

गुजरात
अनर्ज
ट्रान्समिशन
डीपार्ट
मेंट

GEICO

STATE LOAD DISPATCH
CENTRE

GOTRI-390 021



ANNUAL

REPORT

FOR YEAR 2010-11

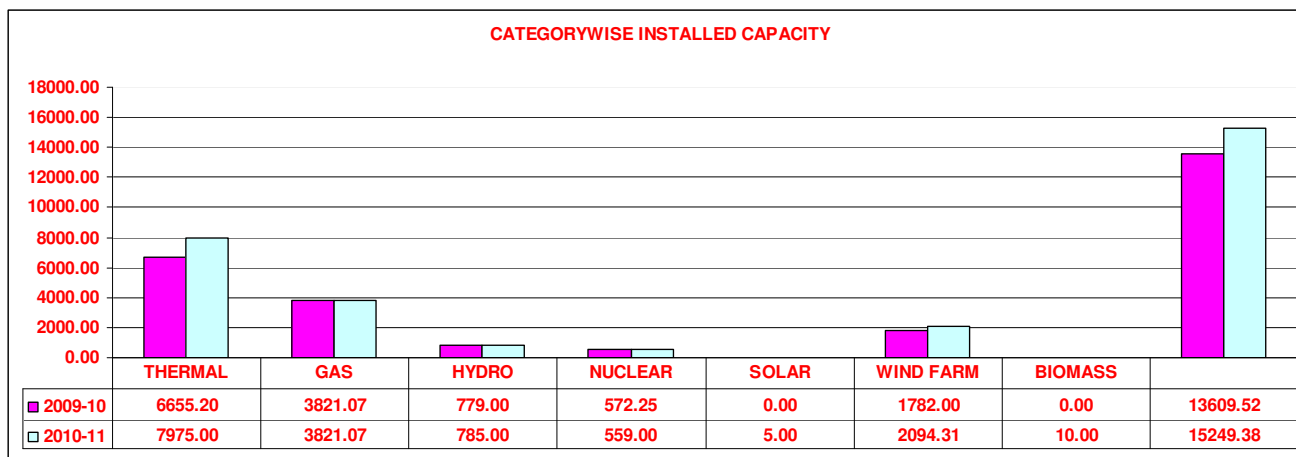
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1. SALIENT FEATURES OF GUJARAT GRID FOR THE YEAR 2009-10 & 2010-11

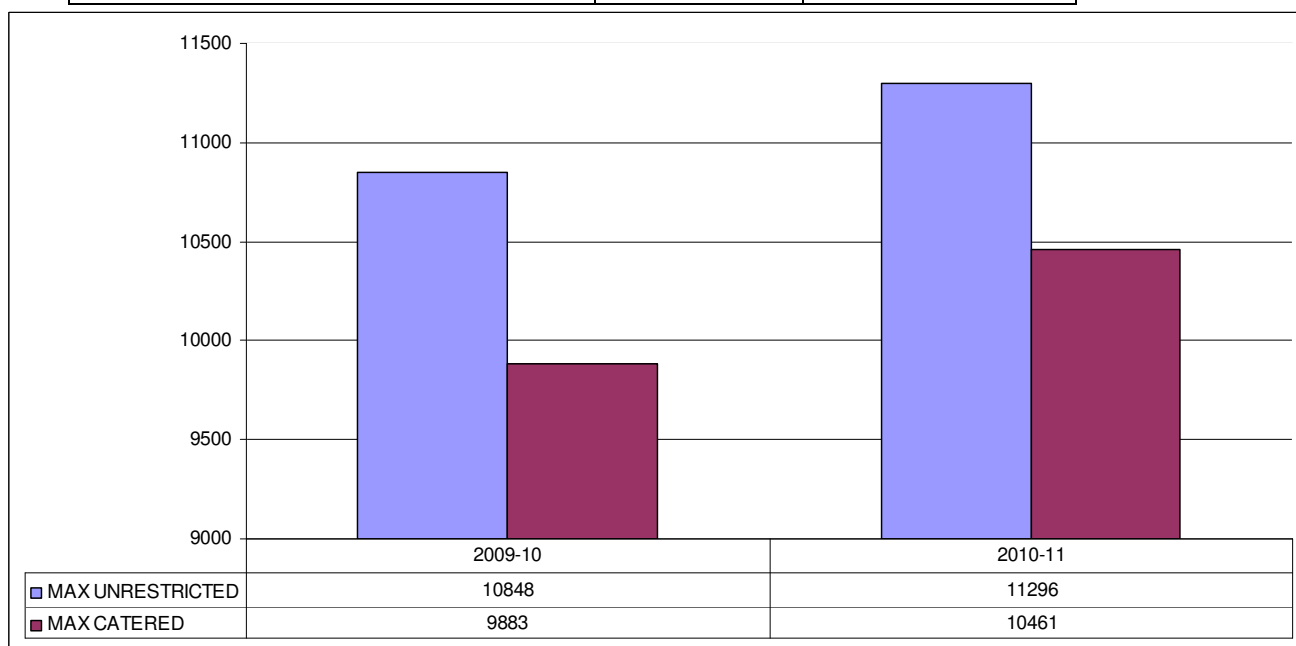
1.1 Installed capacity(GUVNL Share) in MW :

