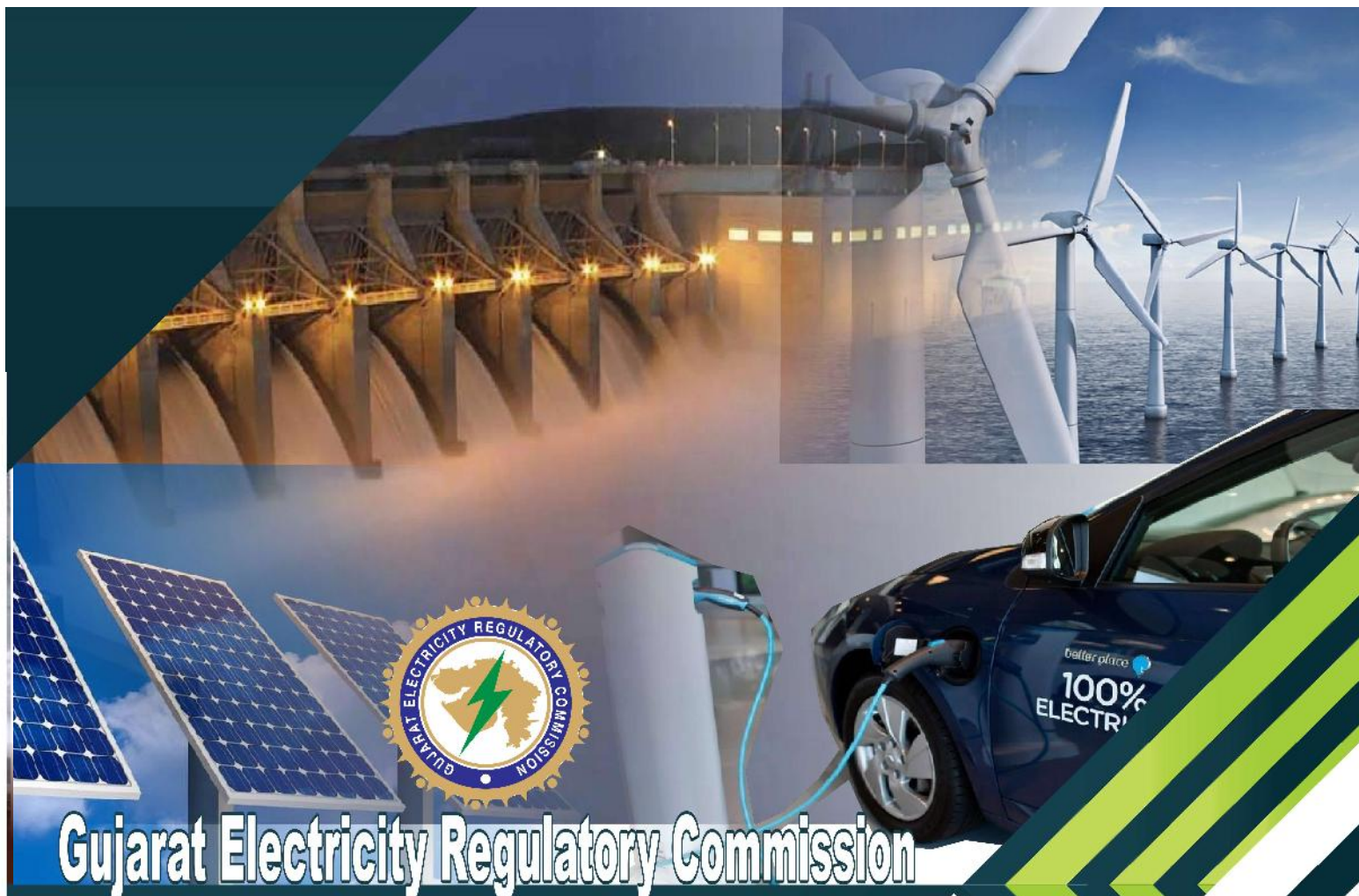




Gujarat Electricity Regulatory Commission

18th ANNUAL REPORT

Financial Year 2016-17

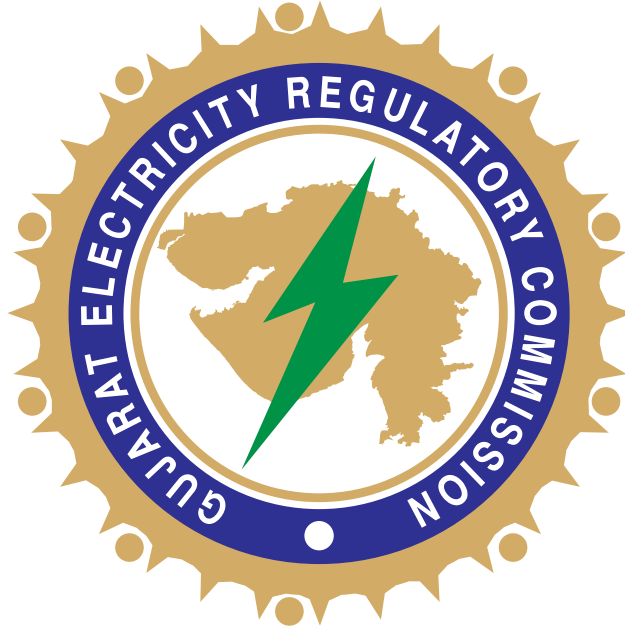
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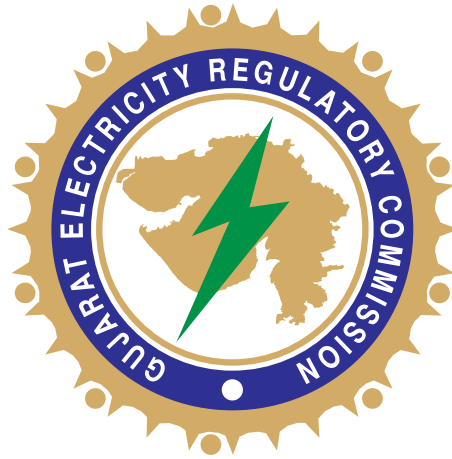
GUJARAT ELECTRICITY REGULATORY COMMISSION

Eighteenth Annual Report 2016-17



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GUJARAT ELECTRICITY REGULATORY COMMISSION



**The Commission presents the 18th Annual Report for
FY 2016-17, as required under Section 105 of the
Electricity Act, 2003.**

Roopwant Singh, IAS
Secretary
Gujarat Electricity Regulatory Commission



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ABBREVIATIONS

ABT	Availability Based Tariff
ARR	Annual Revenue Requirement
BPL	Below Poverty Line
CEI	Chief Electrical Inspector
CERC	Central Electricity Regulatory Commission
CERS	Consumer Education and Research Society
CIRE	Central Institute of Rural Electrification
CPP	Captive Power Plant
DGVCL	Dakshin Gujarat Vij Company Ltd
DSM	Demand Side Management
EI	Electrical Inspector
ESCI	Engineering Staff College of India
FOIR	Forum of Indian Regulators
FOR	Forum of Regulators
FPPPA	Fuel and Power Purchase Price Adjustment
GEB	Gujarat Electricity Board
GERC	Gujarat Electricity Regulatory Commission
GETCO	Gujarat Energy Transmission Corporation Ltd.
GSECL	Gujarat State Electricity Corporation Ltd.
GUVNL	Gujarat Urja Vikas Nigam Ltd.
IIT	Indian Institute of Technology
IOC	Indian Oil Corporation Ltd
KPT	Kandla Port Trust
MGVCL	Madhya Gujarat Vij Company Ltd
MUPL	MPSEZ Utilities Pvt. Ltd.
MTR	Mid-Term Review
NTCT	Night Time Concessional Tariff
PDCRC	Permanent Disconnection Consumer Reconnection Charge
PGVCL	Pashchim Gujarat Vij Company Ltd.
POC	Parallel Operation Charges
PPA	Power Purchase Agreement
SSNNL	Sardar Sarovar Narmada Nigam Limited
SAFIR	South Asia Forum for Infrastructure Regulation
SLDC	State Load Dispatch Centre
TPL	Torrent Power Limited
TEL	Torrent Energy Limited
TOU	Time of Use
TOD	Time of Day
UGVCL	Uttar Gujarat Vij Company Ltd



FROM THE DESK OF THE CHAIRMAN

Since more than a decade, the Gujarat Electricity Regulatory Commission, has been playing an important role in transforming the Gujarat power sector in terms of its adequate generation capacity, financial sustainability, robust organizational structure and above all its forward looking dynamism.

The year under this report was significant for the Commission from many perspectives. During the year, the Commission took several initiatives so as to give regulatory certainty and consistency to all stakeholders by making amendments in its important regulations like Supply Code & Tariff Regulations based on its experience and detailed analysis, interaction and consultation with utilities and consumers. Similarly, new regulations were made public to promote generation from Renewable energy, its tariff & its connectivity with the grid and ensuring grid discipline. These were Net Metering Regulations for solar roof top, Generic tariff orders for Wind with an enabling provision for competitive bidding, Small Hydro and Waste to Energy projects. Further, to accommodate large scale integration of wind and Solar generation in the grid without compromising grid security, draft Regulations for Forecasting and scheduling of Solar and Wind generation was made. The Commission has also assigned a study to find out the potential of Biomass and Bagasse base energy projects in the State and its market including price so as to work out a balanced generic tariff for these projects. The Commission is consistently encouraging the utilities to undertake activities in the fields of Smart Grid and Demand Side Management to reap the benefits of the modern technologies. The Commission has also approved licensee's "Domestic Efficient Lighting Programme" in the State which resulted in distribution of highest number of LED Lamps in the country. The Commission has shown its concern to address present environmental issues by promoting generation from Renewable Sources of Energy and issued necessary orders specifying the Renewable Power Purchase Obligation (RPPO) targets for the distribution licensees.

GERC is one of the few Commissions in the country who has been issuing regularly and timely tariff orders enabling the Utilities to maintain sound financial position. As a result, the Utilities with their sound financial health have also been making huge investment in creating new assets and strengthening existing infrastructure so as to provide consistent & quality power to their consumers. Due to regular monitoring by the Commission and actions taken by the distribution companies to reduce the losses, the AT&C losses of the distribution companies in the State have been amongst the lowest in the country. The Commission also monitors their performance against the targets set in the Standard of Performance Regulations regularly. This encourages the Utilities to ensure timely actions to achieve their target. It is a matter of great pride that the State owned DISCOMs have been consistently rated as "A+" by the Ministry of Power.



The consumer's interest has always been a priority for the Commission. GERC has taken all necessary steps to redress the grievances of electricity consumers through independent Ombudsman and Consumer Redressal Forums in timely manner. To create a healthy & conducive atmosphere in electricity sector, the Commission follows the consultative process, frequent interactions on various issues with the representatives of consumer organizations, industry associations, individuals representing prominent citizens, sector experts and utilities through the meetings of State Advisory Committee, Coordination Forum from time to time.

The Commission understands that performing efficiently in time bound manner is only possible when its staff is technically qualified and work in a professional manner. Accordingly, all officers and staff of the Commission are being imparted training continuously on various emerging issues. In the same manner, the Commission encourages utilities and others to impart capacity building and skill development Programme for its staff.

I am confident, the Electricity Sector in the State of Gujarat will keep growing and perform efficiently so as to serve its consumers more effectively. It is our endeavor to act as a facilitator in making Gujarat Power Sector as a role model in the country, I present the 18th Annual Report of the Commission for FY 2016-17.

Sd/-
Anand Kumar
Chairman



ACTIVITY HIGHLIGHTS OF 2016-17

Determination of Tariff :

True up for FY 2015-16 and determination of tariff for FY 2017-18

During the year, the Commission issued Tariff Orders comprising of truing up for FY 2015-16 and determination of tariff for FY 2017-18 for 12 utilities operating in the State;

Disposal of Petitions & Misc. Applications:-

The Commission has disposed of 37 petitions during the financial year 2016-17 and No license application was received during Financial Year 2016-17.

Meetings :-

- **State Advisory Committee** : 23rd Meeting on 23rd January, 2017 at GIFT City, Gandhinagar
- **State Co-Ordination Form** : 17th Meeting on 27th May, 2016 at GIFT City, Gandhinagar
18th Meeting on 25th January, 2017 at Conference Room, Circuit House, Rajkot
- **Meeting on CGRFs** : 21st Meeting on 19th May, 2016 at GIFT City, Gandhinagar

Regulations :- During the year, the Commission issued following Regulations FY 2016-17

- The GERC (Regulations for Net Metering Rooftop Solar PV Grid Interactive Systems) Notification No.5 of 2016
- The GERC (Electricity Supply Code and Related Matters)(First Amendment) Regulation,2016 Notification No. 6 of 2016.
- The GERC (Multi-Year Tariff) (First Amendment) Regulations, 2016 Notification No. 7 of 2016



1. ORGANIZATIONAL SET-UP OF THE COMMISSION

1.1 THE COMMISSION

Shri Anandkumar took oath as a Chairman, GERC on 5th April, 2016. Shri K. M. Shringarpure and Shri P. J. Thakkar rendered their services as Member of GERC. Shri Roopwant Singh, (IAS) was Secretary of the Commission during the year.

OFFICE OF THE COMMISSION

1.2 INFRASTRUCTURE

Office Building: The Commission has its own office premises in GIFT City at 6th Floor, GIFT One, Road 5C, Zone 5, GIFT City, Gandhinagar-382355 with appropriate Conference Room, Court Room for conducting hearing facilities to conduct its business. To facilitate better working conditions and larger court room facilities.

Local Area Network (LAN) and Website Hosting: The computer systems in the Commission's office are connected through Local Area Network (LAN). The system is useful for access to any reference information. The Commission has its own redesigned website www.gercin.org which is regularly maintained and updated by its Secretariat.

The website is used for announcing hearing schedules, news, Agenda, Meeting and its Minutes updates, issuing orders and inviting comments on concept papers, regulations and petitions. It also provides information on Consumer Grievances Redressal Forums and Ombudsman and guides consumers for Redressal of their grievances. Further, documents such as notified regulations, orders, reports and details regarding Right to Information Act 2005 are also available in downloadable formats on the website.



1.3 COMMISSION STAFF

The staff of the Commission is appointed through direct recruitment, contract or on deputation basis. Annexure 1 shows the staff position in the Commission while Annexure 2 shows the organizational chart. The details of officers and staff of the Commission (as on 31st March, 2017) are given below: -

Sr.No.	Name of the Employee	Designation
1	Shri Roopwant Singh, IAS	Secretary
2	Shri S. R. Pandey	Legal Advisor
3	Shri D. R. Parmar	Joint Director (Tariff)
4	Shri S.T. Anada	Joint Director (Technical)
5	Shri P. J. Jani	Deputy Director (Legal) and I/c Accounts Officer
6	Shri Kanti J. Bhuva	Deputy Director (Tech)
7	Shri Apurva Adhvaryu	Deputy Director (Tariff)
8	Shri Jignesh Makwana	Executive
9	Smt. Kajal B. Chaudhari	Executive
10	Shri Umesh A. Gor	Executive
11	Shri Abhishek Makwana	Executive
12	Shri Santoshkumar Asipu	Executive
13	Shri Wasim Akhtar Ansari	Executive
14	Shri Rupesh G. Jadav	Executive
15	Shri Ruchik Sola	Executive
16	Shri Ketan Thanki	Executive
17	Shabana Basirbhai Dal	Executive
18	Shri P.R.Sasi	Personal Assistant
19	Shri R.G.Pillai	Personal Assistant
20	Smt P.A. Christian	Personal Assistant
21	Shri P.S. Mistri	Personal Assistant
22	Smt. Hetal Ketan Thanki	Receptionist-Cum-Clerk

- In addition, there are five Driver-Cum-Attendants and four Peons in the Commission.



2. ROLE OF THE COMMISSION

2.1 THE MANDATE

The Electricity Act, 2003, aims at consolidating the laws related to generation, transmission, distribution, trading and use of electricity; generally taking measures conducive to development of the electricity industry, promoting competition therein, protecting interest of consumers, ensuring supply of electricity to all areas, rationalisation of electricity tariff, ensuring transparent policies regarding subsidies, promotion of efficient and environmentally benign policies, constitution of the Central Electricity Authority, Regulatory Commissions and establishment of Appellate Tribunal for electricity. It also aims to create an enabling framework conducive to development of the power sector in an open, non-discriminatory, competitive, market driven environment; keeping in view the interest of consumers, as well as power suppliers. In this context, the role of the Commission is pivotal in order to realise the objectives envisaged in the Electricity Act.

2.2 THE FUNCTIONS

According to section 86 of the Electricity Act, 2003 the Commission is mandated to carry out the following functions:

- a) Determining the tariff for generation, supply, transmission, distribution and wheeling of electricity, wholesale, bulk or retail, as the case may be, within the state; provided that Where open access has been permitted to a category of consumers under section 42, the State Commission determines only the wheeling charge and surcharge thereon, if any, for the said category of consumers;
- b) Regulating the electricity purchase and procurement process of distribution licensees, including the price at which electricity is to be procured from the generating companies or licensees or other sources, through agreements for purchase of power for distribution and supply within the state;
- c) Facilitating intra-state transmission and wheeling of electricity;
- d) Issuing licenses to persons seeking to act as transmission licensees, distribution licensees and electricity traders; with respect to their operations within the state;
- e) Promoting cogeneration and generation of electricity from renewable sources of energy by providing suitable measures for connectivity with the grid and sale of electricity to any person, and also specifying, for purchase of electricity from such sources, a percentage of the total consumption of electricity in the area of a distribution licence;
- f) Adjudicating upon disputes between licensees and generating companies and to refer any dispute for arbitration;



- g) Levying fee for the purposes of the Act;
- h) Specifying state grid code, consistent with the grid code specified by the Central Electricity Regulatory Commission under clause (h), sub-section (1) of section 79 of the Act;
- i) Specifying or enforcing standards with respect to quality, continuity and reliability of service by licensees;
- j) Fixing the trading margin in the intra-state trading of electricity, if considered, necessary;
- k) Discharging other such functions as may be assigned to it under the Act;

2.3 Regulations

The Commission has so far issued 41 regulations /notifications/orders by publishing new ones or superseding old ones or making amendments as detailed in Annexure-4.



3. ACTIVITIES DURING THE FINANCIAL YEAR 2016-17

3.1 Determination of Tariff

During the year, the Commission issued Multi-Year Tariff Orders, comprising truing up for FY 2015-16, based on GERC (MYT) Regulations, 2011 and approval of final ARR for FY 2016-17, approval of Multi Year ARR for FY 2016-17 to FY 2020-21 and determination of tariff for FY 2017-18 as per GERC (MYT) Regulations, 2016 for the below listed utilities operating in the state:

1. Gujarat State Electricity Corporation Ltd. (GSECL)- The State Generating Company
2. Gujarat Energy Transmission Corporation Ltd. (GETCO)- The State Transmission Company
3. State Load Dispatch Centre (SLDC)
4. Dakshin Gujarat Vij Company Ltd (DGVCL) - The Distribution Company for South Gujarat,
5. Madhya Gujarat Vij Company Ltd (MGVCL) - The Distribution Company for Central Gujarat,
6. Paschim Gujarat Vij Company Ltd (PGVCL) - The Distribution Company for Western Gujarat,
7. Uttar Gujarat Vij Company Ltd (UGVCL) - The Distribution Company for North Gujarat,
8. MPSEZ Utilities Private Limited (MUPL) - The Private owned distribution entity for Mundra SEZ area.

