.0</td> <td>8.0</td> <td>10</td> </tr> <tr> <td>DPL</td> <td>2.5</td> <td>4.0</td> <td>7.0</td> <td>10</td> </tr> <tr> <td>DPSCLtd</td> <td>2.0</td> <td>4.0</td> <td>7.0</td> <td>10</td> </tr> <tr> <td>DVC</td> <td>2.0</td> <td>4.0</td> <td>7.0</td> <td>10</td> </tr> </tbody> </table>	Year	2008-09	2009-10	2010-11	2011-12	WBSEB	4.8	6.8	8.3	10	CESC Ltd.	4.0	6.0	8.0	10	DPL	2.5	4.0	7.0	10	DPSCLtd	2.0	4.0	7.0	10	DVC	2.0	4.0	7.0	10				
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6. Status of Determination of Open Access Surcharge

Provision in Tariff Policy:

8.5 Cross-subsidy surcharge and additional surcharge for open access

8.5.1 National Electricity Policy lays down that the amount of cross-subsidy surcharge and the additional surcharge to be levied from consumers who are permitted open access should not be so onerous that it eliminates competition which is intended to be fostered in generation and supply of power directly to the consumers through open access.

A consumer who is permitted open access will have to make payment to the generator, the transmission licensee whose transmission systems are used, distribution utility for the wheeling charges and, in addition, the cross subsidy surcharge. The computation of cross subsidy surcharge, therefore, needs to be done in a manner that while it compensates the distribution licensee, it does not constrain introduction of competition through open access. A consumer would avail of open access only if the payment of all the charges leads to a benefit to him. While the interest of distribution licensee needs to be protected it would be essential that this provision of the Act, which requires the open access to be introduced in a time-bound manner, is used to bring about competition in the larger interest of consumers.

S. No.	SERC	Utility	Cross-Subsidy Surcharge (Paise/KWh)						Methodology Adopted
			2006-07		2007-08		2008-09		
			HT	LT	HT	LT	HT	LT	
1..	APERC	APCPDCL APEPDCL APNPDCL APSPDCL	Most of the issues have been taken care of by APERC except issues like (A) Tariff for 'Below Power Line Category' of consumers (B) reduction of surcharge and cross-subsidies under third provision to Section: 42 (2) of the EA,2003						
2.	BERC	BSEB	Determined vide order dated 02.11.2007 for the year 2006-07 till it's revised. Subsequently this has been revised in the tariff order dated 26.08.2008 for the year 2007-08 till it's revised.						
3.	CSERC	CSEB	EHT	HT	EHT	HT	EHT	HT	Average cost method
			68	55	65	38	65	38	
4.	GERC	GEB							
		DGVCL	Rs.1.35 / kWh	Rs.1.35 / kWh	Rs. 1.00 / kWh	Rs. 1.00 / kWh	proposed Rs 0.37 per kWh	proposed Rs 0.37 per kWh	
		MGVCL	Rs.1.35 / kWh	Rs.1.35 / kWh	Rs. 1.00 / kWh	Rs. 1.00 / kWh	proposed Rs 0.37 per kWh	proposed Rs 0.37 per kWh	

S. No.	SERC	Utility	Cross-Subsidy Surcharge (Paise/KWh)						Methodology Adopted
			2006-07		2007-08		2008-09		
			HT	LT	HT	LT	HT	LT	
							kWh		
		PGVCL	Rs.1.35 / kWh	Rs.1.35 / kWh	Rs. 1.00 / kWh	Rs. 1.00 / kWh	proposed Rs 0.37 per kWh	proposed Rs 0.37 per kWh	
		UGVCL	Rs.1.35 / kWh	Rs.1.35 / kWh	Rs. 1.00 / kWh	Rs. 1.00 / kWh	proposed Rs 0.37 per kWh	proposed Rs 0.37 per kWh	
		TPAL	Rs.1.35 / kWh	Rs.1.35 / kWh	Rs. 1.00 / kWh	Rs. 1.00 / kWh	proposed Rs 0.37 per kWh	proposed Rs 0.37 per kWh	
5.	HERC	DHBVNL	Waived off by Govt. of Haryana for 2007-08				91 P/unit (Waived off by GOH)	Nil	Current tariff minus average cost of supply.
		UHBVNL							
6.	HPERC	HPSEB			Nil		Nil	NTP Formula	
7	JSERC	JSEB							
8.	KERC	BESCOM	115 Ps/unit for 66 Kv	-	113 Ps/unit for 66 Kv 80 Ps/unit for 33 Kv	-	93 Ps/unit for 66 Kv 78 Ps/unit for 33 Kv	-	As per Tariff Policy
9.		GESCOM	115 Ps/unit for 66 Kv	-	113 Ps/unit for 66 Kv 80 Ps/unit for 33 Kv		86 Ps/unit for 66 Kv 67 Ps/unit for 33 Kv		
10.		HESCOM	115 Ps/unit	-	113 Ps/unit		66 Ps/unit		