INSTALLED CAPACITY(MW)	STATE SECTOR	PRIVATE SECTOR(With APL)	CENTRAL SECTOR	WIND FARM	SOLAR	BIOMASS	TOTAL GUVNL
2009-10	5215.57	3818.5	2793.45	1782.00	0.00	0.00	13609.52
2010-11	4995.57	5324.50	2820.00	2094.31	5.00	10.00	15249.38



1.2 Peak Demand (MW):

DEMAND	2009-10	2010-11
Max Unrestricted demand During the year	10848	11296
Max Catered During the year	9883	10461
Diff.Shortage(-)/Surplus(+)	-965	-835

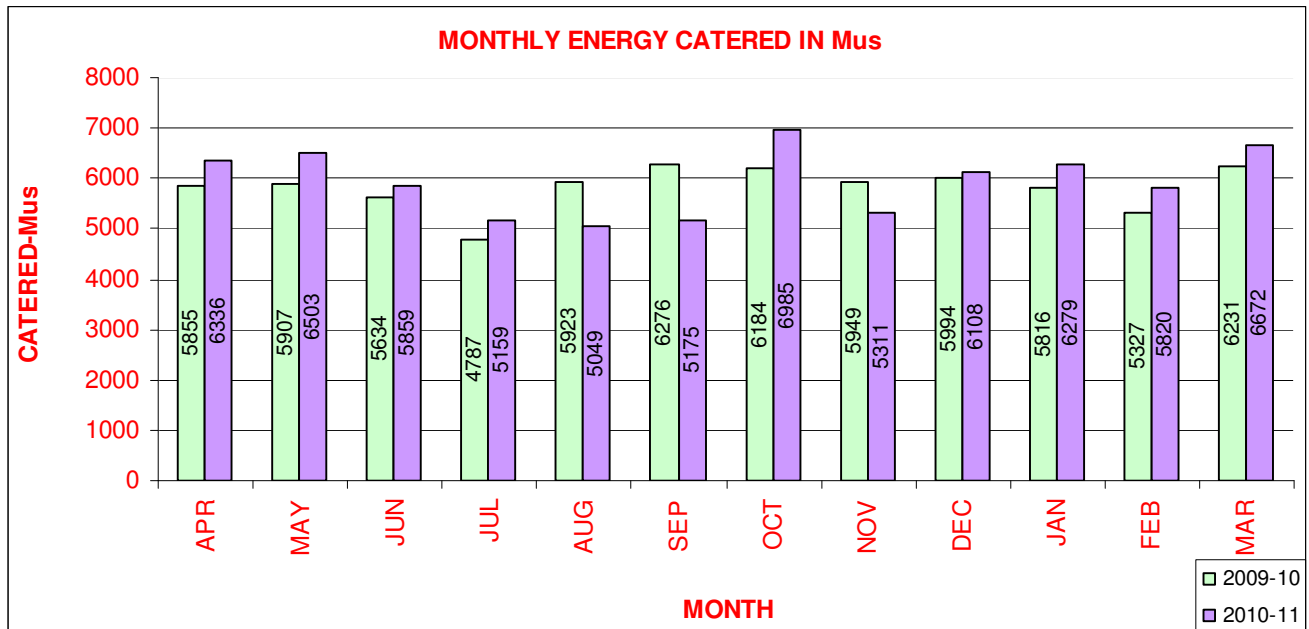


1.3 Energy Exchange from Central Sector(MUs):

Year	2009-10	2010-11
Energy Exchange	13334	7709

1.4 Gujarat Generation in Mus.

MONTH	2009-10	2010-11
APR	5855	6336
MAY	5907	6503
JUN	5634	5859
JUL	4787	5159
AUG	5923	5049
SEP	6276	5175
OCT	6184	6985
NOV	5949	5311
DEC	5994	6108
JAN	5816	6279
FEB	5327	5820
MAR	6231	6672
TOTAL	69883	71256