Some of the important aspects of the proceedings in the aforementioned Multi-Year Tariff Orders are shown in the below table:

Name of Utility	Filing Date	Date of Registration & Case No.	Suggestions/ Objection From number of stake holders	Public hearing date	Issuance of tariff order
GSECL	30.11.2016	03.12.2016 & 1619/2016	6	08.02.2017	31.03.2017
GETCO	30.11.2016	03.12.2016 & 1620/2016	5	08.02.2017 & 14.02.2017	31.03.2017
SLDC	30.11.2016	03.12.2016 & 1621/2016	3	08.02.2017 & 14.02.2017	31.03.2017
DGVCL	30.11.2016	03.12.2016 & 1623/2016	18	09.02.2017 & 14.02.2017	31.03.2017
MGVCL	30.11.2016	03.12.2016 & 1624/2016	19	09.02.2017 & 14.02.2017	31.03.2017
PGVCL	30.11.2016	03.12.2016 & 1625/2016	26	09.02.2017 & 14.02.2017	31.03.2017
UGVCL	30.11.2016	03.12.2016 & 1622/2016	20	09.02.2017 & 14.02.2017	31.03.2017
MUPL	14.12.2016	17.12.2016 & 1631/2016	2	08.02.2017 & 14.02.2017	31.03.2017

**Performance of GSECL during FY 2014-15**

- Electricity generation from the power plants of GSECL was 21322 MUs against the approved generation of 41641 MUs in the MYT order 11th April, 2011 and in Case No. 1374/2013 dated 29th April, 2014.

The highlights of the Multi-Year Tariff Orders are detailed below:

(A) Gujarat State Electricity Corporation Ltd. (GSECL)

GSECL is the state owned generation company of the Gujarat and one of the main sources of electricity for the Distribution licensees in the state.

Performance of GSECL during FY 2015-16

The electricity generation from the power plants of GSECL was 17404.2 MUs against the approved generation of 28607 MUs of the MYT order dated 11.04.2011. The performance of GSECL with respect to some important operating parameters are tabled below:

Operating Parameters	Performance (Actual in Truing up vis-à-vis Approved in MYT Order dated 11.04.2011)
Plant Availability Factor (PAF)	Lower for Ukai, G'Nagar (1-4), KLTPS, Utran Ext. & Sikka (3-4) as compared to approved in MYT order.
Plant Load Factor (PLF)	All stations had lower PLF as compared to approved in MYT order.
Auxiliary Consumption	Higher for all stations except Ukai hydro & Utran Ext. as compared to approved in MYT order.
Station Heat Rate	Higher for Ukai-VI, G'Nagar-V, Wanakbori, Dhruvaran-I&II & Sikka (3-4) as compared to approved in MYT order.
Secondary Fuel Oil Consumption	Lower for all stations except KLTPS (1-3) & Sikka (3-4) as compared to approved in MYT order.
Transit Loss	Lower for all stations except Ukai (I-V) as compared to approved in MYT order.

True up of FY 2015-16

While truing up for the year FY 2015-16, the various components of ARR were compared with the approved figures as per the MYT order vide case no. 1061/2011 dated 11th April, 2011. The Commission computed the gains and losses for FY 2015-16 based on Truing up for each of the components. Excluding the PPA based stations, the Commission approved the revised ARR of Rs. 1642.53 Cr. for FY 2015-16 compared to approved ARR of ₹. 1674.47 Cr in the Case no. 1061 of 2011 dated 11th April, 2011. The Commission approved the net gain of ₹. 23.52 Crore in the Truing up for FY 2015-16. Further, this net gain of ₹. 23.52 Crore approved was to be passed on to the DISOCs in 12 equal monthly installments through GUVNL.

**Approval of Multi-Year ARR for FY 2016-17 to FY 2020-21**

In addition to the existing installed capacity of 6394 MW, GSECL planned to decommission few units due to completion of useful life as well as projected the future capacity addition. The details of decommissioned units as well as future capacity additions are given in the below table;

Sr. No	Name of the Units/Projects	Capacity (MW)	Decommissioning/Commissioning Schedule
Details of Decommissioned Units			
1	Ukai (1-2)	240	31 st March, 2018
2	G'Nagar (1-2)	240	3 rd September, 2018
3	Sikka (1-2)	240	31 st March, 2018
4	Utran	135	22 nd January, 2017
Future Capacity Additions			
1	Wanakbori 8	800	2018-19
2	Dhruvaran STPS	1600	2020-21

Various performance parameters viz. PAF, PLF, Auxiliary Consumption, SHR, Secondary Fuel Oil Consumption & Transit loss of GSECL Stations for each year of the control period has been approved by the Commission as per MYT Regulations, 2016.

Electricity generation from the stations of GSECL for each year of the control period approved by the Commission is shown in the table below:

Approved Generation for GSECL Stations (Mus)

FY 2016-17	FY 2017-18	FY 2018-19	FY 2019-20	FY 2020-21
22,229	26,681	30,205	29,850	41,791

The Commission approved fuel cost against that projected by GSECL for all the stations, for each year of the control period is shown in the table below:

Projected and approved fuel cost for the stations of GSECL (in ₹. Crore)

Financial Year	FY 2016-17	FY 2017-18	FY 2018-19	FY 2019-20	FY 2020-21
Projected by GSECL	6848	8462	9500	9588	13143
Approved by the Commission	5933	7054	7998	7886	11182

For each year of the control period, the Commission decided the energy charges for each of the generating stations of GSECL.

The Commission approved of fixed charges against those projected by GSECL for each year of the control period, as under:

**Projected and approved fixed charges for the stations of GSECL (in ₹. Crore)**

Financial Year	FY 2016-17	FY 2017-18	FY 2018-19	FY 2019-20	FY 2020-21
Projected by GSECL	4056	4081	4234	4686	5987
Approved by the Commission	3701	3549	3942	4365	5671

The Commission directed GSECL to reduce the fuel cost by making efforts to obtain maximum quantity of coal from western coal fields for saving on freight charges. GSECL was directed to negotiate with GMDC for reduction in lignite coal prices and to optimize the existing Fuel Supply Agreement (FSA) and submit detailed reports on existing FSA covering take or pay liabilities, practice for procurement of imported coal and action required for optimization of FSA. Further, GSECL was directed to submit a prior intimation to the Commission with proper justification for any variation of more than 10% between approved and actual CAPEX.

(B) Gujarat Energy Transmission Corporation Ltd. (GETCO)

GETCO is the state transmission utility owning and operating the main EHV network in the state.

Performance of GETCO during FY 2015-16

In FY 2015-16, GETCO performed well by keeping its system availability higher and system losses at lower level than those approved by the Commission. Availability of GETCO system remained at 99.42% against 98.00% approved in the MTR order dated 29th April, 2014 for FY 2015-16. GETCO controlled the system losses at 3.68% against the loss level of 4.10 % approved by the Commission in the MTR/MYT order.

True up of 2015-16:

While truing up for the year 2015-16, the various components of ARR and the actual revenue were compared with the approved figures as per the MTR order vide case no. 1341/2013 dated 29th April, 2014. The Commission computed the gains and losses for FY 2015-16 based on Truing up for each of the components. The Commission approved the revised ARR of ₹. 2721.01 Crore for 2015-16 compared to ARR of ₹. 2770.67 Crore approved in the MTR order dated 29th April, 2014. Further, due to the effect of the consequential order of Hon'ble APTEL dated 03.01.2017, the Commission arrived at a gap of ₹. 10.85 Crore in 2015-16.

Approval of Multi-Year ARR for FY 2016-17 to FY 2020-21

Transmission System for the Control Period FY 2016-17 to FY 2020-21 and Transmission Lines planned for FY 2016-17 to FY 2020-21:



Financial Year	2016-17	2017-18	2018-19	2019-20	2020-21	Total
Total lines in KMs	2600	2716	2829	2809	2887	13841
Total substations						
planned in numbers	100	100	80	80	80	440
Expected total loading on the						
GETCO in MW GSECL Plants	5559	5127	5881	5881	7387	29835
IPPs	6554	6554	5918	5918	5918	30862
Share from Central Sector	5347	6126	6329	6663	6731	31196
CPP Wheeling	279	279	279	279	279	1395
Wind Farm Capacity	4333	4733	5133	5533	5933	25665
Solar Project	1277	1477	1727	1977	2227	8685
Mini Hydel Project	9	88	88	88	88	361
Bagasse Project	41	41	41	41	41	205
Total Loading in MW	23399	24425	25396	26379	28605	128204
GETCO System Availability in %	99.49%	99.50%	99.51%	99.51%	99.52%	-
Transmission loss (%)	3.85%	3.80%	3.85%	3.80%	3.85%	-

Looking to the projected capacity addition and transmission planning during FY 2016-17 to 2020-21, the Commission approved the capital expenditure as under:

Projected and approved capital expenditure of GETCO (in ₹. Crore)

Financial Year	FY 2016-17	FY 2017-18	FY 2018-19	FY 2019-20	FY 2020-21
Projected by GETCO	2019	2074	2202	2271	2385
Approved by the Commission	1754	1801	1911	1971	2069

The Commission approved Aggregate Revenue Requirement (ARR) against those projected by GETCO are as under:

Projected and approved ARR of GETCO (in ₹. Crore)

Financial Year	FY 2016-17	FY 2017-18	FY 2018-19	FY 2019-20	FY 2020-21
Projected by GETCO	3198	3594	4008	4437	4891
Approved by the Commission	3058	3397	3749	4115	4502

Determination of transmission tariff for FY 2017-18

The Commission approved ARR of ₹. 3396.55 Crore for GETCO for FY 2017-18 against of ₹. 3594.27 Crore as projected by GETCO. Based on this approved ARR of FY 2017-18 and truing up of FY 2015-16, the approved Transmission Tariff against that estimated by GETCO for 2017-18 are as under



Particulars	Transmission Tariff	Transmission Tariff
	Projected by	approved by the
	GETCO	Commission.
Transmission tariff		
₹. /MW/day	4488	3822

Further, the Commission approved the transmission charges payable in the case of short-term collective transactions through power exchanges as 33.25 Paise/Unit.

The Commission directed GETCO to adhere to the approved CAPEX and keep the variation at minimum for the approved CAPEX. GETCO was also directed to have prior concurrence of the Commission for any deviation in capitalization across voltage classes/schemes and also incurring

(C) State Load Dispatch Centre (SLDC)

SLDC has been constituted as per Electricity Act, 2003 and is the apex body to ensure the integrated operation of the power system grid in the state.

Truing up of 2015-16:

While truing up for the year 2015-16, the Commission approved the revised ARR of ₹. 3056.02 lakh (including the revenue gap of FY 2013-14 as per the order dated 14.03.2016 of Hon'ble APTEL in Appeal No. 146 of 2015) compared to ARR of ₹. 3047.09 lakh approved in the MTR order 29th April, 2014 for FY 2015-16 read with Review Order 1438/2014 dated 7th November, 2014. Based on the revenue from SLDC Fees and charges, the Commission approved the revenue gap of ₹. 1978.00 lakh in the truing up for FY 2015-16.

Approval of Multi-Year ARR for FY 2016-17 to FY 2020-21

The Commission approved Aggregate Revenue Requirement (ARR) against those projected by SLDC are as under:

Projected and approved ARR of SLDC (in ₹. Lakh)

Financial Year	FY 2016-17	FY 2017-18	FY 2018-19	FY 2019-20	FY 2020-21
Projected by SLDC	1798	2142	2512	2654	2481
Approved by the Commission	1185	1258	1559	1633	1554

Determination of SLDC fees and charges for FY 2017-18

The Commission approved ARR of ₹. 1258.01 Lakh for FY 2017-18. Based on this approved ARR of FY 2017-18 and the adjustment on accounting of truing up for FY 2015-16, the Commission approved the annual charges of SLDC at ₹. 3236.01 Lakh for FY 2017-18, and the grid connection fees at ₹. 10,000/-. The total annual SLDC Charges shall be recovered in 12 equal monthly instalments according to the formula approved by the Commission in the order dated 28th March, 2013.



(D,E,F,G) State Owned Distribution Companies - DISCOMs (DGVCL, MGVL, PGVCL and UGVCL)

The four state owned distribution companies were entrusted with the task of distributing power in four different regions (south, central, west and north) of the state.

Performance of DISCOMs during FY 2015-16

Approved vis-à-vis Actual Distribution Losses of the four distribution companies in FY 2015-16 is shown in the Table below:

Distribution Losses: Approved vis-à-vis Actual (in %)

Name of Discoms	Approved Losses as per MTR Order dated 24.04.2014	Actual Loss
DGVCL	11.50	9.58
MGVCL	12.00	11.64
PGVCL	23.00	24.73
UGVCL	12.00	11.13

It is observed that all the DISCOMs except PGVCL achieved the targeted distribution losses (Approved vis-a-vis Actuals).

Truing up of 2015-16:

While truing up for the FY 2015-16 for each DISCOMs, the various components of ARR were compared with the approved figures as per MTR order dated 29th April, 2014. The Commission computed the gains and losses for FY 2015-16 based on truing up for each of the components. The revised ARR approved in true up of FY 2015-16 (including Surplus/(Gap) of True-Up for FY 2013-14) and ARR approved in the MTR order dated 29th April, 2014 is shown in the Table below:

ARR Approved (₹. Crore)

Name of DISCOM	ARR Approved for FY 2014-15 in MYT order dated 29.04.2014	ARR Approved in True Up of FY 2015-16
DGVCL	8026.45	11040.06
MGVCL	4625.80	5192.15
PGVCL	10613.80	12185.39
UGVCL	8008.83	8997.79

The revenue (Gap)/Surplus for FY 2015-16 approved by the Commission, after considering the (Gap)/Surplus of True -Up for FY 2013-14, as shown in the Table below:



Revenue (Gap)/Surplus for FY 2015-16 (₹. Crore)

Name of Discom	Revenue (Gap)/surplus
DGVCL	(165.74)
MGVCL	(47.23)
PGVCL	(299.94)
UGVCL	(282.83)

The Commission decided to adjust the amount of ₹. 102.24 Crore, which was Profit After Tax in P&L Statement of the Annual Accounts of GUVNL for FY 2015-16 and also non-consideration of power purchase cost of an amount of ₹. 1916 Crore on account of litigation. Further, the Commission addressed a gap amount of ₹. 431.10 Crore towards previous years' gap as determined in the various tariff orders of DISCOMs. Accordingly, the Commission arrived ₹. 791 Crore against the consolidated revenue gap of ₹. 1051 Crore as claimed by them and addressed this amount while determining the tariff for FY 2017-18.

Approval of Multi-Year ARR for FY 2016-17 to FY 2020-21

Energy sales approved by the Commission for each DISCOM, for each year of the 3rd control period are shown in the table below:

Energy sales approved for the control period FY 2016-17 to FY 2020-21 (Mus)

Name of DISCOM	FY 2016-17	FY 2017-18	FY 2018-19	FY 2019-20	FY 2020-21
DGVCL	16925	17843	18831	19895	21041
MGVCL	8867	9372	9900	10452	11032
PGVCL	22395	23661	24992	26391	27864
UGVCL	18081	18946	19836	20752	21698

Distribution loss trajectory approved by the Commission for each DISCOM, for each year of the control period is shown in the table below:

Distribution losses approved for the control period FY 2016-17 to FY 2020-21 (%)

Name of DISCOM	FY 2016-17	FY 2017-18	FY 2018-19	FY 2019-20	FY 2020-21
DGVCL	10.00	10.00	10.00	9.90	9.80
MGVCL	11.75	11.70	11.65	11.60	11.55
PGVCL	22.00	21.00	20.00	19.50	19.00
UGVCL	10.00	9.90	9.80	9.70	9.60

The Commission approved Aggregate Revenue Requirement (ARR) against those projected by four DISCOMs are as under:



Projected and approved ARR of four DISCOMs (₹. Crore)

Name of DISCOM	FY 2016-17		FY 2017-18		FY 2018-19		FY 2019-20		FY 2020-21	
	Proj.	Appr.	Proj.	Appr.	Proj.	Appr.	Proj.	Appr.	Proj.	Appr.
DGVCL	11034	10986	11886	11755	12631	12491	13373	13240	14466	14310
MGVCL	5420	5394	5890	5819	6299	6224	6704	6632	7294	7210
PGVCL	12180	12106	13341	13141	14319	14104	15272	15067	16731	16485
UGVCL	9298	9228	9970	9831	10513	10366	11018	10880	11850	11689

Determination of tariff for FY 2017-18

For the sales revenue calculations, the Commission applied the existing tariff with FPPPA charges of ₹. 1.43 per kWh to the total category-wise sales, as approved in these Orders. By this, the Commission arrived at the consolidated (Gap)/Surplus of the four state owned distribution licensees for FY 2017-18 as ₹. 655.45 Crore. The (Gap)/Surplus as estimated by the Commission for FY 2017-18 for each DISCOMs as shown in the below table:

Revenue (Gap)/Surplus for FY 2017-18 (₹. Crore)

Name of Discom	Revenue (Gap)/surplus
DGVCL	183.44
MGVCL	141.90
PGVCL	238.24
UGVCL	91.87

The main reason for resultant surplus of ₹. 655 Crore is due to non-consideration of provision of ₹. 1916 Crore against procurement of power reflected in the audited accounts of GUVNL for FY 2015-16. Further, while projecting employee cost for the MYT control period, the impact of wage revision due to 7th CPC implementation is not factored in. In view of the above and in order to avoid future tariff shock, the Commission decided not to modify the existing tariff rates of retail consumers for FY 2017-18.

Commission's directives to the DISCOMs

The Commission directed DISCOMs to submit action plan for replacement of defective meters and initiate efforts for reduction in fixed cost liability related to stranded generating stations due to non availability of fuel or costly fuel by renegotiation of PPAs.

(H) MPSEZ Utilities P. Ltd. (MUPL)

MUPL is a deemed licensee for distribution of electricity in the Mundra SEZ area.

Performance of MUPL during FY 2015-16

MUPL reported distribution losses of 4.17 % in FY 2015-16 against 4.50% as approved in the MTR Order dated 29.05.2014.



True up of FY 2015-16

While truing up for the year 2015-16, the various components of ARR were compared with the approved figures as per MTR order for FY 2015-16. The Commission computed the gains and losses for FY 2015-16 based on truing up for each of the components. Revised ARR approved by the Commission after true-up and ARR approved in the MTR order for MUPL is shown in the Table below:

ARR Approved (₹. Crore)

Particular	ARR Approved for FY 2015-16 in MTR order	ARR Approved in True Up FY 2015-16
MUPL	171.59	121.44

The Commission approved the trued up gap of FY 2015-16 as ₹. 5.42 Crore against ₹. 5.56 Crore gap claimed by MUPL. This trued up gap was considered by the Commission for determination of tariff for FY 2017-18.

Approval of Multi-Year ARR for FY 2016-17 to FY 2020-21

Energy sales approved by the Commission for MUPL, for each year of the 3rd control period are shown in the table below:

Energy sales approved for the control period FY 2016-17 to FY 2020-21 (Mus)

Year	FY 2016-17	FY 2017-18	FY 2018-19	FY 2019-20	FY 2020-21
MUPL	231.63	389.14	539.07	615.03	634.12

Distribution loss trajectory approved by the Commission for MUPL, for each year of the control period is shown in the table below:

Distribution losses approved for the control period FY 2016-17 to FY 2020-21 (%)

Year	FY 2016-17	FY 2017-18	FY 2018-19	FY 2019-20	FY 2020-21
MUPL	4.00	4.00	4.00	4.00	4.00

The Commission approved Aggregate Revenue Requirement (ARR) against those projected by four DISCOMs are as under:

Projected and approved ARR of MUPL (in ₹. Crore)

Name of	FY 2016-17		FY 2017-18		FY 2018-19		FY 2019-20		FY 2020-21	
DISCOM	Proj.	Appr.	Proj.	Appr.	Proj.	Appr.	Proj.	Appr.	Proj.	Appr.
MUPL	136.64	136.26	199.96	189.39	277.47	253.45	318.03	283.61	337.28	297.94



Determination of tariff for FY 2017-18

The Commission approved ARR for FY 2017-18 as ₹. 189.39 Crore. The Commission considered the total category-wise sales, as approved in these Orders and computed the sales revenue by applying the existing tariff along with the approved sales for each category of consumers. Accordingly, the Commission arrived at the consolidated surplus of MUPL for FY 2017-18 as ₹. 5.62 Crore. The Commission decided not to change the existing tariffs.

MUPL was directed to negotiate with the lenders for reduction in the rate of interest on the borrowings failing which they should replace high cost debt with low cost debt.