S. No.	SERC	Utility	Cross-Subsidy Surcharge (Paise/KWh)						Methodology Adopted
			2006-07		2007-08		2008-09		
			HT	LT	HT	LT	HT	LT	
			for 66 Kv		t for 66 Kv		for 66 Kv		
					80 Ps/unit for 33 Kv		22 Ps/unit for 33 Kv		
11.		MESCOM	115 Ps/unit for 66 Kv	-	113 Ps/unit for 66 Kv		62 Ps/unit for 66 Kv		
					80 Ps/unit for 33 Kv		34Ps/unit for 33 Kv		
12.		CESC	-		113 Ps/unit for 66 Kv		52 Ps/unit for 66 Kv		
					80 Ps/unit for 33 Kv		20 Ps/unit for 33 Kv		
13.	KSERC	KSEB	Not finalised no petition for open access received						
14.	MPERC	MPSEB >132kV	0.94		0.94		To be determined		As per Tariff Policy Provisions
		MPSEB >33kV <132kV	0.63		0.63		To be determined		
		MP Madhya Kshetra VVCL >132 kV	0.94		0.94		To be determined		
		Vidyut Vitran Co. Ltc. ?33 kV <132 kV.	0.63		0.63		To be determined		

S. No.	SERC	Utility	Cross-Subsidy Surcharge (Paise/KWh)						Methodology Adopted	
			2006-07		2007-08		2008-09			
			HT	LT	HT	LT	HT	LT		
		M.P. Paschim Kshetra Vidyut Vitaran Co. Ltd. > 132 kV	0.94		0.94		To be determined			
		>33 kV <132kV	0.63		0.63		To be determined			
		M.P. Poorv Kshetra Vidyut Vitaran Co. Ltd. >132kV	0.94		0.94		To be determined			
		>33 kV <132kV	0.63		0.63		To be determined			
15.	MERC	MSEB							Computation of Cross-subsidy surcharge has been done in accordance with the formula specified in Tariff Policy	
		MSEDCL	Nil		Nil		Nil			
		TPC	Nil		Nil		Nil			
		REL	Nil		Nil		Nil			
		BEST	Nil		Nil		Nil			
16.	PSERC	PSEB	50% of realization per unit minus combined average cost of supply of category seeking open access			Nil	Nil	Nil	Nil	i) For 2006-07 As per PSERC Open Access Regulations ii) For 2007-08 & 2008-09 As per

S. No.	SERC	Utility	Cross-Subsidy Surcharge (Paise/KWh)						Methodology Adopted																		
			2006-07		2007-08		2008-09																				
			HT	LT	HT	LT	HT	LT																			
									Tariff Policy																		
17.	RERC	The Commission has specified the open access surcharge for the financial year 2008-09 for various categories & voltage levels ranging from Rs.0.17 to Rs..1.47 per KWH.																									
18.	TNERC	<i>Status of Determination of Open Access Surcharge with effect from 15.05.2006*</i>																									
19.	UERC	UPPCL	Nil	Nil	Nil	Nil	Nil	Nil	It is nil for 2008-09. It will be in accordance to the formula given in the Tariff Policy for later years.																		
20.	WBERC	<p>Costs avoided by Distribution Licensees are shown as under:</p> <table border="1"> <thead> <tr> <th>Licensee</th> <th colspan="2">Costs avoided by Licensee</th> </tr> <tr> <td></td> <th>2007-08</th> <th>2008-09</th> </tr> </thead> <tbody> <tr> <td>WBSEDCL</td> <td>239.88 + Wheeling Charge#</td> <td>143.42 + Wheeling Charges#</td> </tr> <tr> <td>CESC Ltd.</td> <td>192.75 + Wheeling charges#</td> <td>205.17 + Wheeling Charges#</td> </tr> <tr> <td>DPSC Ltd.</td> <td>307.93 + Wheeling Charges#</td> <td>282.57 + Wheeling Charges#</td> </tr> <tr> <td>DPL</td> <td>118.42 + Wheeling charges#</td> <td>133.80 + Wheeling charges</td> </tr> </tbody> </table> <p># as applicable to the relevant Open Access case.</p> <p>Cost avoided is worked out following the formula in the Open Access Regulation:</p> <p>Weighted average of unit cost of pooled power Purchase variable cost* and own generation fuel cost (against sent out energy), if any per unit (100-T&D Loss in percentage as allocable for the relevant open access case) x 0.01</p> <p>+ Wheeling charges per unit as applicable to the relevant open access case</p> <p>* Where the power purchase cost is in single part the separation of capacity cost and variable cost will be as per the decision of the Commission.</p>							Licensee	Costs avoided by Licensee			2007-08	2008-09	WBSEDCL	239.88 + Wheeling Charge#	143.42 + Wheeling Charges#	CESC Ltd.	192.75 + Wheeling charges#	205.17 + Wheeling Charges#	DPSC Ltd.	307.93 + Wheeling Charges#	282.57 + Wheeling Charges#	DPL	118.42 + Wheeling charges#	133.80 + Wheeling charges	
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S. No.	SERC	Utility	Cross-Subsidy Surcharge (Paise/KWh)						Methodology Adopted
			2006-07		2007-08		2008-09		
			HT	LT	HT	LT	HT	LT	