1.5 Annual Planning of Generating Unit Outages:

Generating Unit Outages	Nos.
2009-10	95
2010-11	83

2. POWER SUPPLY POSITION DURING THE YEAR 2010-11

Gujarat has registered 10461MW max catered during the year 2010-11, which is 5.84% more than the previous year catered. The unrestricted demand during the year was 11296 MW, which is 4.12% more than previous year unrestricted demand (10848MW).The Max. deficit was 835MW during the year 2010-11.

Gujarat energy catered during year 2010-11 was 71256 Mus, which is 1.96%more than the last year energy (69883MW).

Average Frequency during year 2009-10 & 2010-11 were 49.64 Hz & 49.82 Hz. respectively.

Maximum wind injection recorded during the year 2009-10 & 2010-11 were 1183MW & 1350MW.Total wind generation during the year 2009-10 and 2010-11 was 2729Mus & 2815Mus, which was 3.15%more than the previous year. Max wind energy catered was 22.651Mus & 30.296Mus during 09-10 & 10-11 respectively.

Annual unit outage planning was initiated from year 2009-10 in co-ordination with all generators and also annual planning for year 2010-11 was completed successfully.

EHV line outages for various maintenance work, augmentation, hot point attending, testing etc. were permitted after checking system security. Total outage of transmission elements permitted during year 2009-10 & 2010-11 are 7686 Nos. & 9633 Nos. respectively.

Total unit outage approved during 2009-10 & 2010-11 are 95Nos. & 83Nos. respectively.

The major occurrences observed during the year.

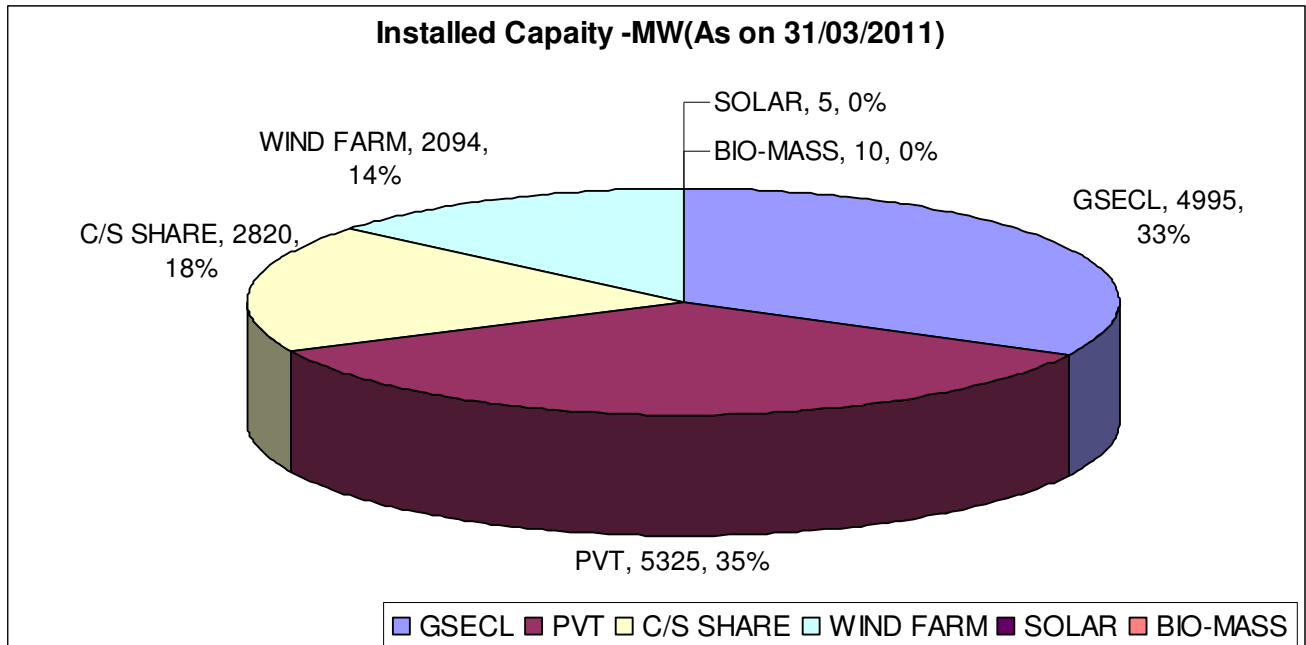
1. On dt.07.04.2010 at 14.17Hrs disturbance occurred at APL switchyard and simultaneously the lines connected with APL,Tapar,kukma and Nanikhakhar were tripped which resulted into a generation loss (@840MW) at APL-1&2(538MW),KLTPS (1to3, 164MW) and ALTPS#1,2(138MW).
2. On dt. 29.8.10, 220Kv Kansari –Jangral D/C line towers fell down in the river Banas, due to Tornado with heavy Cyclone