3.2 STATUS IN THE CONTEXT OF THE NATIONAL ELECTRICITY POLICY

3.2.1 Metering Plans:

The Electricity Act 2003 stipulates that all consumers should be metered. As per the National Electricity Policy, the SERCs have to obtain from the Distribution Licensees their metering plans, approve these and monitor the same. The Commission had directed all the Distribution Licensees to submit their metering plans. In their response, the distribution licensees have submitted that all the connections are metered except the Agriculture connections.

Metering status of Agriculture consumers for FY 2016-17 is as under:

Sr. No	Distribution Licensee	Metered Agriculture Connections
1	DGVCL	73.06%
2	MGVCL	84.80%
3	PGVCL	76.87%
4	UGVCL	54.92%
5	TPL (Ahmedabad)	100.00%
6	TPL (Surat)	100.00%

The Commission has directed to improve the status of metering of agricultural consumers.

3.2.2 Implementation of HVDS, SCADA & Data Base Management:

SCADA and data management systems are useful for efficient working of Distribution Systems. As per the NEP, a time bound programme for implementation of SCADA and data management is to be obtained from Distribution Licensees and approved by the SERCs keeping in view the techno economic considerations.

Implementation on SCADA has been started by the Distribution Licensees. HVDS implementation has already been taken up in MGVCL, UGVCL, DGVCL and PGVCL for effective reduction in losses.



3.2.3 Norms for Standard of Performance:

As per the provisions of the National Electricity Policy, the Commission has to specify the expected Standards of Performance. The Appropriate Commission has to regulate utilities based on pre determined indices on quality of power supply.

The Commission, vide notification No. 10 of 2005 dated 31/03/2005, specified the performance standards for distribution licensees in the state. The Commission reviews the performance of various DISCOMs against the standards prescribed in above notification. The Commission obtains quarterly reports, half yearly and annual reports with details required under provisions of the SoP regulations for the Distribution.

3.2.4 Setting up of CGR Forum and Ombudsman:

National Electricity Policy emphasizes to formulate guidelines regarding setting up of Consumer Grievance Redressal Forum (CGRF) by the licensees and appointment of Ombudsman.

The Electricity Act, 2003 provides for a comprehensive framework for protection of consumers' interests. The National Electricity Policy, framed under the Act, advises states to notify guidelines / regulations for the establishment of a forum and ombudsman. Accordingly, GERC notified the regulations for establishment of an Ombudsman and establishment of a Forum for Redressal of Grievances of Consumers on 25th Aug. 2004. With the passage of time and looking interest of consumers at large, the Commission has framed a new set of comprehensive and consolidated regulations for establishment of CGRF and Ombudsman. The aim is to make forum more independent and easily accessible to the consumers and resolve grievances in giving effect of provisions of existing regulations. The Commission notified on 07.04.2011 as Gujarat Electricity Regulatory Commission (Consumer Grievances Redressal Forum and Ombudsman) Regulations, 2011, which repealed the above mentioned regulation.

There are eight Consumer Grievance Redressal Forums (CGRFs) functioning in the state of Gujarat. For every CGRF, one independent member has been selected by the Commission. The Commission has appointed an independent Electricity Ombudsman with effect from 01.06.2010 and he operates from an independent office. The Commission reviews the performance of Forums through quarterly reports and periodic review meetings. Two review meetings have been conducted by the Commission in this year. The special cases or grievances have also been discussed in these meetings.

The details of cases received and redressed by CGRFs and Ombudsman are shown in Annexure- 6 & 7 respectively and the nature of representation received by the Ombudsman is shown as Annexure-8.



3.3 STATUS IN THE CONTEXT OF TARIFF POLICY

3.3.1 Return on Equity:

The Tariff Policy envisages that SERCs should allow rate of return on equity keeping in view the assessment of overall risk and the prevalent cost of capital. The Commission allowed 14% RoE for FY 2016-17 for all the utilities in the State.

3.3.2 Depreciation Rates:

As per the Tariff Policy, the Central Commission notified the rate of depreciation which is also applicable to distribution with appropriate modifications. The Commission has considered the following depreciation rates.

Sr. No.	Licensee	Depreciation rates for FY 2016-17
1	GSECL	3.80%
2	GETCO	4.87%
3	DGVCL	5.34%
4	MGVCL	5.50%
5	PGVCL	5.25%
6	UGVCL	4.72%
7	SLDC	14.52%
8	TPL (Generation)	-
9	TPL (Ahmedabad)	-
10	TPL (Surat)	-
11	MUPL	-
12	TEL-Dahej	-
13	AIL	-
14	KPT	-

3.3.3 ToD Tariff:

Tariff Policy provides for facilitating implementation of Time of Day (ToD) tariffs.

Time of Use Tariff is in practice since long in Gujarat. There is separate tariff applicable for LT consumers whose contract demand is above 40 kW and for HT consumers contracted for regular power supply of 100 kVA & above, using electricity exclusively during night hours from 10.00 PM to 06.00 AM next day.

Moreover, time of use tariff is applicable to Water Works category of LT tariff. In HT category, except HT Agriculture and Railway Traction tariff category all other HT category gets the benefit of time of use tariff.



ToD Tariff rates as applicable to DGVCL, MGVCL, PGVCL & UGVCL with respect to Tariff Orders dated 31st March, 2015 are tabulated below;

Peak Hour Timings : 0700 hrs to 1100 hrs and 1800 hrs to 2200 hrs
 Off Peak Hour Timings : 1100 hrs to 1800 hrs
 Night Hours : 2200 hrs to 0600 hrs next day

Consumer Category	Peak Tariff Paise/kWh	Off-Peak Tariff Paise/kWh
Rate LTMD-Night: This tariff is applicable for aggregate load above 40 kW and using electricity exclusively during night hours from 10.00 PM to 06.00 AM next day.	460	260
Rate Non-RGP- Night: This tariff is applicable for aggregate load up to 40 kW and using electricity exclusively during night hours from 10:00 PM to 06:00 AM next day.	If electricity utilized for the period other than night hours, then tariff of relevant slab of Non -RGP category shall apply	260
Type-I Water works and sewerage pumps operated by other than local authority.	430	Discount of 40Paise kwh for consumption during off-peak period, viz., 1100 Hrs to 1800 Hrs. & Discount of 85 Paise/ kWh for consumption during night hours, viz., 2200 Hrs to 0600 Hrs. next day for all water works category.
Type-II Water works and sewerage pumps operated by local authority such as Municipal Corporation. Gujarat Water Supply & Sewerage Board located outside Gram Panchayat Area.	410	
Type-III Water works and sewerage pumps operated by Municipalities/Nagarpalikas and Gram Panchayat or Gujarat Water Supply & Sewerage Board for its installations located in Gram Panchayats.	320	
Rate HTP - I and II: regular supply with CD or Actual demand for first 500 kVA of billing demand	445 (for HTP-I) 480 (for HTP-II)	400 (for HTP-I) 435 (for HTP-II)
Rate HTP - I and II: regular supply with CD or Actual demand for next 2000 kVA of billing demand	505 (for HTP-I) 540 (for HTP-II)	420 (for HTP-I) 455 (for HTP-II)
Rate HTP - I and II: regular supply with CD or Actual demand in excess of 2500 kVA	515 (for HTP-I) 550 (for HTP-II)	430 (for HTP-I) 465 (for HTP-II)
Rate HTP-III: supply of electricity at high voltage, contracting for not less than 100 kVA for temporary period	745	660
Rate HTP-IV: Supply of electricity to HT consumers opting to use electricity exclusively during night hours from 10.00 PM to 06.00 AM next day and contracted for regular power supply of 100 kVA and above.	If electricity utilized for the period other than night hours, then tariff of relevant slab of HTP I category shall apply	225



ToD Tariff rates as applicable to Torrent Power Ltd - Ahmedabad and Gandhinagar with respect to ariff Orders dated 31st March, 2016 is tabulated below;

RATE: HTMD-1

Applicable for supply of energy to High Tension consumers contracting for maximum demand of 100 kW and above for purposes other than pumping stations run by local authorities.

ENERGY CHARGE

i) First 400 units consumed per kW of Billing Demand per Month	445 Paise per unit
ii) Remaining Units consumed per Month	435 Paise per unit

TIME OF USE (TOU) CHARGE

For the Consumption during specified hours as mentioned here below :	
(i) For April to October period- 1200 Hrs. To 1700 Hrs. & 1830 Hrs. To 2130 Hrs.	
(ii) For November to March period- 0800 Hrs. To 1200 Hrs. & 1800 Hrs. To 2200 Hrs.	
(a) For Billing Demand up to 300 kW	80 Paise per unit
(b) For Billing Demand Above 300 kW	100 Paise per unit

NIGHT TIME CONCESSION

The energy consumed during night hours between 22.00 hours and 06.00 hours next day recorded by the tariff meter having built in feature of time segments, in excess of one third of total energy consumed during the month, shall be eligible for rebate at the rate of 60 Paise per KWH.

RATE: HTMD-2

Applicable for supply of energy to Water and Sewage Pumping Stations run by local authorities and contracting for maximum demand of 100 kW and above.

ENERGY CHARGE

A flat rate of	400 Paise per unit
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TIME OF USE (TOU) CHARGE

For the Consumption during specified hours as mentioned here below-	
i For April to October period-1200 Hrs. To 1700 Hrs. & 1830 Hrs. To 2130 Hrs.	60 Paise per unit
ii For November to March period-0800 Hrs. To 1200 Hrs. & 1800 Hrs. To 2200 Hrs.	

**NIGHT TIME CONCESSION**

The energy consumed during night hours between 22.00 hours and 06.00 hours next day recorded by the tariff meter having built in feature of time segments, in excess of one third of total energy consumed during the month, shall be eligible for rebate at the rate of 60 Paise per KWH.

RATE: HTMD-3

Applicable to a consumer taking supply of electricity at high voltage, contracting for not less than 100 kW for temporary period.

ENERGY CHARGE

A flat rate of	695 Paise per unit
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TIME OF USE (TOU) CHARGE

For the Consumption during specified hours as mentioned here below-	
(i) For April to October period-1200 Hrs. To 1700 Hrs. & 1830 Hrs. To 2130 Hrs.	60 Paise per unit
(ii) For November to March period-0800 Hrs. To 1200 Hrs. & 1800 Hrs. To 2200 Hrs.	

RATE: NTCT: NIGHT TIME CONCESSIONAL TARIFF

This is night time concessional tariff for consumers for regular power supply who opt to use electricity EXCLUSIVELY during night hours between 22.00 hours and 06.00 hours next day.

FIXED CHARGE

Fixed Charges	30% of the Demand Charges under relevant Tariff Category
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ENERGY CHARGE

A flat rate of	340 Paise per unit
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In case the consumer is not fulfilling the conditions of this tariff category, then such consumer for the relevant billing period will be billed under tariff category HTMD.

ToD Tariff rates as applicable to Torrent Power Ltd - Surat with respect to Tariff Orders dated 31st March, 2016 is tabulated below;

Rate HTMD-1

This tariff shall be applicable for supply of energy to consumers at 3.3 KV and above for contracting the demand of 100 KVA and above for purposes other than pumping stations run by Local Authorities.

**ENERGY CHARGES:**

i) First 400 units per kVA billing demand per month	480 Paise/unit
ii) Remaining units consumed per month	470 Paise/unit

PLUS**TIME OF USE CHARGE:**

For energy consumption during the two peak periods, viz., 0700 Hrs to 1100 Hrs and 1800 Hrs to 2200 Hrs.	
For billing demand up to 500 kVA	65 paise/unit
For billing demand above 500 kVA	100 paise/unit

NIGHT TIME CONCESSION

The energy consumed during night hours between 22.00 hours and 06.00 hours next day (recorded by the tariff meter operated through time switch or built in feature of time segments, if incorporated) as is in excess of one third of total energy consumed during the month, shall be eligible for concession of 60 Paise per KWH.

RATE: HTMD-2

This tariff shall be applicable for supply of energy at 3.3KV and above and contracting for demand of 100 KVA and above for water works and pumping stations run by Local Authorities.

ENERGY CHARGES:

i) First 400 units per kVA billing demand /month	475 Paise/unit
ii) Remaining units consumed /month	470 Paise/unit

PLUS**TIME OF USE CHARGES:**

For energy consumption during the two peak periods, viz., 0700 Hrs to 1100 Hrs and 1800 Hrs to 2200 Hrs.	
For billing demand up to 500 kVA	45 paise/unit
For billing demand above 500 kVA	80 paise/unit

NIGHT TIME CONCESSION

The energy consumed during night hours between 22.00 hours and 06.00 hours next day (recorded by the tariff meter operated through time switch or built in feature of time segments, if incorporated) as is in excess of one third of total energy consumed during the month, shall be eligible for concession of 60 Paise per KWH.

**RATE: HTMD-3**

Applicable to a consumer taking supply of electricity at high voltage, contracting for not less than 100 kVA for temporary period.

ENERGY CHARGE

A flat rate of	695 Paise per unit
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TIME OF USE (TOU) CHARGE

For energy consumption during the two peak periods, viz., 0700 Hrs to 1100 Hrs and 1800 Hrs to 2200 Hrs.	
For billing demand up to 500 kVA	45 paise/unit
For billing demand above 500 kVA	80 paise/unit

RATE: NTCT: NIGHT TIME CONCESSIONAL TARIFF

This is night time concessional tariff for consumers for regular power supply who opt to use electricity EXCLUSIVELY during night hours between 22.00 hours and 06.00 hours next day.

FIXED CHARGE

Fixed Charges	30% of the Demand Charges under relevant Tariff Category
---------------	--

ENERGY CHARGE

A flat rate of	340 Paise per unit
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In case the consumer is not fulfilling the conditions of this tariff category, then such consumer for the relevant billing period will be billed under tariff category HTMD.

3.3.4 FPPA Charges:

The Tariff Policy notified by the Government of India provides for speedy recovery of uncontrollable costs i.e. incremental fuel and power purchase costs so that future consumers are not burdened with past costs.

Appellate Tribunal for Electricity (APTEL) also, in its order dated 11th November, 2011 in OP NO.1 of 2011, directed that every State Commission must have in place a mechanism for Fuel and Power Purchase cost in term of Section 62(4) of the Act to compensate the distribution companies for the increase in cost of power procurement during the financial year.

Concept of recovery of Fuel and Power Purchase Adjustment (FPPA) charges on quarterly basis is in place in the State for state owned DISCOMs since 2004 and for TPL since 2007. The Commission had approved a formula for calculation of FPPA charges for State owned DISCOMs in its order dated 24th June, 2004 and for TPL vide Order 31st July, 2007. In the Case No. 1309/2013 and 1313/2013 dated 29th October, 2013 the Commission revisited and modified the FPPA formula for GUVNL and TPL as



the old formula was not adequate to address the variation in purchase of energy quantity from different sources. Due to this a huge amount was remaining unrecovered during the year and was reflecting as gap in the Truing up. Thus, to allow timely recovery of variation in power purchase cost, the Commission devised a more realistic FPPPA formula.

The Commission has directed distribution utilities to obtain approval of the commission if increase in FPPPA beyond ten (10) paise per kWh in a quarter compared to FPPPA charges in the previous quarter, prior to start billing to the consumers.

DISCOMs and TPL regularly submits the FPPPA charge calculations along with supporting documents to the Commission on quarterly basis. The Commission undertakes analysis of the submission made by the utilities and if there are any discrepancies or deviations from the original FPPPA order, necessary instructions are being passed on to the respective utility. Based on the Commission's instruction, required corrections are made in the FPPPA charge by the Utilities.

The FPPPA charges billed for the FY 2016-17 is shown in the below Table;

FY 2016-17	State Owned Discoms
Apr.'16 to Jun.'16	1.44
Jul.'16 to Sept.'16	1.54
Oct.'16 to Dec.'16	1.73
Jan.'17 to Mar.'17	1.76

FY 2016-17	Torrent Power (Ahmedabad & Surat)
Apr.'16 to Jun.'16	1.30
Jul.'16 to Sept.'16	0.80
Oct.'16 to Dec.'16	0.90
Jan.'17 to Mar.'17	1.00

Information regarding FPPPA recovery and the FPPPA calculations submitted to the Commission for approval are kept on the website of Licensees.

3.4 Disposal of petitions and Appeals

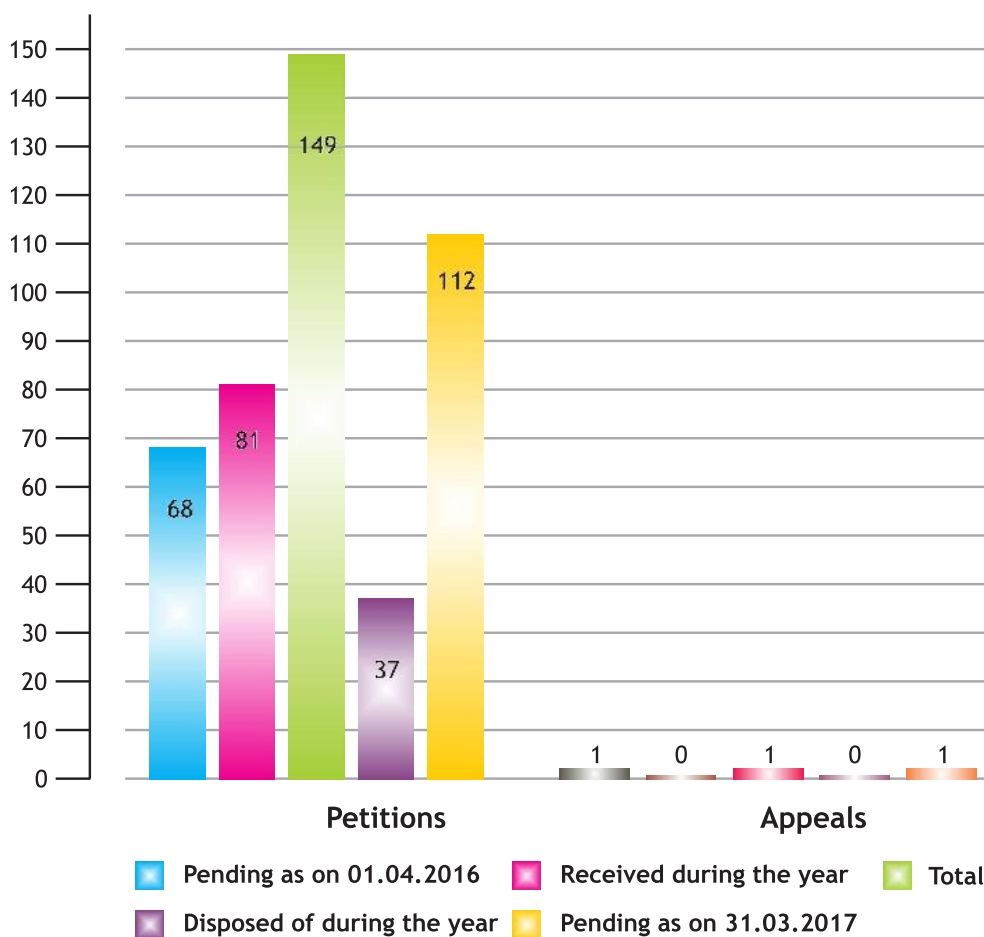
The Commission has disposed of 37 petitions during the financial year. Total 112 petitions and 1 Appeal were pending as on 31.03.2017. However, no Miscellaneous Applications and License Applications were received during the financial year 2016-17. The details are given in the table below:

Particulars	Pending as on Dt. 1-4-2016	Received During the Year	Total	Disposed During the Year	Pending as on Dt. 31-03-2017
Petitions	68	81	149	37	112
Appeals	1	0	1	0	1
Total	69	81	150	37	113

The details of Petitions disposed of during the year 2016-17 are depicted in Annexure-3.



Status of Petitions during FY 2016-17





3.5 ADJUDICATION OF DISPUTES AND DIFFERENCES

Consumer Grievance Redressal Forum

Recognizing the need for proper Redressal of consumers' grievances, the Electricity Act, 2003, under section 42(5) requires distribution licensees to establish a forum for Redressal of the consumer grievances. In addition, it also provides for establishment of the office of the Ombudsman for representation, if any, against decisions of the forum. These are additional avenues, besides any other, which the distribution licensees may create, for Redressal of grievances.