* Status of Determination of Open Access Surcharge with effect from 15.5.2006

Sl. No.	Injection Voltage (in kV)	Drawal Voltage (in kV)	Cross Subsidy surcharges (paise/unit)		
			Industries	Educational Institutions	Commercial
1	22/11	22/11	97.17	91.71	274.87
2	33	22/11	105.47	100.01	283.17
3	110	22/11	108.49	103.03	286.19
4	110	33	116.80	111.34	294.50
5	110	110	119.82	114.36	297.52
6	230	22/11	110.76	105.30	288.46
7	230	33	119.06	113.60	296.76
8	230	110	122.08	116.62	299.78
9	230	230	124.35	118.89	302.05

7. Harnessing of Surplus Captive Generation

Provision in Tariff Policy:

6.3 Harnessing captive generation

Captive generation is an important means to making competitive power available. Appropriate Commission should create an enabling environment that encourages captive power plants to be connected to the grid.

Such captive plants could inject surplus power into the grid subject to the same regulation as applicable to generating companies.

.....
Wheeling charges and other terms & conditions should be determined in advance by the SERC ensuring that charges are reasonable and fair.

Review of 'FOR' recommendations.

1. There should be no penalty for reduction of contracted demand by consumer having CPP.
2. In view of little justification for levy of parallel operations charges/ Grid Support Charges these charges to be kept at the lowest level.
3. There should be no minimum guarantee charges.
4. Charges for start-up / stand-by power should be reasonable and should not exceed the charges fixed for temporary connection.

S. No.	SERC	Penalty for reduction of contracted demand by consumer having CPP	Parallel operation charges/ Grid Support Charges	Minimum Guarantee Charges	Start-up / Stand by Charges	Wheeling Charges
1.	APERC	Most of the issues have been taken care of by APERC except issues like (A) Tariff for 'Below Power Line Category' of consumers (B) reduction of surcharge and cross-subsidies under third provision to Section: 42 (2) of the EA,2003				
2.	BERC	As per information submitted by BSEB (deemed Licensee) there is no captive power plant connected to the grid in the State.				The Commission has last determined these charges vide order dated 26.08.2008
3.	CSERC	Nil	Rs. 10/KVA per month on the installed capacity of	Nil	Separate tariff for start-up power:-	33 KV (i) 15 paise

S. No.	SERC	Penalty for reduction of contracted demand by consumer having CPP	Parallel operation charges/ Grid Support Charges	Minimum Guarantee Charges	Start-up / Stand by Charges	Wheeling Charges
			<p>captive generator.</p> <p>The work of technical study on effect of Parallel operation has been entrusted to ERDA, Baroda to arrive at appropriate basis of parallel operation charges. Study completed, report under preparation.</p>		<p>(i) Demand charge – Rs. 150 per KVA per month</p> <p>(ii) Energy charge – Rs. 3.20 per unit</p>	<p>per unit</p> <p>Plus</p> <p>(ii) 6% in kind to be deducted from energy input at 33 KV</p>
4.	GERC	No Such provisions	No Parallel operation charges	No minimum guarantee charges. However, the Fixed charge as per tariff Schedule is to be paid.	No separate standby charge but for standby power, charge is levied at applicable demand charge for contracted load of the consumer. Under Intrastate ABT, standby energy will be charged at UI rate applicable from time to time.	Wheeling charges determined through ARR exercise & is in line with CERC regulations The wheeling charges for 2007-08 are Rs.67210 / MW / Month
5.	HERC	No charges	No charges	Rs.400/- per KVA of contract demand for are furnaces and steel furnaces / steel rolling mills and Rs.200/-	No charges	Rs.0.19 / kWh