rain. Both the lines were put back into service after carrying out necessary repairing work on dt.8.9.10.

3. A bus fault occurred on dt.10.11.10, while providing earthing at 220KV Nanikhakher S/S during the process of availing the planned shut down of 220kv Nanikhkhar –Nakhatrana line no.2.
4. On dt.14.3.2011 the Gujarat system experienced a disturbance at 14:45hrs.many transmission lines in kutch area were tripped which resulted into zero power at Nanikhakar, Nakhatrana, KLTPS, Akrimota, Kukma and Tapar s/s from14:45 hrs to 14:55hrs,as well as loss of generation of 1489MW at KLTPS,Akrimota and APL.

3. INSTALLED CAPACITY (MW) OF THE STATE INCLUDING SHARE FROM C/S AS ON 31.3.2011.

OWNERSHIP	THERMAL	GAS	HYDRO	NUCLEAR	SOLAR	WIND MILL	BIOMASS	TOTAL
GSECL	3720	728.57	547	0	0	-	-	4995.57
PRIVATE	2650.00	2668.50	6.00	0.00	5.00	2094.31	10.00	7433.81
C/S(Share of GUVNL)	1605.00	424.0	232	559.00	0.00	-	-	2820.00
TOTAL	7975.00	3821.07	785.0	559.00	5.00	2094.31	10.00	15249.38