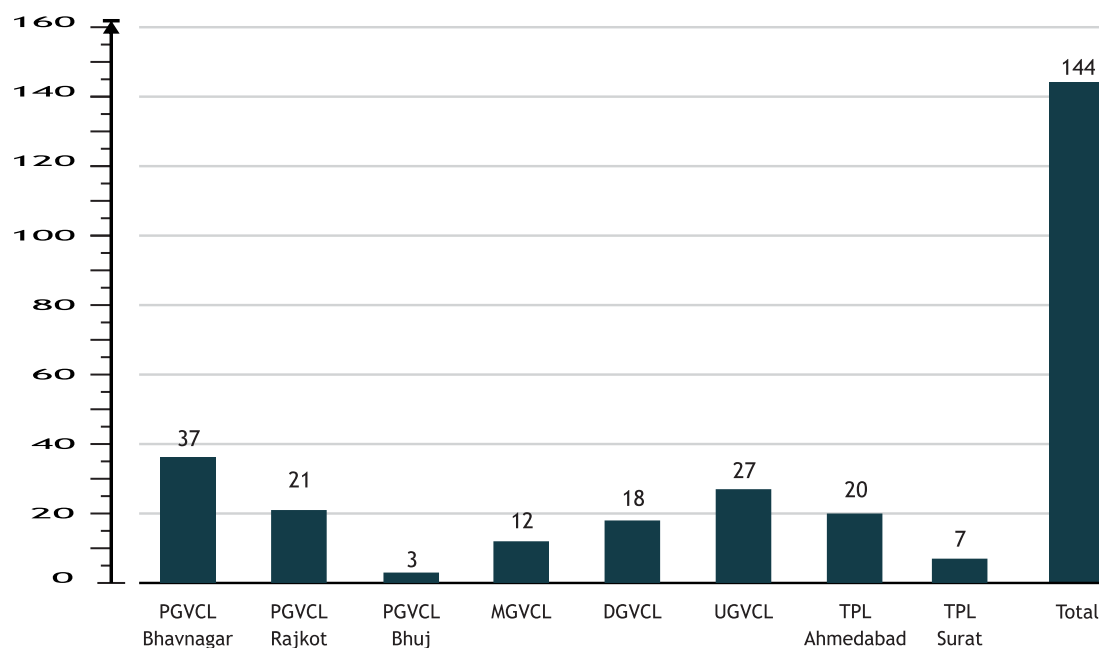
All the six distribution licensees operating in the state have established forums for Redressal of grievances. The Commission has appointed independent members for all the Consumer Grievances Redressal Forums established by various distribution licensees. The locations of the forums are shown in Annexure-6. The Commission is monitoring the working of such forums through quarterly reports submitted to it and review meetings.

Electricity Ombudsman

The Commission has appointed Shri Dilip Raval as the Electricity Ombudsman with a well-equipped independent office and supporting staff. Representations against orders of the forums are being filed before the Ombudsman, who functions in accordance with Consumer Grievances Redressal Forum and Ombudsman Regulations, 2011. The details of the representations to the Ombudsman's office are as follows:

No. of cases pending at the beginning of the year	No. of cases received during the year	Total no. of cases	No. of cases disposed during the year	No. of cases pending at the end of the year
26	118	144	140	04

The nature of the representations received and their forum-wise break-up are given in Annexure 7, 8 respectively.

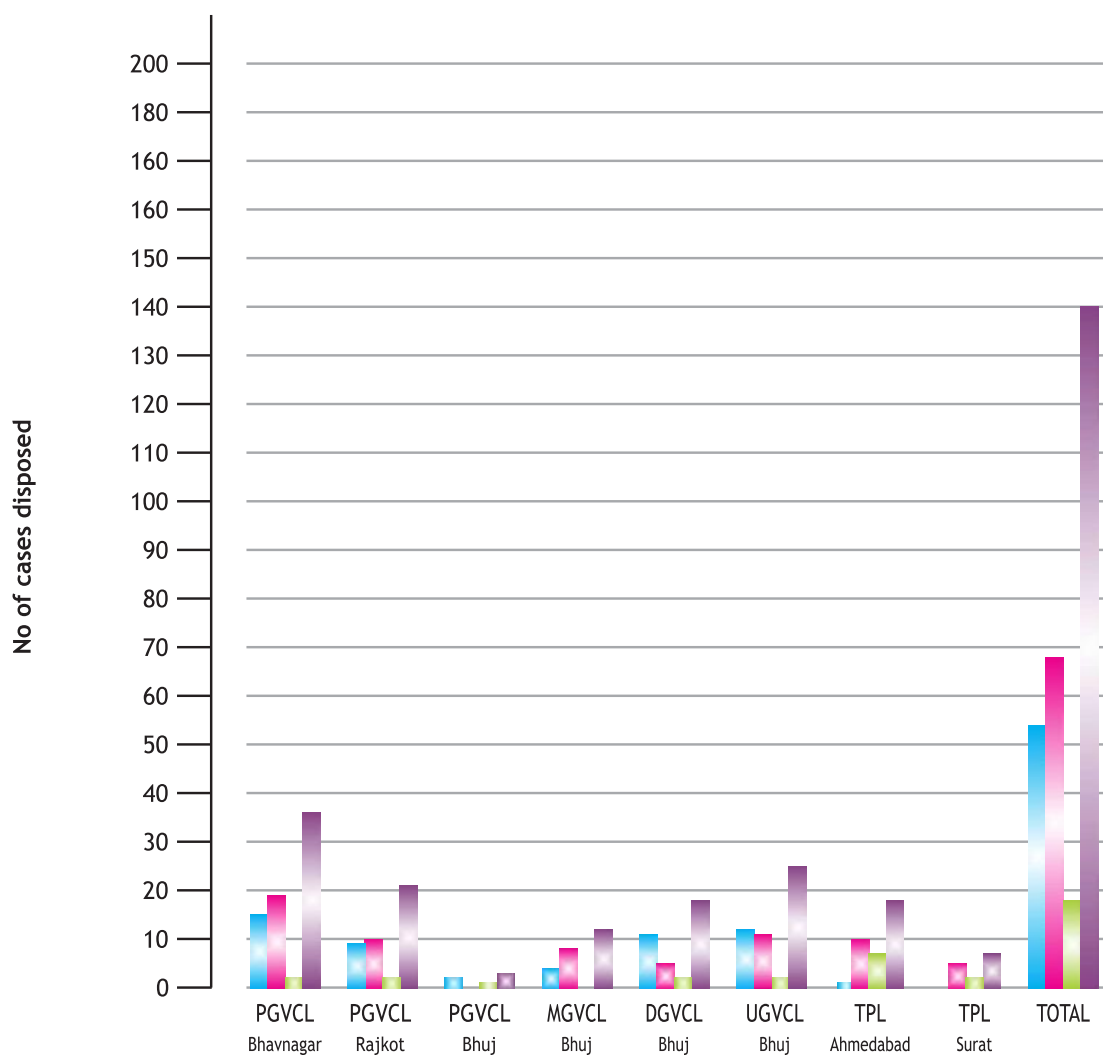


The cases disposed by the Electricity Ombudsman during the year in which the cases are in favour of Appellant, in favour of licensee and others for FY 2016-17 received by the Electricity Ombudsman.



The cases disposed by the Electricity Ombudsman during the year in which the cases are in favour of Appellant, in favour of licensee and others 16-17 received by the Electricity Ombudsman

Cases Disposed during the Year FY 2016-17



	PGVCL Bhavnagar	PGVCL Rajkot	PGVCL Bhuj	MGVCL Vadodra	DGVCL Surat	UGVCL Mhsana	TPL Ahd.	TPL Surat	TOTAL
In Favour of Appellant	15	9	2	4	11	12	1	0	54
In Favour of License	19	10	0	8	5	11	10	5	68
Others	2	2	1	0	2	2	7	2	18
Total	36	21	3	12	18	25	18	7	140



3.6 State Advisory Committee

GERC in terms of the Electricity Act, 2003, has constituted a State Advisory Committee to represent the interests of Commerce, industry, transport, agriculture, consumers, Non Government Organizations, education and research. The constitution of the Committee is given in Annexure 9. The Committee meets regularly to deliberate the issues regarding:

1. Problems related to Policy.
2. Quality, continuity and regulations of the services provided by the licensees.
3. Implementation of terms and conditions and requirements of the licenses of licensees
4. Protection of consumers' interests.
5. Electricity supply and overall standards of performance by utilities.

During the Year 2016-17, the Committee meeting held on 23rd Meeting on 23rd January, 2017 at GIFT City, Gandhinagar.

3.7 Training Programme

Total 10 Training/workshops etc. attended by Staff Members of GERC during the Year 2016-17 (01.04.2016 to 31.03.2017):



3.8 FOR Meeting:

Chairman, who is member of the forum, actively participated in various meeting.of interest to the society.

Sl No	Period	Details	Attended by
1	08/04/2016	The 53 rd Meeting of Forum of Regulators (FOR) during 7 th to 9 th April, 2016 at Hotel Ramada, Plaza, JHV, Varanasi, (UP)	Shri Anand Kumar, Chairman
2	17/06/2016	FOR “Working Group on Renewable Energy” on Friday, the 17 th June, 2016 from 10.30 Hours at New Delhi	Shri Anand Kumar, Chairman
3	24/06/2016 to 26/06/2016	FOIR Annual Meeting at Pondicherry	Shri Anand Kumar, Chairman
4	22/07/2016	55 th Meeting of the FOR at CERC Office New Delhi	Shri Anand Kumar, Chairman
5	16/09/2016	To attend FOIR Meeting Governing Body Meeting at Delhi	Shri Anand Kumar, Chairman
6	16/12/2016	To attend 57 th Meeting of Forum of Regulators at Raipur	Shri Anand Kumar, Chairman
7	02/02/2017 to 04/02/2017	FOIR Meeting at Goa	Shri Anand Kumar, Chairman
8	27/02/2017	FOR Meeting at Delhi	Shri Anand Kumar, Chairman
9	10/06/2017	Forum of Indian Regulators (FOIR) Meeting	Shri KM Shringarpure, Member
10	23/06/2016 to 25/06/2016	FOIR - Annual General Meeting and workshop/research conference	Shri KM Shringarpure, Member
11	02/02/2017	FOIR workshop/research conference for the Chairpersons and Members of Regulatory Commission Authorities.	Shri KM Shringarpure, Member
12	23/06/2016 to 25/06/2016	‘FOIR’ Annual General Meeting during 23 rd - 25 th June, 2016 at Pondicherry	Shri PJ Thakkar, Member
13	13/07/2016	Meeting of the Forum of Regulators (FOR) Sub-Group on Power Quality at CERC, New Delhi	Shri PJ Thakkar, Member
14	06/01/2017	Fourth Meeting of FOR Sub-Group on “Power Quality” at CERC, New Delhi	Shri PJ Thakkar, Member



Sl No	Period	Details	Attended by
15	02/02/2017 to 04/02/2017	“FOIR” workshop/research conference for the Chairpersons and Members of Regulatory Commissions/Authorities at Goa	Shri PJ Thakkar, Member
16	27/02/2017	The 58 th Meeting of FOR at CERC, New Delhi.	Shri PJ Thakkar, Member

3.9 FOIR Meeting

The Forum of Indian Regulators is a society registered under the Societies Registration Act, to promote transparency in the working of regulatory bodies, protect consumer interest and develop consumer advocacy organizations, develop human and institutional capacities in regulatory bodies, utilities and other stake holders, research the efficiency and effectiveness of independent regulation, provide an information base on regulatory law and practices and regulatory economics, collaborate with academic and research institutions, professional bodies and NGOs in India and internationally; in areas of interest to the society.

3.10 Important Orders/Regulations

3.10.1 Additional Surcharge :

The Commission vide its Order dated 12.03.2014 read with Order dated 17.4.2014 in Petition No. 1302/2013, filed by Gujarat Urja Vikas Nigam Limited and distribution licensees PGVCL, MGVCL, DGVCL UGVCL, decided the applicability as well as the methodology for calculation of Additional Surcharge.

Since then, the Commission carries out the exercise of determination of Additional Surcharge upon the data submitted by the licensees for half yearly control periods i.e. from 1st April to 30th September and 1st October to 31st March. For the control period 1st April, 2016 to 30th September, 2016, the Commission vide its Order No. 1 of 2016 dated 4.3.2016 determined the Additional Surcharge of Rs. 0.49/kWh and for control period 1st October, 2016 to 31st March, 2016, the Commission vide its Order No. 3 of 2016 dated 1.10.2016 determined the Additional Surcharge of Rs. 0.44/kWh based on the approved formula and methodology as per its order dated 12.03.2014 in Petition No. 1302/2013.

3.10.2 Draft Gujarat Electricity Regulatory Commission (Forecasting, Scheduling, Deviation Settlement and Related Matters of Solar and Wind Generation Sources) Regulations, 2017.

The Commission prepared and issued the draft Gujarat Electricity Regulatory Commission (Forecasting, Scheduling, Deviation Settlement and Related Matters of Solar and Wind Generation Sources) Regulations, 2017 on 13.1.2017 inviting the suggestions/objections of the stakeholders. The various draft clauses of Regulations under the different heads namely, Scope, Objective, Forecasting &



Scheduling code, Qualifying criteria for Qualified Co-ordinating Agency (QCA), Commercial & Deviation Settlement, Implementation Procedure, Means of Communication between QCA & SLDC, Access to Meters, Deviation Accounting, Settlement of Deviation charge, Payment Mechanism and Security, Information about Curtailment, Energy Accounting De-pooling of Deviation Charges, etc. are incorporated in the said draft Regulations. The major highlight of these Regulations, Absolute Error range and corresponding Deviation Charges proposed by the Commission, is as follows:

For Wind Generating Station/Pooling Station commissioned prior to 30.1.2010		
Sr. No.	Absolute Error in the 15-minute time block	Deviation Charges payable to State DSM Pool
1	< = 12%	None
2	>12% but <=20%	At ₹. 0.35 per unit for the shortfall or excess energy for absolute error beyond 12% and upto 20%
3	>20% but <=28%	At ₹. 0.35 per unit for the shortfall or excess energy beyond 12% and upto 20% + ₹. 0.70 per unit for balance energy beyond 20% and upto 28%
4	> 28%	At ₹. 0.35 per unit for the shortfall or excess energy beyond 12% and upto 20% + ₹. 0.70 per unit for shortfall or excess energy beyond 20% and upto 28% + ₹. 1.05 per unit for balance energy beyond 28%

For Wind Generating Station/Pooling Station commissioned on or after 30.1.2010		
Sr. No.	Absolute Error in the 15-minute time block	Deviation Charges payable to State DSM Pool
1	< = 8%	None
2	>8% but <=16%	At ₹. 0.35 per unit for the shortfall or excess energy for absolute error beyond 8% and upto 16%
3	>16% but <=24%	At ₹. 0.35 per unit for the shortfall or excess energy beyond 8% and upto 16% + ₹. 0.70 per unit for balance energy beyond 16% and upto 24%
4	> 24%	At ₹. 0.35 per unit for the shortfall or excess energy beyond 8% and upto 16% + ₹. 0.70 per unit for shortfall or excess energy beyond 16% and upto 24% + ₹. 1.05 per unit for balance energy beyond 24%



For Solar Generating Station/Pooling Station		
Sr. No.	Absolute Error in the 15-minute time block	Deviation Charges payable to State DSM Pool
1	$\leq 7\%$	None
2	$>7\%$ but $\leq 15\%$	At ₹. 0.60 per unit for the shortfall or excess energy for absolute error beyond 7% and upto 15%
3	$>15\%$ but $\leq 23\%$	At ₹. 0.60 per unit for the shortfall or excess energy beyond 7% and upto 15% + ₹. 1.20 per unit for balance energy beyond 15% and upto 23%
4	$>23\%$	At ₹. 0.60 per unit for the shortfall or excess energy beyond 7% and upto 15% + Rs. 1.20 per unit for shortfall or excess energy beyond 15% and upto 23% + ₹. 1.80 per unit for balance energy beyond 23%



3.10.3 Order No. 2 of 2016: Determination of Tariff for procurement of power by the Distribution licensees and Others from Wind Power Projects.

The Commission vide Order No. 2 of 2016 dated 30.8.2016 has determined the preferential tariff for procurement of power by the distribution licensees from Wind Power Projects and other commercial issues. The control period of this Order spreads over from the date of this Order i.e. 30.8.2016 to 31.3.2019. The various parameters considered while calculating the tariff is as follows:

Parameters for the new control period	
Project Cost	
Capital Cost including Land, Plant & Machinery, F & S facilities, LVRT,	
Erection and evacuation infrastructure cost (₹. Lakh/MW)	615
Normative O&M cost for first year (₹. Lakh/MW)	9.90
Escalation in O & M (per annum from 2nd year)	5.72%
Performance Parameters	
CUF	24.5%
Project life in Years	25
Financial Parameters	
Debt-Equity ratio	70:30
Term of Loan in Years	10
Interest on Term Loan	11.80%
Interest on Working Capital	11.80%
Depreciation	7% (for the first 10 years)
	1.33% (from 11 to 25 years)
Parameters for the new control period	
Return on Equity	14%
Minimum Alternate Tax	21.34%
Corporate Income Tax	34.61%
Discount rate	10.04%
Gross Tariff	₹. 4.72 per kWh
Depreciation Benefit	₹. 0.53 per kWh
Net Tariff	₹. 4.19 per kWh

The net tariff determined by the Commission is ₹. **4.19/kWh** payable by the distribution licensees to wind turbine generators which are installed and commissioned during the control period of this order for which the PPAs shall be signed by the distribution licensees with the Wind Turbine Generators.



3.10.4 Order No. 5 of 2016: Determination of Tariff and other terms & conditions for procurement of Power by Distribution Licensees from Small, Mini and Micro Hydro power projects in the State of Gujarat.

The Commission vide Order No. 5 of 2016 dated 14.12.2016 has determined the preferential tariff for procurement of power by the distribution licensees from Small, Mini and Micro hydro projects and other commercial issues. The control period of this Order spreads over from the date of this Order i.e. 14.12.2016 to 31.3.2019. The various parameters considered while calculating the tariff is as follows:

Parameters	Decided for next control period	
	Below 5 MW	5 - 25 MW
Project Cost		
Total Project Cost (Land + Plant & Machinery + Erection Cost +Evacuation Infrastructure Cost up to GETCO Sub- station) (₹. Lakh/MW)	820	748
Normative O&M Cost for first year (% of project cost)	3.3%	2.5%
Escalation in O&M (per annum from 2nd year)	5.72%	5.72%
Performance Parameters		
CUF	42%	42%
Auxiliary Consumption	1%	1%
Project Life in Years	35	35
Financial Parameters		
Debt-Equity ratio	70:30	70:30
Term of Loan in Years	10	10
Interest on Term Loan	11.40%	11.40%
Interest on Working Capital	11.40%	11.40%
Depreciation	7% (for first 10 years) 0.8% (from 11 to 35 years)	7% (for first 10 years) 0.8% (from 11 to 35 years)
Minimum Alternate Tax	21.34%	21.34%
Corporate Income Tax	34.61%	34.61%
Return on Equity	14%	14%
Discount Rate	9.72%	9.72%
Tariff	Gross Tariff - ₹. 4.32/kWh AD benefit - ₹. 0.38/kWh Net Tariff - ₹. 3.94 /kWh	Gross Tariff - ₹. 3.64/kWh AD benefit - ₹. 0.35/kWh Net Tariff - ₹. 3.29 /kWh

The net tariff determined by the Commission is ₹. 3.94/kWh for SHP projects **up to 5 MW** and ₹. 3.29/kWh for SHP projects **above 5 MW and upto 25 MW** projects; payable by the distribution licensees to the SHP projects commissioned during the control period of this order or which the PPAs shall be signed by the distribution licensees with the Small Hydro Generators.