S. No.	SERC	Penalty for reduction of contracted demand by consumer having CPP	Prallel operation charges/ Grid Support Charges	Minimum Guarantee Charges	Start-up / Stand by Charges	Wheeling Charges
				per KVA of contract demand for all other industries above 70 KW		
6.	HPERC	<i>Utility has been asked to ascertain the surplus captive generation.</i>				
7.	KERC	<i>KERC has issued orders for harnessing the surplus captive power from CPPs in the State by specifying the rates linked to UI rates. KERC has not prescribed any penalty for reduction of CD, parallel operation charges, minimum guarantee charges etc.,</i>				
8.	KSERC	<i>Not finalised yet</i>				
9.	MPERC	NIL	NIL	NIL	Rs. 20 PER KVA	Not determined
10.	MERC	No penalty for reduction of the contracted Demand	Parallel Operation charges called as standby charges in Maharashtra have been specified as Rs.170/kVA/month and applicable only for the standby component (as compared to normal demand charges of Rs.150/kVA/month)	No. Minimum Guarantee charges	Default supply charge is equal to the tariff applicable to Temporary category	The Commission on determines the wheeling charges every year, in the tariff order of the respective distribution licensee
11.	PSERC	<i>Policy yet to be formulated</i>				
12.	RERC	The Commission has complied with the recommendation of FOR as already reported				
13.	TNERC	No reduction of load within one year from the date of availing the supply. Subsequently,	Details given separately*	----	621.21	14.74

S. No.	SERC	Penalty for reduction of contracted demand by consumer having CPP	Prallel operation charges/ Grid Support Charges	Minimum Guarantee Charges	Start-up / Stand by Charges	Wheeling Charges
		one time reduction is permitted without any charges. For second and subsequent reduction in a year, one time charges of twice the demand charges for the demand surrendered is payable. Reduction upto 50% of the then existing contracted demand at the time of applying for reduction in demand is permissible				
14.	UERC	Nil	Nil, however, the responsibility of synchronization and providing synchronizing equipments conforming to requisite standards and import/export meters shall lie with the captive generators.	Nil	The Commission has included the consumers having stand alone CPP for taking emergency power supply in the event of tripping or for start up power requirements from the licensees under the Temporary Supply which shall be billed at the	On case to case basis. No case reported

S. No.	SERC	Penalty for reduction of contracted demand by consumer having CPP	Parallel operation charges/ Grid Support Charges	Minimum Guarantee Charges	Start-up / Stand by Charges	Wheeling Charges
					applicable rates. Other CPP's if they are consumers of the licensee shall be charged only the applicable tariff.	
15.	UPERC		Zero		Zero	Details as per table below**
16.	WBERC	No such penalty. (Provisions of WBERC (Standard of Performance) Regulations, 2007 have to be followed for reduction of load/contractual demand)	No such charge	No such charge (However tariff orders of respective distribution licensees may be referred to for 'Minimum Charge' or 'Demand Charge' irrespective of captive generator consumer or other consumer)	No such charge (As per agreement for contract demand and rates as per tariff orders)	To please see under NEP. For details, tariff orders of distribution licensee determining wheeling charges may be seen from website.

* Parallel Operation Charges(TNERC):

Sl. No.	Injection Voltage (in kV)	Drawal Voltage (in kV)	Parallel operation charges (% on demand charges)
1	22/11	22/11	37.04
2	33	22/11	38.90
3	110	22/11	39.56
4	110	33	41.28
5	110	110	41.88
6	230	22/11	40.04
7	230	33	41.73

8	230	110	42.32
9	230	230	42.76

**** Wheeling Charges (UPERC)**

	Long Term (Paise/unit)		Short Term (Paise/unit)	
	Above 11kV	11kV	Above 11kV	11kV
<i>PVVNL</i>	28	45	7	11
<i>DVVNL</i>	28	45	7	11
<i>MVVNL</i>	28	45	7	11
<i>PuVVNL</i>	28	45	7	11
<i>KESCO</i>	25	40	6	10
<i>NPCL</i>	32	51	8	13