3.10.5 Order No. 4 of 2016: Determination of Tariff and other terms & conditions for Procurement of Power by Distribution Licensees from Municipal Solid Waste to Energy Projects in the State of Gujarat.

The Commission vide Order No. 4 of 2016 dated 10.11.2016 has determined the preferential tariff for procurement of power by the distribution licensees from Municipal Solid Waste to Energy Projects and other commercial issues. The control period of this Order spreads over from the date of this Order i.e. 10.11.2016 to 31.3.2019. The various parameters considered while calculating the tariff is as follows:

Parameters	Mass Incineration	RDF based Incineration
	Project Cost and O & M	
Total Project Cost (including Evacuation Infrastructure Cost up to Interconnection Point)		
(₹. Lakh/MW)	1600	900
Normative O&M Cost for first year		
(% of project cost)	6%	5%
Escalation in O&M (per annum from 2nd year)	5.72%	5.72%
Performance Parameters		
PLF	65% for 1st year & 75% from 2nd year Onwards	65% for 1st year & 80% from 2nd year Onwards
Auxiliary Consumption	16%	12%
Project Life in Years	20	20
Station Heat Rate kCal/kWh	NA	4100
Gross Calorific Value of Fuel kCal/kg	NA	2500
Cost of Fuel	NA	₹. 1600 per MT
Fuel Cost Escalation	NA	3%
Financial Parameters		
Debt-Equity ratio	70:30	70:30
Tenure of Loan in Years	10	10
Interest on Term Loan	11.80% p.a.	11.80% p.a.
Interest on Working Capital	11.80% p.a.	11.80% p.a.
Depreciation	7% (up to 10 years)	7% (up to 10 years)
	2% (11 to 20 years)	2% (11 to 20 years)
Minimum Alternate Tax	20.389%	20.389%
Corporate Income Tax	33.063%	33.063%
Return on Equity	14%	14%
Discount Rate	10.25%	10.25%
Levelling Tariff for 20 years	Tariff ₹.7.03/kWh for the projects not availing the	Tariff ₹. 7.07/kWh for the projects not availing the



Parameters	Mass Incineration	RDF based Incineration
	Project Cost and O & M	
	AD benefit	AD benefit.
	Tariff ₹. 6.31/kWh	Tariff ₹. 6.67/ kWh
	for the projects	for the projects
	availing AD benefit	availing AD benefit

The net tariff payable by the distribution licensees to MSW based Waste to Energy Plants which are installed and commissioned during the control period of this order for which the PPAs shall be signed by the distribution licensees with is as follows:

Tariff (₹./kWh)	Mass Incineration(₹./kWh)	RDF based Incineration (₹./kWh)
With Accelerated Depreciation	6.31	6.67
Without Accelerated Depreciation	7.03	7.07

3.10.6 Suo-Motu proceedings for monitoring of Renewable Purchase Obligations by the obligated entities:

The Commission has notified the GERC (Procurement from Energy from Renewable Sources) Regulations, 2010 and Gujarat Electricity Regulatory Commission (Procurement of Energy from Renewable Sources) (First Amendment) Regulations, 2014 (Notification No. 2 of 2014). In the above Regulations the Commission has notified the RPO percentage to be complied by the obligated entities during different financial years by procurement of renewable energy as a part of total procurement of power. The Hon'ble Tribunal has passed an order dated 25/04/2014 in Appeal No. 24 of 2013 and IA No. 39 of 2013 and directed the Commission to monitor the RPO percentage on year to year basis. Moreover, while verifying the compliance of RPO by the obligated entities, the Commission shall be required to direct the obligated entities to issue a public notice to invite comments and suggestions from the stakeholders for compliance of the Renewable Purchase Obligations.

The Commission had issued daily order dated 12.01.2017 in Petition No. 1604 of 2016 filed by GUVNL and observed that the obligated entities are required to comply the Renewable Purchase Obligation (RPO) during the year and the Commission shall verify the compliance of Renewable Purchase Obligation by the obligated entities on completion of the year. Moreover, Torrent Power Limited filed a Petition No. 1615 of 2015 for compliance of RPO by them. Therefore, the Commission directed GUVNL and TPL to invite comments and suggestions from stakeholders by publishing the public notice and hosting the petition on their websites for inviting comments and suggestions from the stakeholders.

For the other distribution licensees namely Torrent Power Limited (Dahej), Kandla Port Trust, MPSEZ Utilities Pvt. Limited, Jubilant Infrastructure Pvt. Limited, M/s. Aspen Infrastructure Limited, and GIFT Power Company Limited, the Commission decided to initiate Suo-Motu proceedings through Suo-Motu Petition No. 1637 of 2017 for verification of compliance of RPO of FY 2015-16 by above entities. The Commission has made GEDA as a party to the said proceedings being the Nodal Agency. The Commission heard the above matters on 19.05.2017 for compliance of RPO for FY 2015-16 and reserved the matter for order.



3.10.7 Discussion paper: Determination of Tariff for procurement of power by distribution licensees and others from Biomass based power projects and Bagasse based co-generation projects for the state of Gujarat.

Since the control period of the earlier generic Order for Biomass and Bagasse based co-generation projects was expiring on 31.3.2016, the same was extended by the Commission vide Suo-Motu Order dated 24.5.2016 in Petition No.1565 of 2016 and the Commission also initiated the tariff determination process for the next control period. The Commission issued the Discussion Paper in this regard on 25.5.2016 inviting the suggestion/objections of the stakeholders.

The various parameters proposed for Biomass based power projects for next control period, compared with the parameters of the previous Tariff order are follows:

Parameters	Biomass based Power with		Biomass based Power Projects	
	Water-Cooled Condensers		with Air-Cooled Condensers	
	As per existing	Proposed for	As per existing	Proposed for
	Tariff order	next control	Tariff order	next control
		period		period
Project Cost and O&M				
Total Project Cost (Land + Plant & Machinery + Erection Cost + Evacuation Infrastructure Cost up to Interconnection Point) (₹. Lakh/MW)	468	477	498	507
Normative O&M Cost for first year (% of project cost)	5%	5%	5%	5%
Escalation in O&M (per annum from 2nd year)	5.72%	5.72%	5.72%	5.72%
Performance Parameters				
CUF	70% for 1st year & 80% from 2nd year onwards	70% for 1st year & 80% from 2nd year onwards	70% for 1st year & 80% from 2nd year onwards	70% for 1st year & 80% from 2nd year onwards
Auxiliary Consumption	10%	10%	10%	10%
Project Life in Years	20	20	20	20
Station Heat Rate kCal/kWh	3800	3800	3950	3950
Gross Calorific Value of Fuel kCal/kg	Biomass-3400 and Coal-3632	Biomass-3396 and Coal-3969	Biomass-3400 and Coal-3632	Biomass-3396 and Coal-3969
Cost of Fuel	₹. 2726 per MT for biomass and ₹. 2912 per MT for coal	₹. 2736per MT for biomass and ₹. 3138 per MT for coal	₹. 2726 per MT for biomass and ₹. 2912 per MT for coal	₹. 2736 per MT for biomass and ₹. 3138 per MT for coal



Parameters	Biomass based Power with		Biomass based Power Projects	
	Water-Cooled Condensers		with Air-Cooled Condensers	
	As per existing	Proposed for	As per existing	Proposed for
	Tariff order	next control	Tariff order	next control
		period		period
Fuel Cost Escalation	5%	5%	5%	5%
Financial Parameters				
Debt-Equity ratio	70:30	70:30	70:30	70:30
Term of Loan in Years	10	10	10	10
Interest on Term Loan	12.86%	12.30%	12.86%	12.30%
Interest on Working Capital	12.86%	11.30%	12.86%	11.30%
Depreciation	6% (up to 10	6% (up to 10	6% (up to 10	6% (up to 10
	years)	years)	years)	years)
	3%	3%	3%	3%
	(11 to 20 years)	(11 to 20 years)	(11 to 20 years)	(11 to 20 years)
Minimum Alternate Tax	20.008%	21.34%	20.008%	21.34%
Corporate Income Tax	32.45%	34.61%	32.45%	34.61%
Return on Equity	14%	14%	14%	14%
Tariff	Fixed Costa.	Fixed Costa.	Fixed Costa.	Fixed Costa.
	without AD	without AD	without AD	without AD
	benefit ₹.1.77/	benefit ₹. 1.78/	benefit ₹.1.89/	benefit ₹.1.89/
	kWhb. with AD	kWhb. with AD	kWhb. with AD	kWhb. with AD
	benefit: ₹.	benefit: ₹.	benefit: ₹.	benefit: ₹.
	1.49/ kWh	1.45/ kWh	1.58/ kWh	1.54/ kWh
	Variable cost	Variable cost	Variable cost	Variable cost
	FY 2013-14	FY 2016-17	FY 2013-14	FY 2016-17
	₹. 3.39/kWh,	₹. 3.39/kWh,	₹. 3.52/kWh,	₹. 3.52/kWh,
	FY 2014-15-	FY 2017-18	FY 2014-15-	FY 2017-18
	₹. 3.55/kWh,	₹. 3.56/kWh,	₹. 3.69/kWh,	₹. 3.70/kWh,
	FY 2015-16	FY 2018-19	FY 2015-16	FY 2018-19
	₹. 3.73/kWh	₹. 3.74/kWh	₹. 3.88/kWh	₹. 3.89/kWh



The various parameters proposed for Bagasse based co-generation power projects for next control period, compared with the parameters of the previous Tariff order are follows:

Parameters	Bagasse based Co-generation Projects	
	As per Existing Tariff Order	Proposed for next control period Project Cost and O&M
Total Project Cost (Land + Plant & Machinery + Erection Cost + Evacuation Infrastructure Cost up to Interconnection Point) (₹. Lakh/MW)	457	466
Normative O & M Cost for First Year (₹. Lakh/MW)	3% of project cost	3% of project cost
Escalation in O&M (per annum from 2nd year)	5.72%	5.72%
Performance Parameters		
CUF	60%	60%
Auxiliary Consumption	8.5%	8.5%
Project Life in Years	20	20
Station Heat Rate kCal/kWh	3600	3600
Gross Calorific Value of Fuel kCal/kg	Bagasse-2250 and Coal-3632	Bagasse-2250 and Coal-3969
Cost of Fuel	₹. 1804 per MT for bagasse and ₹.2912 per MT for coal	₹. 1580 per MT for bagasse and Rs.3138 per MT for coal
Fuel Cost Escalation	5%	5%
Financial Parameters		
Debt-Equity Ratio	70:30	70:30
Term of Loan in Year	10	10
Interest on Term Loan	12.86%	12.30%
Interest on Working Capital	12.86%	11.30%
Depreciation	6% (up to 10 years)	6% (up to 10 years)
	3% (11 to 20 years)	3% (11 to 20 years)
Minimum Alternate Tax	20.008%	21.34%
Corporate Income Tax	32.45%	34.61%
Return on Equity	14%	14%
Tariff	Fixed Costa. without AD	Fixed Costa. without AD
	benefit : ₹.1.86 /kWh	benefit : ₹.1.91 /kWh
	b.with AD benefit:₹. 1.54/ kWh	b.with AD benefit:₹. 1.54/ kWh
	Variable cost	Variable cost
	FY 2013-14-₹. 3.15/kWh,	FY 2016-17-₹. 2.85/kWh,
	FY 2014-15-₹. 3.31/kWh,	FY 2017-18-₹. 2.99/kWh,
	FY 2015-16-₹. 3.48/kWh	FY 2018-19-₹. 3.14/kWh



3.10.8 Notification No. 5 of 2016: Gujarat Electricity Regulatory Commission (Net Metering Rooftop Solar PV Grid Interactive System) Regulations, 2016.

After the issuing Draft Regulations seeking the suggestions/objections of the stakeholders and conducting the public hearing on 29.6.2015, the Commission finalized the Regulations with effective from date of Gazette publishing i.e. 21.6.2016.

The Regulations contain detailed provisions under various heads namely, Scope and Application, General Principles, Capacity Targets for Distribution Licensee, Eligible Consumer and individual project capacity, Procedure for Application, Interconnection with Grid: Standards and Safety, Energy Accounting and Settlement, Dispute Resolution, Solar Renewable Purchase Obligation, Applicability of other charges, Demand Cut, etc.

The highlight of the major provisions of the Regulations is as follows:

Capacity Targets for Distribution Licensee:

- The Distribution Licensee shall provide net metering arrangement to Eligible Consumers.
- Provided that the cumulative capacity to be allowed at a particular distribution transformer shall not exceed 65% of the peak capacity of the distribution transformer;
- The distribution licensee shall update distribution transformer capacity available for connecting Rooftop Solar PV Systems under net metering arrangement on yearly basis and shall provide the information to the Commission.
- Provided that if augmentation of transformer/distribution network is required, the cost of such augmentation shall be borne by the consumer.
- The capacity of Rooftop Solar PV System to be installed at the premises of any consumer shall not be less than one Kilo Watt (1 kW).

Eligible Consumer and individual project capacity:

- In addition to the general eligibility defined in Regulation 2.1(l) of these Regulations, the Eligible Consumer for the Rooftop Solar PV System with net metering shall:
 - I. be a consumer of the local distribution licensee;
 - II. own or be in legal possession of the premises including the rooftop or terrace or building or infrastructure or pen areas of the land or part or combination thereof on which the Solar PV System is proposed to be installed;
 - III. connect the proposed Rooftop Solar PV System to the Distribution System of the Licensee;
 - IV. consume all of the electricity generated from the Rooftop Solar PV System at the same premises. If the consumer is not able to consume all of generated electricity in the same premises, he shall be



governed by Regulation 9 of these Regulations.

- The maximum Rooftop Solar PV System capacity to be installed at any Eligible Consumer's premises shall be upto a maximum of 50% of consumer's sanctioned load/contract demand;
- Provided that the installed capacity shall not be less than 1 kW and shall not exceed 1 MW;

Energy Accounting and Settlement:

- Any energy injected prior to commissioning shall be deemed as inadvertent power. The consumer / Solar PV owner is not eligible to receive any monetary compensation for such inadvertent power.
- For each billing period, the licensee shall show the quantum of electricity injected by Eligible Consumer/Solar PV system in the grid, electricity supplied by the distribution licensee, net billed electricity for payment by the consumer and net exported energy after adjustment against the consumption separately.

(1) For Residential and Government consumers

- In the event the electricity supplied by the distribution licensee during any billing period exceeds the electricity generated by the Eligible Consumer's Rooftop Solar PV System, the distribution licensee shall raise invoice for the net electricity consumption at the consumer's prevailing tariff;
- In the event the electricity injected exceeds the electricity consumed during the billing period, such excess injected electricity shall be purchased by the concerned Distribution Licensee at the APPC rate determined by the Commission for the year in which the Rooftop Solar PV System is commissioned for whole life of the Rooftop Solar PV System; e.g. for the Rooftop Solar PV System commissioned during 2016-17, the APPC rate determined by the Commission for FY 2015-16 shall be applicable.
- Banking of energy shall be allowed within one billing cycle of the consumer.
- The distribution licensee in addition to consumer tariff shall be eligible to raise invoice for any other charges as allowed by the Gujarat Electricity Regulatory Commission from time to time.

(2) For Industrial, Commercial and Other Consumers utilizing the 'energy attribute' of the generated solar energy from the Rooftop Solar PV System and not registered under REC mechanism.

- In the event the electricity supplied by the distribution licensee during any billing period exceeds the electricity generated by the Eligible Consumer's Rooftop Solar PV System, the distribution licensee shall raise invoice for the net electricity consumption at the consumer's prevailing tariff;
- In the event the electricity injected exceeds the electricity consumed during the billing period, such excess injected electricity after adjustment of consumption shall be purchased by the concerned Distribution Licensee at the APPC rate determined by the Commission for the year in which the Rooftop Solar PV System is commissioned for whole life of the Rooftop Solar PV System;



- Banking of energy shall be allowed within one billing cycle of the consumer, wherein set off may be given against energy consumed at any time of the billing cycle. However, peak charges shall be applicable for consumption during peak hours.
- The distribution licensee in addition to consumer tariff shall be eligible to raise invoice for any other charges as allowed by the Gujarat Electricity Regulatory Commission from time to time.

(3) For Industrial, Commercial and Other Consumers utilizing the 'energy attribute' of the generated solar energy from the Rooftop Solar PV System and utilizing the 'renewable attribute' for RPO compliance.

- In the event the electricity supplied by the distribution licensee during any billing period exceeds the electricity generated by the Eligible Consumer's Rooftop Solar PV System, the distribution licensee shall raise invoice for the net electricity consumption at the consumer's prevailing tariff;
- In the event the electricity injected exceeds the electricity consumed during the billing period, such excess injected electricity after adjustment of consumption in 15 minutes time block shall be purchased by the concerned Distribution Licensee at the APPC rate determined by the Commission for the year in which the Rooftop Solar PV System is commissioned for whole life of the Rooftop Solar PV System;

(4) For Industrial, Commercial and Other Consumers utilizing the 'energy attribute' of the generated solar energy from the Roof top Solar PV System and utilizing the 'renewable attribute' for REC.

- In the event the electricity supplied by the distribution licensee during any billing period exceeds the electricity generated by the Eligible Consumer's Rooftop Solar PV System, the distribution licensee shall raise invoice for the net electricity consumption at the consumer's prevailing tariff;
- In the event the electricity injected exceeds the electricity consumed during the billing period, such excess injected electricity after adjustment of consumption in 15-minute time block shall be purchased by the concerned Distribution Licensee at the 85% of APPC rate determined by the Commission for the year in which the Rooftop Solar PV System is commissioned for whole life of the project;

3.10.9 The GERC (Electricity Supply Code and Related Matters) (First Amendment) Regulations, 2016

The Commission has notified the GERC (Electricity Supply Code and Related Matters) Regulations, 2015 vide Notification No. 4 of 2015 dated 22.09.2015 taking reference of the Model Supply Code regulations, 2010 of Forum of regulators. The said regulations has repealed the GERC (Electricity Supply Code and Related Matters) Regulations, 2005 and subsequent four amendments. The Commission has also established the Gujarat Electricity Supply Code Review Panel vide letter dated 29.02.2016 to make the regulations in consistence with needs and requirements of consumers and technological changes. Considering the comments of the Electricity Supply Code Review Panel, the Commission notified the GERC (Electricity Supply Code and Related Matters) (First Amendment) Regulations, 2016 to redress difficulties in following a few provisions of the Supply Code Regulations.



4. Accounts

The Gujarat Electricity Regulatory Commission fund is operated under GERC Fund Rules 2005. GERC's income mainly consists of license and petition fees. The fund is audited each year by the Comptroller and Auditor General of India, who certifies the annual accounts, which are laid before the State Legislative Assembly.

The fund is operated through nationalised banks and state-sponsored financial institutions only. Its utilisation is governed by Gujarat Financial Rules 1971, amended from time to time. Surplus fund is invested in the form of fixed deposits in nationalised banks and state government financial institutions. GERC is not availing of any grant/financial support from the Government of Gujarat and is financially self-reliant since 2005.

GUJARAT ELECTRICITY REGULATORY COMMISSION		
BALANCE SHEET AS ON 31 ST MARCH 2017		
	Amount - ₹.	
CORPUS / CAPITAL FUND AND LIABILITIES	2016-17	2015-16
CORPUS / GERC CAPITAL FUND	1,67,63,00,000.00	1,46,80,00,000.00
RESERVES AND SURPLUS	8,27,33,455.85	7,18,18,183.72
EARMARKED ENDOWMENT FUNDS	0.00	0.00
SECURED LOANS AND BORROWINGS	0.00	0.00
UNSECURED LOANS AND BORROWINGS	5,52,410.00	2,59,850.00
DEFERRED CREDIT LIABILITIES	0.00	0.00
CURRENT LIABILITIES AND PROVISIONS	2,48,47,965.00	1,45,94,825.00
TOTAL	1,78,44,33,830.85	1,55,46,72,858.72
ASSETS		
FIXED ASSETS	18,28,09,210.33	19,86,47,126.33
INVESTMENTS - FROM EARMARKED / ENDOWMENT FUNDS	0.00	0.00
INVESTMENTS - OTHERS	0.00	0.00
CURRENT ASSETS, LOANS, ADVANCES	1,60,16,24,620.52	1,35,60,25,732.39
MISCELLANEOUS EXPENDITURE		
TOTAL	1,78,44,33,830.85	1,55,46,72,858.72



GUJARAT ELECTRICITY REGULATORY COMMISSION		
Income and Expeniture Account for the Year Ended 31 ST MARCH 2017		
	Amount - ₹.	
INCOME	2016-17	2015-16
Income from sales / service	0.00	0.00
Grants / Subsidies	0.00	0.00
Fees and charges	19,42,86,478.85	21,34,97,361.00
Income from Investments (Income on Investment, from earmarked / endowment Funds transferred to Funds)	0.00	0.00
Income from Royalty, Publications etc.	0.00	0.00
Interest Earned	11,87,69,318.78	10,49,32,879.84
Other Income	89,215.00	50,99,689.45
Increase / Decrease in stock of finished goods & work in progress	0.00	0.00
TOTAL (A)	31,31,45,012.63	32,35,29,930.29
EXPENDITURE		
Establishment Expenditure	3,88,60,440.00	2,85,55,764.00
Other Administrative Expenses etc.	3,28,47,976.50	2,61,01,609.00
Expenditure from Grants, subsidies etc.	0.00	0.00
Interest paid	0.00	0.00
Depreciation (Net Total at the year end - corresponding to schedule - 8)	2,22,21,324.00	2,27,65,050.25
TOTAL (B)	9,39,29,740.50	7,74,22,423.25
Balance being excess of Income over Expenditure (A-B)	21,92,15,272.13	24,61,07,507.04
Transfer to Corpus Fund	20,83,00,000.00	23,45,00,000.00
Transfer to General Reserve	1,09,15,272.13	1,16,07,507.04
Balance being surplus transferred to Balance Sheet	0.00	0.00
SIGNIFICANT ACCOUNTING POLICIES, CONTIGENT LIABILITIES AND NOTES ON ACCOUNTS		



5. THE POWER SECTOR SCENARIO IN GUJARAT AN OVERVIEW

5. OVER VIEW OF THE POWER SECTOR IN GUJARAT

Structure prior to Reforms



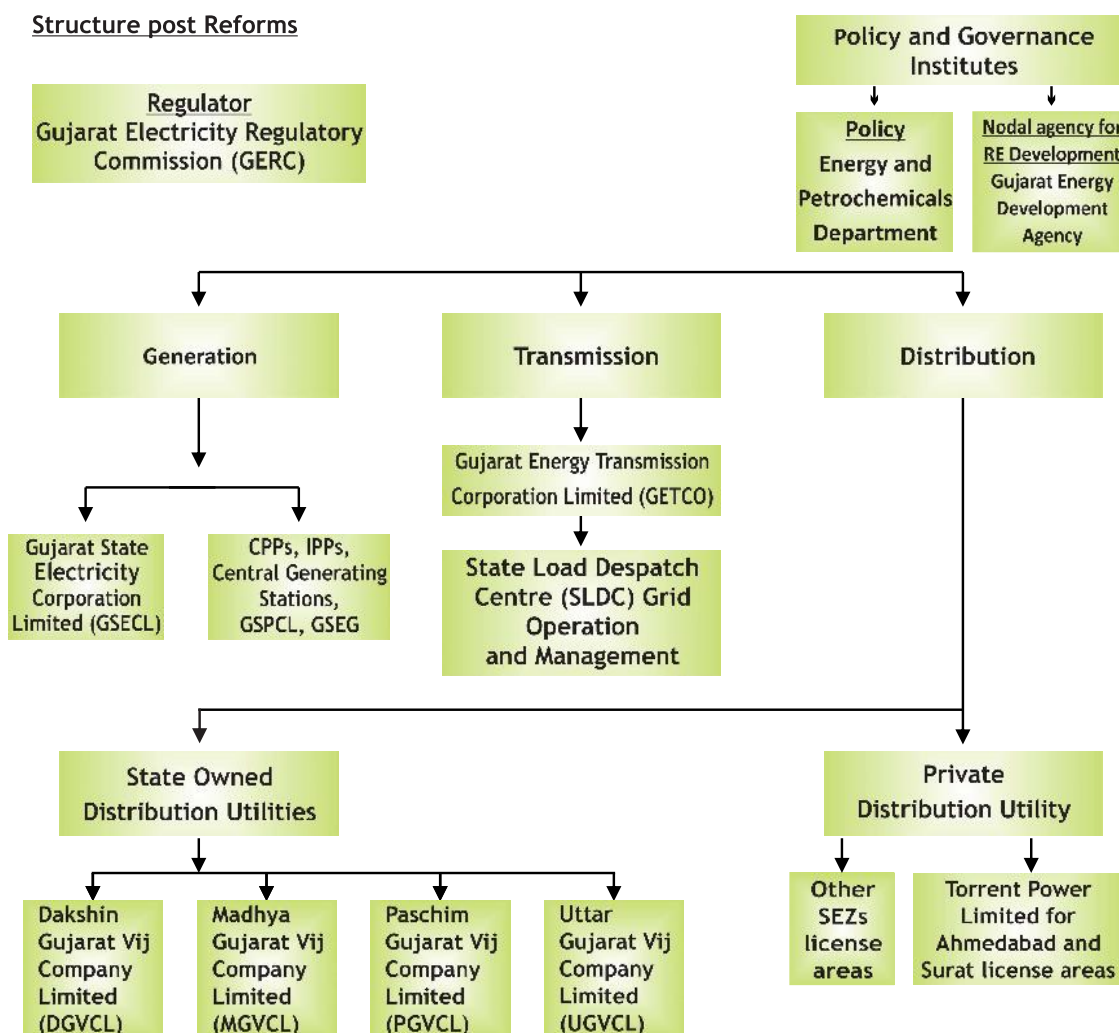
(State Owned Generation,

(Private Owned Generation, Transmission and Distribution)

Transmission and Distribution)

Structure post Reforms

Structure post Reforms





The figure above depicts the structure of power sector in Gujarat after the implementation of the Electricity Act, 2003.

- ❖ Gujarat Urja Vikas Nigam Limited (GUVNL) is the State Owned Holding Company of all its subsidiaries i.e. GSECL, GETCO, DGVC, MGVC, PGVC and UGVC.
- ❖ Gujarat State Electricity Corporation Limited (GSECL) is the State Owned Generation Company.
- ❖ Gujarat Energy Transmission Corporation Limited (GETCO) is the State Owned Transmission Company.
- ❖ State Load Despatch Centre (SLDC) operating under STU (i.e. GETCO)
- ❖ Dakshin Gujarat Vij Company Limited (DGVCL), Madhya Gujarat Vij Company Limited (MGVCL), Paschim Gujarat Vij Company Limited (PGVCL) and Uttar Gujarat Vij Company Limited (UGVCL) are the State Owned Distribution Companies.

All these six companies are 100% subsidiaries of GUVNL. The GUVNL is engaged in Supervision, Coordination and facilitation of the activities of its six Subsidiary Companies.

In addition to this, a private distribution company Torrent Power Ltd. (TPL) is also operating in Gujarat. TPL has generation facility in Ahmedabad and distribution license for Ahmedabad-Gandhinagar, Surat and Dahej SEZ areas.

In addition to the above, there are four SEZs, MPSEZ utilities Private Limited (MPSEZ) - The private owned distribution entity for Mundra SEZ area, Kandla Port Trust (KPT) - The Distribution Licensee owned by Kandla Port Trust for its area of operation at Kandla, Jubilant Infrastructure Ltd. (JIL) - The private owned Distribution Entity for Ishwaria SEZ near Bharuch, ASPEN Infra. Ltd. (AIL) (erstwhile Synfra Engineering and Construction Ltd.) - The private owned Distribution Entity for Vaghodia SEZ area near Vadodara, which are deemed Distribution Licensees in their respective areas.

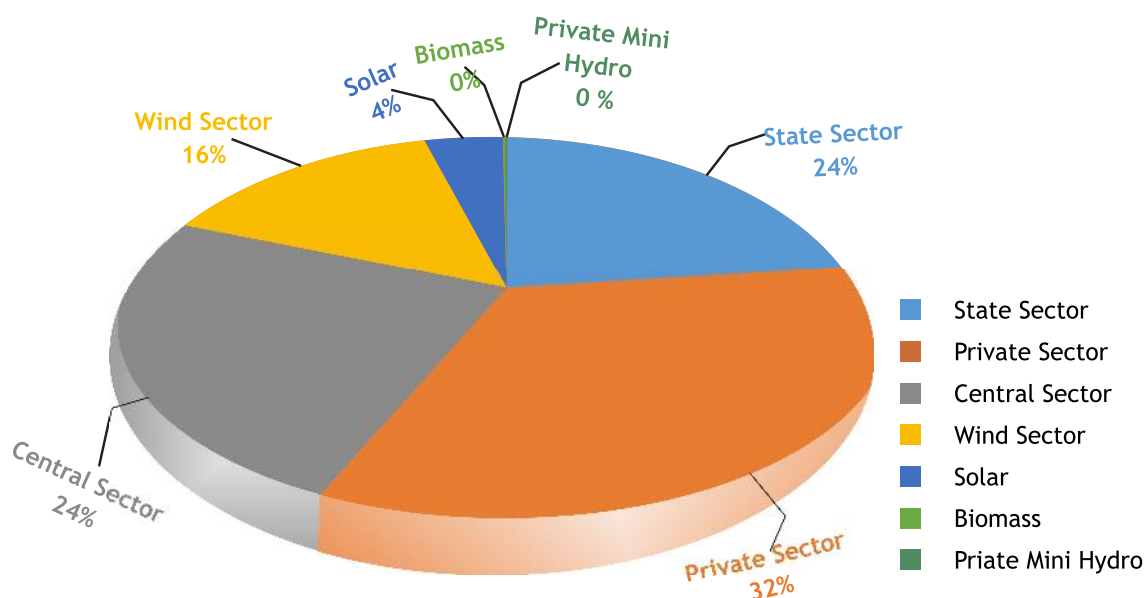
The sector-wise composition of installed generation capacity as on 31.03.2016 and 31.03.2017:

Particulars	As on 31-03-2016		As on 31-03-2017	
	Capacity(MW)	Share (%)	Capacity(MW)	Share (%)
State Sector	5995.57	23.97%	5996.67	22.16%
Private Sector	8025.80	32.09%	8411.86	31.09%
Central Sector	5904.54	23.61%	6051.44	22.36%
Wind Farm	3932.73	15.72%	5318.38	19.66%
Solar	1103.84	4.41%	1229.60	4.54%
Biomass	41.10	0.16%	41.10	0.15%
Private Mini Hydro	8.56	0.03%	8.56	0.03%
Total	25012.14	100%	27058	100%

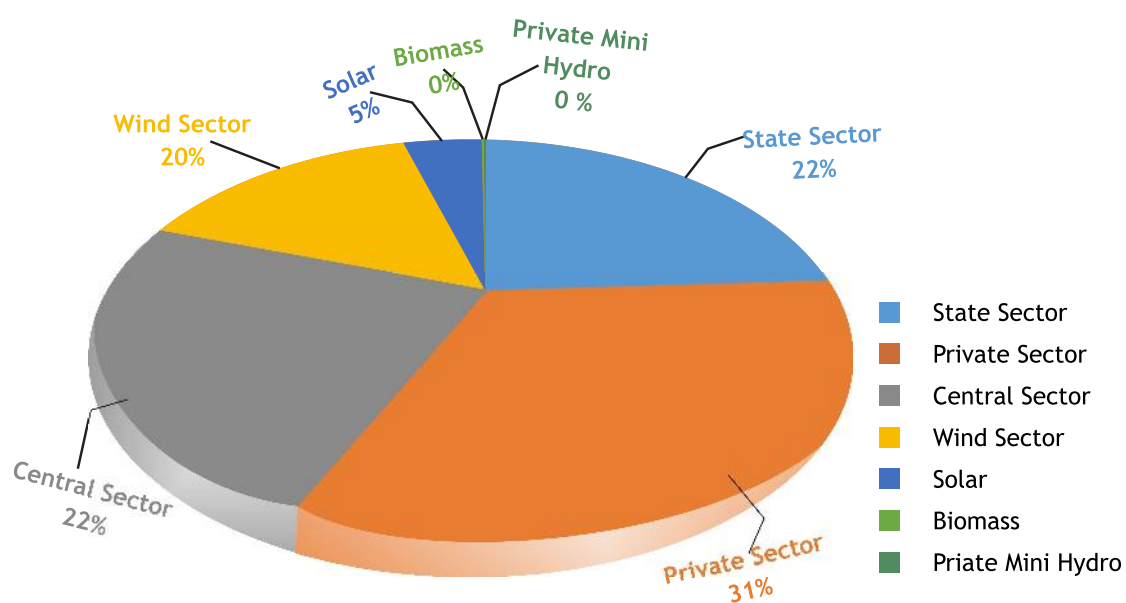
Source - GETCO MIS reports for the month of March 2016 and March 2017



As on 31-03-2016 Capacity (MW)



As on 31-03-2017 Capacity (MW)





As the figure enlightens, there was a capacity addition of 2045.86 MW during FY 2016-17 in which wind energy has a highest share of 1385.65 MW (67.73%) followed by Private sector having capacity addition of 386.06 MW (18.87%), Central sector having capacity addition of 146.9 MW (7.18%), Solar energy having capacity addition of 125.76 MW (6.15%) and State sector having capacity addition of 1.1 MW (0.05%) Overall renewable addition during FY 2016-17 was 1511.41 MW (73.88% of total capacity addition) which was highest compared to other sources during the year. During FY 2015-16 and FY 2016-17, Bhavnagar Energy Company Limited Unit 1 of 250 MW was declared commercial while, 300 MW of Essar Power, 145 MW of Gujarat Industrial Power Corporation Limited Stage I, 165 MW of Gujarat Industrial Power Corporation Limited Stage II are removed from energy basket as PPA of these stations expired. Also, 240 MW of Gandhinagar Thermal Power Station Units 1 and 2 and 135 MW of Utran Gas Power Plant were decommissioned due to plant life and expiry of PPA.

Actual power supply position in the State in terms of Energy Requirement vis-à-vis Energy Availability and demand for the State during FY 2016-17

State	Requirement	Availability	Surplus (+)		Requirement	Availability	Surplus (+)	
	during the	during the	/Deficit (-)		during the	during the	/Deficit (-)	
	year 2015-16	year 2015-16			year 2016-17	year 2016-17		
			Mus	(%)			Mus	(%)
Gujarat	14495 MUs	14448 MUs	-47	-0.3	14724 MUs	14719 MUs	-5	0.1

Source CEA LGBR Report

The energy requirement of the State during the year 2016-17 was 160 MUs higher compared to the year 2015-16. The energy requirement during the year 2016-17 was met with deficit of 1 Mus.

The peak demand during the year 2016-17 was 229 MW higher compared to the year 2015-16. This demand was catered during the month of March 2017. This demand was almost met with deficit of 5 MW with Central Sector having 40% share in meeting the demand. Energy and demand deficit were lower compared to the year 2015-16.

**Fuel Profile:**

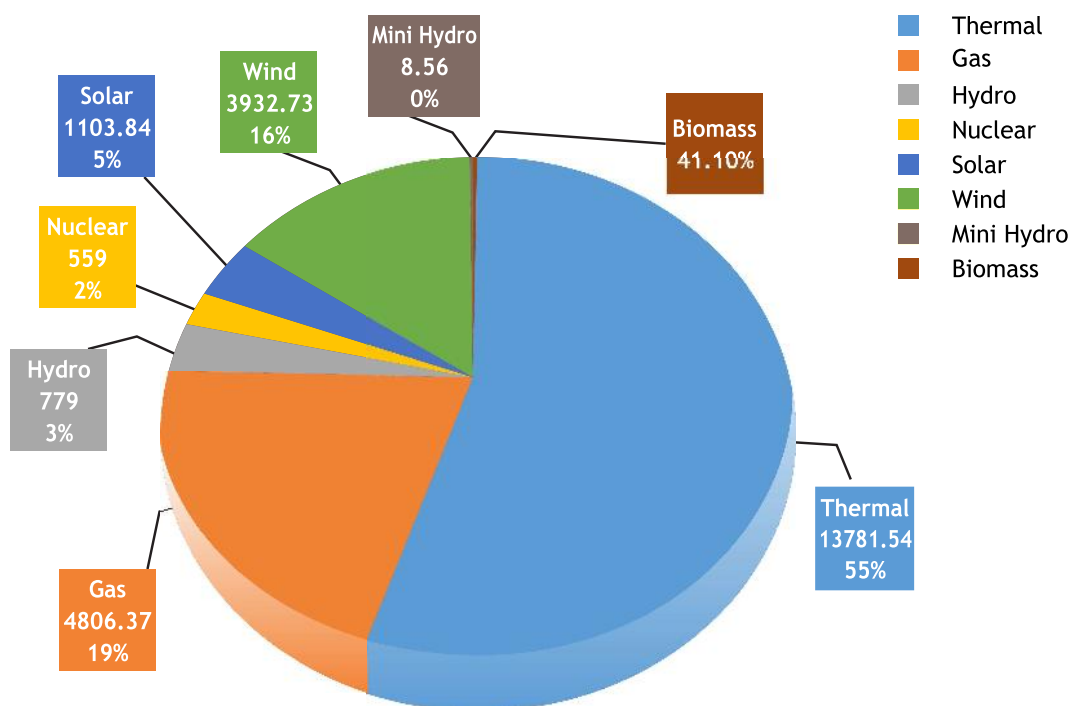
Fuel profile of the State Generating Stations at the end of FY 2016-17 is as under;

Particulars	As on 31-03-2016		As on 31-03-2017	
	Capacity(MW)	Share (%)	Capacity(MW)	Share (%)
Thermal	13781.54	55.10%	14188	52.44%
Gas	4806.37	19.22%	4934	18.23%
Hydro	779	3.11%	779	2.88%
Nuclear	559	2.23%	559	2.07%
Solar	1103.84	4.41%	1230	4.54%
Wind	3932.73	15.72%	5318	19.66%
Mini Hydro	8.56	0.03%	9	0.03%
Biomass	41.10	0.16%	41	0.15%
Total	25012.14	100.00%	27058	100%

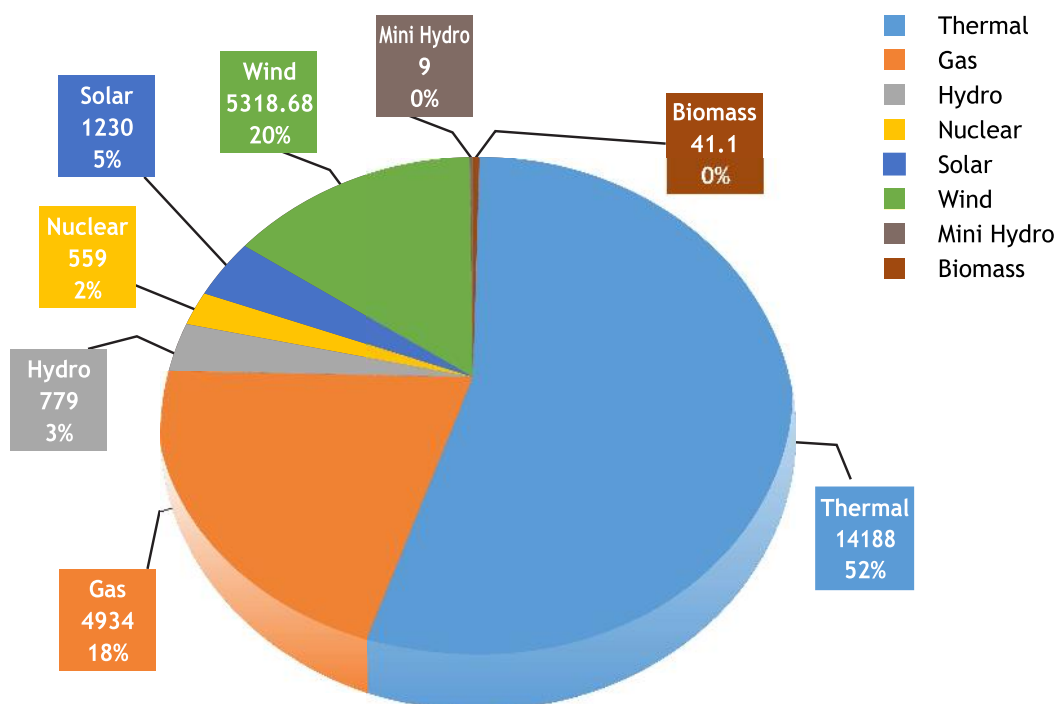
Source - GETCO MIS reports for the month of March 2015 and March 2017



As on 31-03-2016 Capacity (MW)



As on 31-03-2017 Capacity (MW)





This year saw leading capacity addition in renewable based energy generation (Wind, Solar) installed capacity of 1511.41 MW. Total fuel wise capacity addition during FY 2015-16 was 1014.8 MW and during FY 2016-17 was 2045.86 MW. Though, there were capacity additions in Thermal and Gas based energy generation sources during the year 2016-17, overall percentage share with respect to total fuel wise installed capacity decreased for both energy sources (thermal and gas) during the year 2016-17 compared to the year 2015-16.

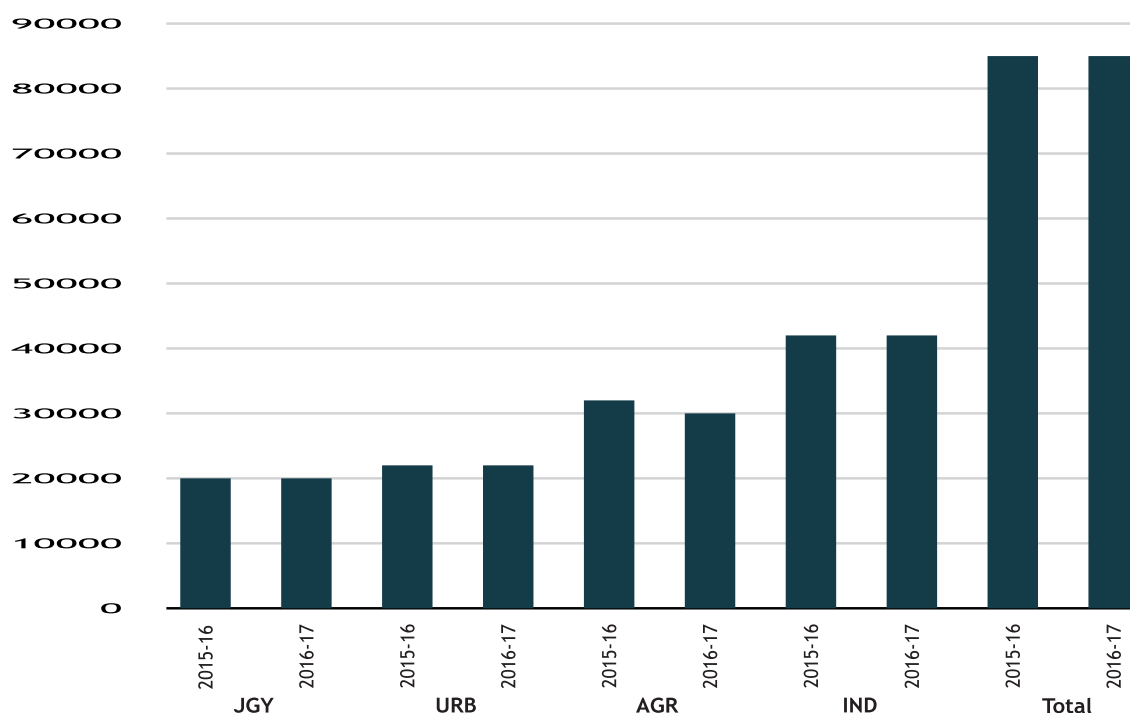
Category wise energy catered in Mus during FY 2016-17

	JGY Mus		URB Mus		AGR Mus		IND Mus		Total	
	2015-16	2016-17	2015-16	2016-17	2015-16	2016-17	2015-16	2016-17	2015-16	2016-17
Total	12280	12614	13382	13577	23496	21713	33382	35006	82540	82910
% change		2.72%		1.46%		(-) 7.59%		4.86%		0.45%
w.r.t previous year										

Out of total energy catered during FY 2015-16, share of industrial sector was 40.44% which was 40.74% during FY 2014-15. This was followed by Agriculture sector which was 28.46%, Urban sector which was 16.21% and at last was JGY category which had share of 14.87%.

Energy catered during FY 2016-17 was 0.45% higher than previous year with industrial category having highest share (42.22%) followed by agriculture category (26.19%), urban category (16.37%) and at last JGY category (15.21%).

Energy Catered MUs





DISCOM wise energy catered in Mus during FY 2016-17

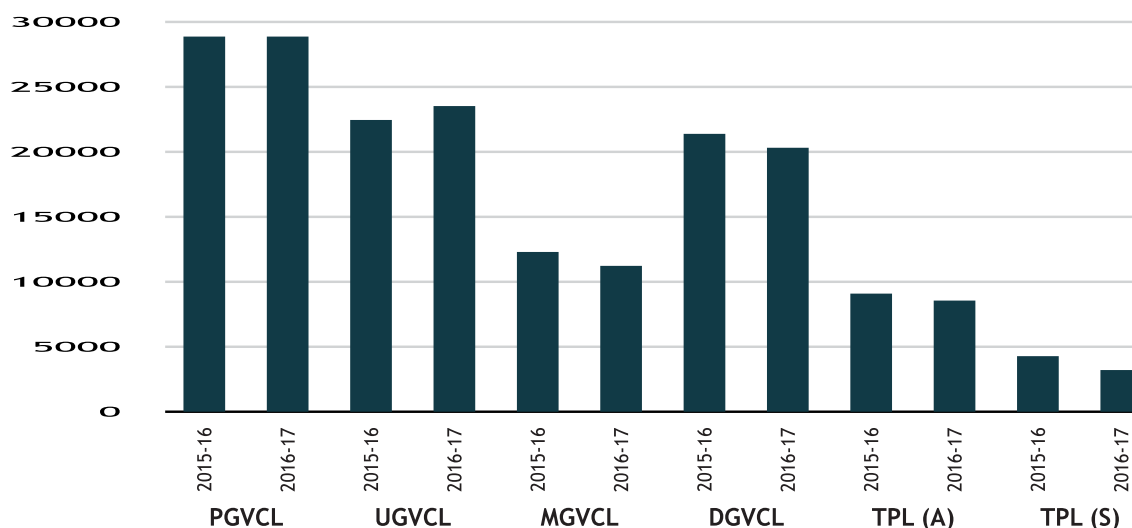
Month	PGVCL		UGVCL		MGVCL		DGVCL		TPL (A)		TPL (S)	
	2015-16	2016-17	2015-16	2016-17	2015-16	2016-17	2015-16	2016-17	2015-16	2016-17	2015-16	2016-17
Total	29096	29169	21376	21884	11838	11769	20234	20319	7949	8026	3532	3438
% rise												
w.r.t												
previous												
year		0.25%		2.38%		(-)0.58%		0.42%		0.97%		(-)2.66%

PGVCL was at the top in energy catered during FY 2015-16 having 30.94% of total energy catered followed by UGVCL (22.73%), DGVCL (21.52%), MGVCL (12.59%), TPL (A) (8.45%) and TPL (S) (3.76%).



There was 0.62% rise in energy catered by distribution utilities during FY 2016-17 compared to previous year. PGVCL was amongst the highest in energy catered with share of 30.83% followed by UGVCL (23.13%), DGVCL (21.48%), MGVCL (12.44%), TPL (D) - A (8.48%) and TPL (D) - S (3.63%).

Energy Catered MUs



Status of Transmission System in the State:

An overview of the transmission system in the state under the State Transmission Utility; namely the Gujarat Electricity Transmission Corporation Ltd. (GETCO);

Voltage	No. of Sub stations				Transmission Line in Ckt.km			
	As on	As on	As on	As on	As on	As on	As on	As on
	1-03-2014	31-03-2015	31-03-2016	31-03-2017	31-03-2014	31-03-2015	31-03-2016	31-03-2017
400 KV	11	12	13	14	3906	4052	4301	5015
220 KV	88	94	99	99	16276	16987	17847	18805
132 KV	51	54	55	56	5003	5072	5333	5436
66/33 KV	1320	1410	1503	1601	24946	26421	27987	29251
Total	1470	1570	1670	1770	50131	52532	55468	58507

Source - GETCO



During FY 2015-16 transmission loss were 3.76%, Substation availability was 99.85% and line availability was 99.60%.

Status of short-term Open Access applications processed during the year:

Status of short-term Open Access applications processed during FY 2013-14, FY 2014-15, FY 2015-16 and FY 2016-17 by the State Load Dispatch Centre is given below:

Year	No. of Application Received	No. of Application Approved	No. of Application Rejected
2013-14	6827	6463	364
2014-15	5158	3602	1553
2015-16	5021	4318	698
2016-17	5408	5107	298

Source: GETCO



ANNEXURE - 1

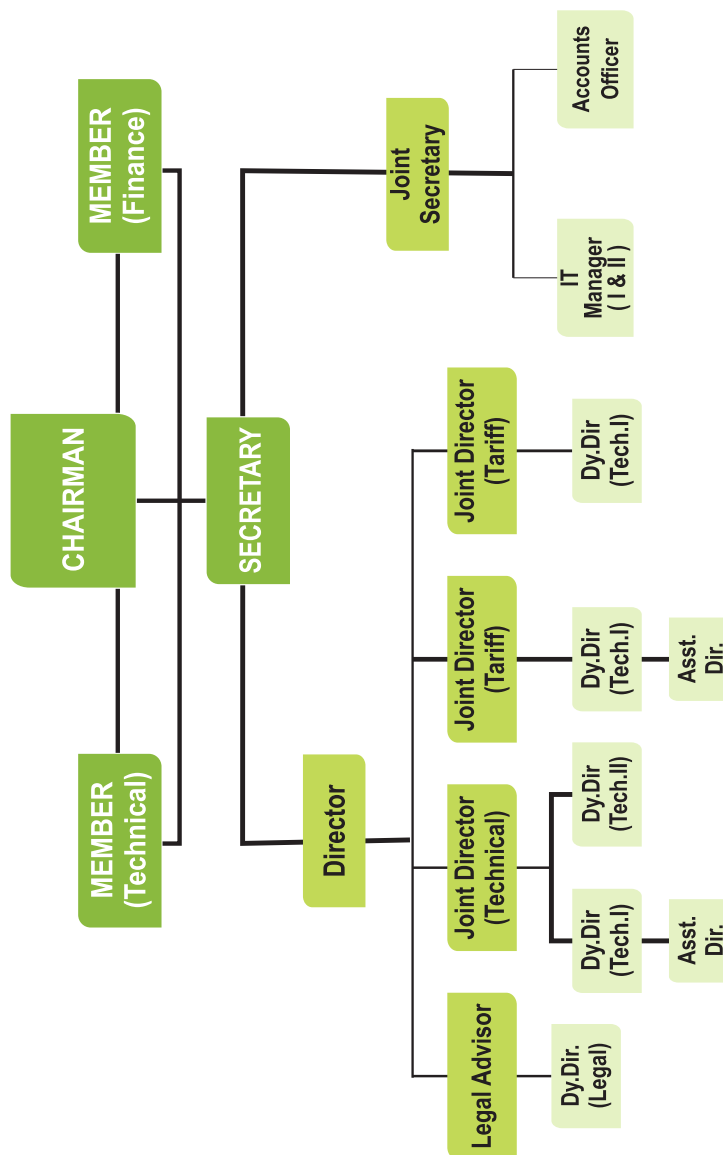
Positions Within The Commission

Sr. No.	Name of the Post	No. of Posts sanctioned	On Deputation	No. of Post Filled		Vacant Post
				On Contract	Permanent Basis	
1	Secretary	1	1	0	0	0
2	Director	1	0	0	0	1
3	Joint Director	3	1	0	1	1
4	Legal Advisor	1	1	0	0	0
5	Deputy Director	6	2	0	1	3
6	Accounts Officer	1	0	0	0	1
7	Assistant Director	2	0	0	0	2
8	IT Manager	2	1	0	0	1
9	PA (English Steno)	4	1	0	2	1
10	PA (Gujarati Steno)	1	0	0	1	0
11	Executive	9	3	0	6	0
12	Junior Assistant	2	0	1	0	1
13	Librarian	1	0	0	0	1
14	Receptionist	1	1	0	0	0
15	Telephone Operator	1	0	0	0	1
16	Driver-Cum-Attendant	8	0	2	5	1
17	Peon	6	0	0	4	2
	Total	50	11	3	20	16



ANNEXURE - 2

Organisation Sturcture of GERC





ANNEXURE - 3

Details of petitions disposed of during the year 2016-17

Sl.No.	Petition No.	Petitioner (s)/Respondent (s)	Subject Matter
1	1579/2016	Gujarat State Electricity Corporation Limited (GSECL) Vs. Gujarat Urja Vikas Nigam Limited (GUVNL)	Rectification Petition in the matter of GERC Order dtd. 31.03.2016 against Petition No. 1544/2015 for True up of FY 2014-15 under Clause 72 (1) of "Conduct of Business" Regulations.
2	1575/2016	Uttar Gujarat Vij Company Limited	Petition for approval of the Gujarat Electricity Regulatory Commission for implementation of Domestic Efficient Lighting Program (DELP) for LED bulbs in the area of State Owned DISCOMs (UGVCL, MGVCL, PGVCL and DGVCL) under Demand Side Management activities.
3	1576/2016	Madhya Gujarat Vij Company Limited	Petition for approval of the Gujarat Electricity Regulatory Commission for implementation of Domestic Efficient Lighting Program (DELP) for LED bulbs in the area of State Owned DISCOMs (UGVCL, MGVCL, PGVCL and DGVCL) under Demand Side Management activities.
4	1577/2016	Paschim Gujarat Vij Company Limited	Petition for approval of the Gujarat Electricity Regulatory Commission for implementation of Domestic Efficient Lighting Program (DELP) for LED bulbs in the area of State Owned DISCOMs (UGVCL, MGVCL, PGVCL and DGVCL) under Demand Side Management activities.
5	1578/2016	Dakshin Gujarat Vij Company Limited	Petition for approval of the Gujarat Electricity Regulatory Commission for implementation of Domestic Efficient Lighting Program (DELP) for LED bulbs in the area of State Owned DISCOMs (UGVCL, MGVCL, PGVCL and DGVCL) under Demand Side Management activities.
6	1586/2016	Torrent Power Limited Ahmedabad	Petition for approval of the Gujarat Electricity Regulatory Commission for implementation of Domestic Efficient Lighting Program (DELP) for LED bulbs in the area of Torrent Power Limited Ahmedabad (for Ahmedabad and Gandhinagar areas) and Torrent Power Limited-Surat (for Surat area) under Demand Side Management activities.



Sl.No.	Petition No.	Petitioner (s)/Respondent (s)	Subject Matter
7	1587/2016	Torrent Power Limited Surat	Petition for approval of the Gujarat Electricity Regulatory Commission for implementation of Domestic Efficient Lighting Program (DELP) for LED bulbs in the area of Torrent Power Limited Ahmedabad (for Ahmedabad and Gandhinagar areas) and Torrent Power Limited-Surat (for Surat area) under Demand Side Management activities.
8	SM 1565/2016	Abellon Clean Energy Limited and Ors	Extension of applicability of generic tariff Order No. 4 of 2013 dated 08.08.2013 in the matter of "Determination of Tariff for procurement of power by the Distribution Licensees and Others from Biomass based Power Projects and Bagasse based Co generation Projects till the issuance of the generic tariff order for the next control period by the Commission.
9	SM 1564/2016	Indian Wind Power Association and Ors.	Extension of applicability of generic tariff Order No. 2 of 2012 dated 08.08.2012 in the matter of "Determination of Tariff for procurement of power by the Distribution Licensees and Others from Wind Power Projects" till issuance of the generic tariff order for the next control period by the Commission.
10	1512/2015	Steelcast Limited Vs. State Load Despatch Centre Gujarat Energy Transmission Corporation Limited	Petition under Section 94 of the Electricity Act, 2003 and Regulation 45 read with Regulation 21 of GERC (Terms and Conditions of Intra-state Open Access) Regulations, 2011, Notification No. 3 of 2011 for Intra-State Open Access, against Short-Term Open Access transmission charges collected by SLDC for days for which the power is non-traded/under traded after receiving NOC from SLDC for respective months and for refund of ₹. 15,94,024.00 paid to SLDC against total of their demand dated 28.01.2015 and 16.04.2015.
11	1570/2016	Energy & Petrochemical Dept. Vs. Torrent Power Limited Ahmedabad	Tariff for agricultural consumers of Torrent Power Limited (Ahmedabad Unit)
12	1515/2016	Saanika Industries Private Limited Vs SLDC Indian Energy Exchange	Petition under Regulation 45 of GERC (Terms and Conditions of Intra-State Open Access) Regulations, 2011 for illegal levy of transmission charges for non traded days and short traded days in case of



Sl.No.	Petition No.	Petitioner (s)/Respondent (s)	Subject Matter
			collective transactions.
13	1516/2016	Kejriwal Geotech Private Limited Vs. SLDC Indian Energy Exchange	Petition under Regulation 45 of GERC (Terms and Conditions of Intra-State Open Access) Regulations, 2011 for illegal levy of transmission charges for non traded days and short traded days in case of collective transactions.
14	1580/2016	Torrent Power Limited	Petition for approval of Short Term Power Purchase arrangement for sourcing of power to cater to the demand of Dahej SEZ License area under the provisions of the Guidelines for power procurement by distribution licensee issued by the Commission on 14.8.2013 read with Section 86 (1) (b) of the Electricity Act, 2003
15	1581/2016	Torrent Power Limited	Petition for approval of Short Term Power Purchase arrangement for sourcing of power to cater to the demand of Ahmedabad-Gandhinagar and Surat License area under the provisions of the Guidelines for power procurement by distribution licensee issued by the Commission on 14.8.2013 read with Section 86 (1) (b) of the Electricity Act, 2003
16	1531/2015	Gujarat Urja Vikas Nigam Limited Vs Oreva Energy Private Limited	Petition under Section 94 of the Electricity Act, 2003 by the Commission in Petition No.1424 of 2014.
17	1567/2016	Gujarat Granito Manufacturer's Association Vs. State Load Despatch Centre, Paschim Gujarat Vij Company Limited	Petition under Section 94 of the Electricity Act, 2003 read with Regulation 26.1 of GERC Regulation 2 of 2004, and Regulation 3 of 2011 for Intra-State Open Access Regulations,2011, against notice issued by SLDC for withdrawal of consent granted for Short Term Open Access under the provisions of GERC (Terms and Conditions of Intra-State Open Access) Regulations, 2011
18	1459/2014	Gujarat Urja Vikas Nigam Limited Vs Nitash Co generation Private Limited	Petition for adjudication of disputes between Gujarat Urja Vikas Nigam Limited and Nitash Co generation Private Limited under Section 86 and 142 of the Electricity Act, 2003 and Regulation 86 of GERC (Conduct of Business) Regulations, 2004 for execution of the order dated 6.11.2012 passed by the Commission in Petition No. 1202 of 2012.



Sl.No.	Petition No.	Petitioner (s)/Respondent (s)	Subject Matter
19	1525/2014	Utility Users' Welfare Association. Vs. Essar Power Gujarat Limited GUVNL	Petition under Section 94 (1) (f) of the Electricity Act, 2003 read with Clause 72 (1) of GERC (Conduct of Business) Regulations, 2004 for review of order dated 01.12.2014 in Petition No. 1432 of 2014 and order dated 29.03.2014 in Petition No. 1296 of 2013.
20	1598/2016	Gujarat Narmada Valley Fertilizers and Chemicals Limited Vs Gujarat Energy Development Agency.	Petition under Clause 12 of Gujarat Electricity Regulatory Commission (Procurement of Energy from Renewable Sources) Regulations, 2010 read with Notification No. 2 of 2015 dated 01.07.2015
21	SM 1609/2016	Kothi Steel Limited MGVL, UGVCL, PGVCL, DGVCL,	Suo-Motu proceedings in the matter of directions given by Hon'ble High Court of Gujarat in SCA No. 8462 of 2014 vide its Order dated 21.9.2016
22	1533/2015	Green Energy Association Vs Torrent Power Limited Ahmedabad, Surat, Dahej, MPSEZ Utilities Private Limited, Gujarat Energy Development Agency.	Non-Compliance of Solar RPO for 2014-15 by the Obligated entities specified in GERC (Procurement of Energy from Renewable Sources) (First Amendment) Regulations, 2014 and in the matter of an application under Section 142 and 146 of the EA, 2003 and GERC (Procurement of Energy from Renewable Sources) Regulations, 2010
23	1518/2015	Gujarat Urja Vikas Nigam Limited, Madhya Gujarat Vij Company Limited Uttar Gujarat Vij Company Limited, Paschim Gujarat Vij Company Limited, Dakshin Gujarat Vij Company Limited Vs. Consumer Education & Research Society, Indian Wind Energy Association Indian Wind Power Association	Petition under GERC (Procurement of Energy from Renewable Sources), Regulations, 2010 and (its First Amendment) Regulations, 2014 for revision of targets of Renewable Purchase Obligation (RPO) in case of four subsidiary distribution companies of GUVNL for FY 2014-15.
24	SM 1542/2015	Torrent Energy Limited, Kandla Port Trust MPSEZ Utilities Private Limited, Jubilant Infrastructure Limited, Aspen Infrastructure Limited, GIFT Power Company Ltd., Gujarat Energy Development Agency, Utility Users' Welfare	Monitoring of RPO Compliance of the obligated entities for FY 2014-15 of GERC (Procurement of Energy from Renewable Sources) Regulations, 2010 and GERC (Procurement of Energy from Renewable Sources) (First Amendment) Regulations, 2014, notified by the Commission.



Sl.No.	Petition No.	Petitioner (s)/Respondent (s)	Subject Matter
		Association, Indian Wind Power Association, Indian Wind Energy Association	
25	1536/2015	Torrent Power Limited Vs Consumer Education Research Society Indian Wind Energy Association, Utility Users' Welfare Association.	Revision of targets of minimum quantum of purchase (in %) from renewable energy sources for the FY 2014-15 in view of supply constraints or other factors beyond the control of the licensee under the provisions of Regulation 4.2 of GERC (Procurement of Energy from Renewable Sources) Regulations, 2010
26	1634/2017	Bhavani Industries Vs. Paschim Gujarat Vij Company Limited State Load Despatch Centre	Petition under Sections 42, 68 and 86 of the Electricity Act, 2003 and Regulation 45 of GERC (Terms and Conditions of Intra-State Open Access) Regulations, 2011 for arbitrary denial for procurement of power under Short Term Open Access.
27	1560/2016	Aspen Infrastructure Limited	Truing up for FY 2014-15, Approval of Provisional ARR for FY 2016-17 and Determination of Tariff for FY 2016-17.
28	1562/2016	Kandla Port Trust	Truing up for FY 2014-15, Approval of Provisional ARR for FY 2016-17 and Determination of Tariff for FY 2016-17.
29	1619/2016	Gujarat State Electricity Corporation Limited	Truing up for FY 2015-16, Approval of Final ARR for FY 2016-17, Approval of Multi-Year ARR for FY 2016-17 to FY 2020-21 and Determination of Tariff for FY 2017-18
30	1620/2016	Gujarat Energy Transmission Corporation Limited	Truing up for FY 2015-16, Approval of Final ARR for FY 2016-17, Approval of Multi-Year ARR for FY 2016-17 to FY 2020-21 and Determination of Tariff for FY 2017-18
31	1621/2016	State Load Despatch Centre	Truing up for FY 2015-16, Approval of Final ARR for FY 2016-17, Approval of Multi-Year ARR for FY 2016-17 to FY 2020-21 and Determination of SLDC Fees and Charges for FY 2017-18
32	1622/2016	Uttar Gujarat Vij Company Limited	Truing up for FY 2015-16, Approval of Final ARR for FY 2016-17, Approval of Multi-Year ARR for FY 2016-17 to FY 2020-21 and Determination of Tariff for FY 2017-18
33	1623/2016	Dakshin Gujarat Vij Company Limited	Truing up for FY 2015-16, Approval of Final ARR for FY 2016-17, Approval of Multi-Year ARR for FY 2016-



Sl.No.	Petition No.	Petitioner (s)/Respondent (s)	Subject Matter
			17 to FY 2020-21 and Determination of Tariff for FY 2017-18
34	1624/2016	Madhya Gujarat Vij Company Limited	Truing up for FY 2015-16, Approval of Final ARR for FY 2016-17, Approval of Multi-Year ARR for FY 2016-17 to FY 2020-21 and Determination of Tariff for FY 2017-18
35	1625/2016	Paschim Gujarat Vij Company Limited	Truing up for FY 2015-16, Approval of Final ARR for FY 2016-17, Approval of Multi-Year ARR for FY 2016-17 to FY 2020-21 and Determination of Tariff for FY 2017-18
36	1631/2016	MPSEZ Utilities Private Limited	Truing up for FY 2015-16, Approval of Final ARR for FY 2016-17, Approval of Multi-Year ARR for FY 2017-18 to FY 2020-21 and Determination of Tariff for FY 2017-18
37	1630/2016	Gujarat Fluro Chemicals Limited Vs State Load Despatch Centre Dakshin Gujarat Vij Company Limited Gujarat Urja Vikas Nigam	Petition under Section 86 (1)(f) of the Electricity Act, 2003 read with GERC (Terms and Conditions of Intra-State Open Access) Regulations, 2011 challenging denial of Standing Clearance for Short Limited-Term Open Access for the month of October, 2016.



ANNEXURE - 4

Details of Regulations/Orders Notified by the Commission

Sr No	Name of Regulation	Notification Number	Date of Notification
1	Staff Service Regulation (repealed)	Extra No. 55	19/07/2001
2	Conduct of Business	02 of 2004	25/08/2004
3	Establishment of Ombudsman for Redressal of Grievances of Consumers (repealed)	03 of 2004	25/08/2004
4	Establishment of Forum for Redressal of Grievances of Consumers (repealed)	04 of 2004	25/08/2004
5	Grid Code (Repealed)	05 of 2004	25/08/2004
6	Distribution Code	06 of 2004	25/08/2004
	First Amendment	GERC/Tech-I	26/10/2006
	Second Amendment	1/2296/2006	
		01 of 2016	05/02/2016
7	Procedure for filing Appeal before the Appellate Authority Regulations	01 of 2005	05/01/2005
8	Licensing of Transmission	02 of 2005	30/03/2005
9	Licensing of Electricity Trading	03 of 2005	30/03/2005
10	Licensing of Distribution of Electricity	04 of 2005	30/03/2005
11	Levy and Collection of Fees and charges by SLDC Regulations	05 of 2005	30/03/2005
	First Amendment	03 of 2016	18/02/2016
12	Fees, Fines and Charges Regulations, (First Amendment)	06 of 2005	30/03/2005
		01 of 2015	22/09/2015
13	Power System Management Standards	07 of 2005	30/03/2005
14	Security Deposit Regulations	08 of 2005	05 of 2010
	First Amendment (Repealed)	03 of 2015	31/03/2005
	Second Amendment	02/08/2010	15/07/2015
15	Licensee's Power to recover expenditure incurred in providing supply and miscellaneous charges	09 of 2005	31/03/2005
	First Amendment	02 of 2010	05/03/2010
16	Standard of Performance of Distribution Licensee	10 of 2005	31/03/2005
17	Terms and Conditions of Tariff (repealed)	12 of 2005	31/03/2005
18	Orders on Procedure		03/08/2005
19	Open Access (repealed)	13 of 2005	29/09/2005
20	Appointment of Consultant	14 of 2005	29/10/2005
21	Power Procurement from Renewable sources Regulations (Repealed)	15 of 2005	29/10/2005



Sr No	Name of Regulation	Notification Number	Date of Notification
22	Electricity Supply Code and Related Matters	11 of 2005	31/03/2005
	First Amendment (GERC/Tech-I/2277/2005)*		14/12/2005
	Second Amendment (GERC/Tech-II/2097/2006*		25/09/2006
	Third Amendment*	06 of 2010	20/08/2010
	Fourth Amendment(GERC/Tech-II/1229/2012)**Repealed		18/06/2012
23	Multi Year Tariff Regulation 2007 (repealed)	1 of 2007	30/11/2007
24	Authorising Officers of DISCOMs		23/01/2008
25	Fixing of Trading Margin	1 of 2010	16/02/2010
26	Power procurement from renewable sources	3 of 2010	17/04/2010
	First Amendment	2 of 2014	04/03/2014
27	Designating State Nodal Agency for REC	04 of 2010	16/07/2010
28	Multi Year Tariff Regulations 2011 (Repealed)	1 of 2011	22/03/2011
	First Amendment (Repealed)	2 of 2016	19/02/2016
29	Recruitment and Service Conditions of Secretary and Staff	2059/2011	28/11/2011
30	Consumer Grievances Redressal Forum & Ombudsman Regulations,2011	02 of 2011	07/04/2011
31	Terms and Condition of Intra-State Open Access	03 of 2011	01/06/2011
32	Fixing of Trading Margin(First Amendment)	04 of 2011	09/12/2011
33	Demand Side Management	01 of 2012	08/05/2012
34	Grid Code	GERC/	16/07/2013
		Notification/	
		2013/1424	
35	Guidelines for procurement of power by distribution license	02 of 2013	14/08/2013
36	Terms and Conditions of Intra-State Open Access (First Amendment)	01 of 2014	04/03/2014
37	Procurement of Energy from Renewable Sources - Regulations 2010		
	(First Amendment)	02 of 2014	04/03/2014
38	Terms and Conditions of Intra-State Open Access (Second Amendment)	03 of 2014	12/08/2014
39	Electricity Supply Code and Related Matters	04 of 2015	22/09/2015
	First Amendment	06 of 2016	23/11/2015
40	Applicability of procurement of energy from renewable sources to		
	captive and open access users	02 of 2015	01/07/2015
41	Multi Year Tariff Regulation-2016	04 of 2016	28/03/2016
	First Amendment	07 of 2016	02/12/2016



ANNEXURE - 5

Details of Locations of Consumer Grievances Redressal Forums

DGVCL - Forum	Convener, CGRF, Dakshin Gujarat Vij Company Limited, Dakshin Gujarat Vij Seva Sadan, Registered & Corporate Office, Kapodara Char Rasta, Nana Varachha Road, Surat-395006. (T) : 0261-2804238 Fax : 0261-2572636 Email: eegerc.dgvcl@gebmail.com
MGVCL - Forum	Convener, CGRF, Madhya Gujarat Vij Company Ltd., 5 th Floor, SP Vidhyut Bhavan, Race Course, Vadodara-390007. (T) : 0265-2338103 Fax : 0265-2340692 Email: serc.mgvcl@gebmail.com
PGVCL - Rajkot Forum	Convener, CGRF, Paschim Gujarat Vij Company Ltd., Paschim Gujarat Vij Seva Sadan, Registered & Corporate office, Nana Mava main Road, Laxminagar, Rajkot - 360004. (T) : 0281-2380425 / 2380427 Fax : 0281-2380428 Email: forum.pgvcl@gebmail.com
PGVCL - Bhavnagar Forum	Convener, CGRF, Paschim Gujarat Vij Company Ltd., Zonal Office, Old Power House Compound, Chavadi gate, Bhavnagar-364002. (T) : 0278-2521760/61/62 Fax : 0278-2521763 Email: forumbhavnagar.pgvcl@gebmail.com
PGVCL - Bhuj Forum	Convener, CGRF, Paschim Gujarat Vij Company Ltd., Zonal Office, Power House Compound, Hospital Road, Bhuj(kutch) - 370001. (T) : 02832-258032/253550/255377 Fax : 02832-2255048 Email: cgrfbhuj.pgvcl@gebmail.com



UGVCL - Forum	Convener, CGRF, Uttar Gujarat Vij Company Limited, Near Torrent AEC, Railway Crossing, Sabarmati , Ahmedabad-380005. (T) : (079) 27500981,27500214 Fax : (079) 27500981 Email: forum@ugvcl.com
TPL - Redressal Forum, Ahmedabad	Convener, CGRF, Torrent Power Ltd., 1 st Floor, New Building, Navranpura Centerl Office, Sola Cross Road, Navrangpura, Ahmedabad-380013. (T) : 079-25502881 (Extn. 5940) Fax : 079-27492222 Email: consumerforum@torrentpower.com
TPL - Redressal Forum, Surat	Convener, CGRF, Torrent Power Ltd., Torrent House, 1 st Floor, Station Road, Surat-395003. (T) : 0261-2400240, (Extn. 8326) Fax : 0261-2422171 Email: consumerforumtps@torrentpower.com
Ombudsman	Office of the Ombudsman, Barrack No.3, Polytechnic Compound, Ambawadi, Ahmedabad-380009. (T) : 079-26302689 Email: ombudsman@gercin.org



ANNEXURE - 6

Redressal of Consumer Complaints at CGRFs in the year of FY 2016-17

Sr. No.	Name of Forum	Grievance Pending at the end of the year	Grievance received during the year	Total Grievance In the year	Grievance redressed during year	Pending Grievance at the end of the year	No. of Grievance In Favour of Licensee	No. of Grievance In Favour of Consumers	Other	Number of Sittings
1	UGVCL	11	68	79	75	4	38	24	13	19
2	MGVCL	3	30	30	29	0	18	7	4	13
3	DGVCL	10	223	233	230	3	44	106	80	45
4	PGVCL	2	50	52	52	0	24	19	9	28
	(Bhuj)									
5	PGVCL	52	349	401	345	56	89	246	10	52
	(Bhavnagar)									
6	PGVCL	17	349	366	348	18	54	217	77	45
	(Rajkot)									
7	TPL	9	77	86	84	2	68	16	0	50
	(Ahmedabad)									
8	TPL	2	39	41	38	3	31	0	7	53
	(Surat)									
	Total	103	1185	1288	1201	86	366	635	200	305



ANNEXURE - 7

Statement Showing the Details of Appeals Redressed by the Electricity Ombudsman during the year 2016-17

Sr. No.	Name of Consumer Forum	No. of Appeals Pending at beginning of the year	No. of Appeals received during year 2016-17	Total No. of Appeals	No. of Appeals disposed of during year 2016-17			No. of Appeals disposed of during year 2016-17	No. of Appeals Pending at the end of the year
					In Favour of Applicant	In Favour of Licensee	Other		
1	PGVCL, Bhavnagar	9	27	36	15	19	2	36	0
2	PGVCL, Rajkot	4	17	21	9	10	2	21	0
3	PGVCL, Bhuj	0	3	3	2	0	1	3	0
4	MGVCL, Vadodara	0	12	12	4	8	0	12	0
5	DGVCL, Surat	3	15	18	11	5	2	17	0
6	UGVCL, Mehsana	5	22	27	12	11	2	24	2
7	TPL, A'bad	5	15	20	1	10	7	16	2
8	TPL, Surat	0	7	7	0	5	2	7	0
	TOTAL	26	118	144	54	68	18	140	4



ANNEXURE - 8

STATUS NATURE OF COMPLAINTS DISPOSED OF Electricity Ombudsman during the year 2016-17

Sr.No.	Nature of complaint	Total
1	New connections	27
2	Agri. Extension of load	0
3	PDC RC of Agri. Connctions	1
4	Default in service provision	2
5	Agri. Shifting of connections	1
6	Meter reading Dispute	0
7	Load reduction Dispute	1
8	Compensation in delay in services provision	4
9	Release of HT conn. & billing	0
10	Recovery of amount against correction factor charges	0
11	Additional Load related dispute	1
12	Tariff related	0
13	Estimate related	22
14	Billing related	27
15	Implementation of Forum order	12
16	Meter accuracy & supplementary bill related	7
17	Space for sub station & related dispute	5
18	Fast meter & refund of Amount paid	1
19	Power Supply Related	0
20	To declare the connection released as illegal	0
21	Interest on security deposit dispute/Refund of SD	4
22	To issue safety certificate	0
23	Reconnection	2
24	Name Change	1
25	To disconnect Power supply	3
26	Meter Burnt Charge	4
27	Line shifting dispute	8
28	Transformer & Line shifting dispute	4
29	Low voltage complaint	0
30	Interest on credit balance amount in bill	0
31	Notice for disconnection for merger of connection option	1
32	Refund of amount paid against Supl. Bill	0
33	Transformer Erection & Compensation dispute	2



Sr.No.	Nature of complaint	Total
34	Under ground cable fault & recovery of charge	0
35	Refund of PF Penalty Charge	0
	Total	140



ANNEXURE - 9

Constitution of the State Advisory Committee

1	Shri Anand Kumar Chairman, Gujarat Electricity Regulatory Commission	Chairman
2	Shri K. M. Shringarpure Member, Gujarat Electricity Regulatory Commission	Member
3	Shri P. J. Thakkar Member, Gujarat Electricity Regulatory Commission	Member
4	Shri Roopwant Singh IAS Secretary, Gujarat Electricity Regulatory Commission,	Secretary to the Committee
5	Principal Secretary Energy & Petrochemicals Department Block No.5 Sardar Bhavan, Sachivalaya, Gandhinagar.	Member
6	Principal Secretary, Food & Civil Supply & Consumer Affairs Department, Sachivalaya, Gandhinagar.	Member
7	President, Gujarat Chamber of Commerce & Industry, Shree Ambica Mill, Gujarat Chamber Building, Nr. Natraj Cinema, Ashram Road, Ahmedabad.	Member
8	Shri Kirtibhai Amin, President Pradesh Kisan Sangh, 7, Municipal Market, 1st Floor, Bagwada Gate, Patan - 384265 (NG)	Member
9	Chairman, Gujarat Council Confederation of Indian Industries, CII House, Gulbai Tekra Road, Near Panchvati, Ahmedabad.	Member
10	President, Rajkot Engineering Industries Association, Bhaktinagar Industrial Estate, Rajkot.	Member
11	President, Southern Gujarat Chamber of & Industry Samruddhi", 4th Floor, Near Makkai Pool, Nanpura, Surat.	Member



11	President, Southern Gujarat Chamber of & Industry Samruddhi”, 4th Floor, Near Makkai Pool, Nanpura, Surat.	Member
12	Chief Electrical Engineer Western Railway, Station Building, Church Gate, Mumbai-400020.	Member
13	President, Bhartiya Kisan Sangh, Sector-12, Balram Mandir Parisar, Gandhinagar.	Member
14	President, Gujarat Khedut Samaj, C/O Bhavanagar Jilla Khedut Samaj, Sardar Smruti, Crescent Chowk, Bhavnagar.	Member
15	Executive Director, Consumer Education and Research Society, Suraksha Sankool, Thaltej, Ahmedabad-380054.	Member
16	Ms. Ila Bhatt, Self Employed Women Association Opp: Victoria Garden, Lal Darwaja, Ahmedabad.	Member
17	Mr. N Dinkar, 107, Mukti Nagar, Near Basil School, Tandalja Road, Vadodara.	Member
18	Representative, Indian Institute of Management, Vastrapur, Ahmedabad.	Member
19	Representative, Institute of Rural Management Anand Gujarat Agri. University Campus, Anand- 388001.	Member
20	Director, Electrical Research and Development Assn., P. B. No. 760, ERDA Road, Makarpura Industrial Estate, Vadodara-390010.	Member
21	Dr. Omkar Jani, Solar Energy Division, Gujarat Energy Research and Management Institute, 303-304, 3 rd Floor, IT Tower-1, Info city, Gandhinagar.	Member



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