4. GENERATING UNITS COMMISSIONED DURING YEAR 2009-10 & 2010-11

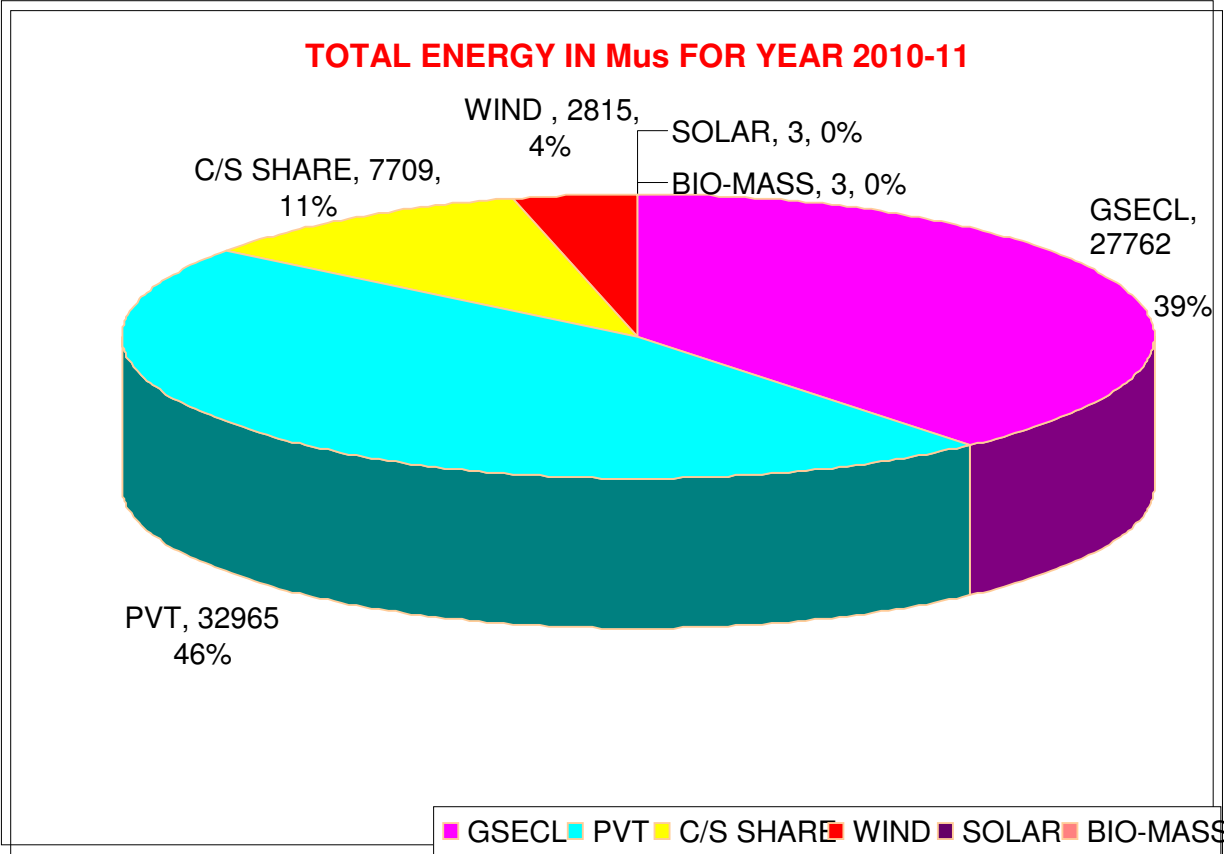
UNIT NAME	2009-10(As on 31/03/2010)	2010-11(As on 31/03/2011)
UTRAN-II	375MW	
KLTPS-4	75 MW	
ADANI -1	330 MW	
ADANI -2	330 MW	
KAHELGOAN-7	47 MW	
SUGEN	1147.5 MW	
SLPP 3		125MW
SLPP 4		125MW
ADANI -3		330 MW
ADANI -4		330 MW
ADANI -5		660 MW
Korba-7		500 MW
Solar-Lanco		5MW
Bio-Mass		10MW

5. IMPORTANT TRANSMISSION LINES COMMISSIONED DURING YEAR 2010-11:-

Sr. No.	Particulars	Date of commissioning
1	220KV Viramgam –Bhat Line 1 & 2	29.05.10
2	220KV Kasor - Vartej LILO at Botad	10.06.10
3	220KV Salejada –Bhat Line 1 & 2	19.06.10
4	220kv Kansari Tharad line-1 lilo at Agathala	01.10.10
5	220KV Tapar – Varsana Line-3 & 4	23.10.10
6	400KV Hadala – Varsana line	02.11.10
7	220Kv GSEG –KIM line-1 lilo at Mora(L&T)	20.11.10
8	66kv Lanko –Solar line no.1	29.11.10
9	220kv Wanakbori – Ranasan line is Lilo at 220Kv Kapadvanj S/s Dt.18.12.10	18.12.10
10	66kv Lanko –Solar line no.2	27.12.10
11	400KV APL – Varsana line	13.01.11
12	400KV APL– Hadala line	13.01.11
13	400/132KV, 315MVA ICT-1 Pirana(T)	26.02.11
14	400/132KV, 315MVA ICT-2 Pirana(T)	26.02.11
15	400KV Sugan – Pirana(T) line-1	26.02.11
16	400KV Sugan – Pirana(T) line-2	26.02.11
17	400KV Dehgam– Pirana(PG) line-1	28.02.11
18	400KV Dehgam– Pirana(PG) line-2	28.02.11
19	400/220V, 315MVA ICT-1 Pirana(PG)	28.02.11
20	220Kv Pirana(T) –Pirana(PG) line-1	18.03.11
21	220Kv Pirana(T) –Pirana(PG) line-2	18.03.11
22	220Kv Kosamba BUS-A	29.03.11
23	220Kv Kosamba BUS-B	29.03.11
24	220kv Zagadiya – Kim Line-2 lilo at Kosamba. Hence the new lines are : 220kv Kim-Kosamba line & 220kv Zagadiya – Kosamba	29.03.11
25	220Kv Utran –Kosamba line-1	30.03.11
26	220/66Kv Transformer-1 at Kangasiyali near Rajkot back charged.	31.03.11
27	220kv Bus at Kangasiyali	31.03.11

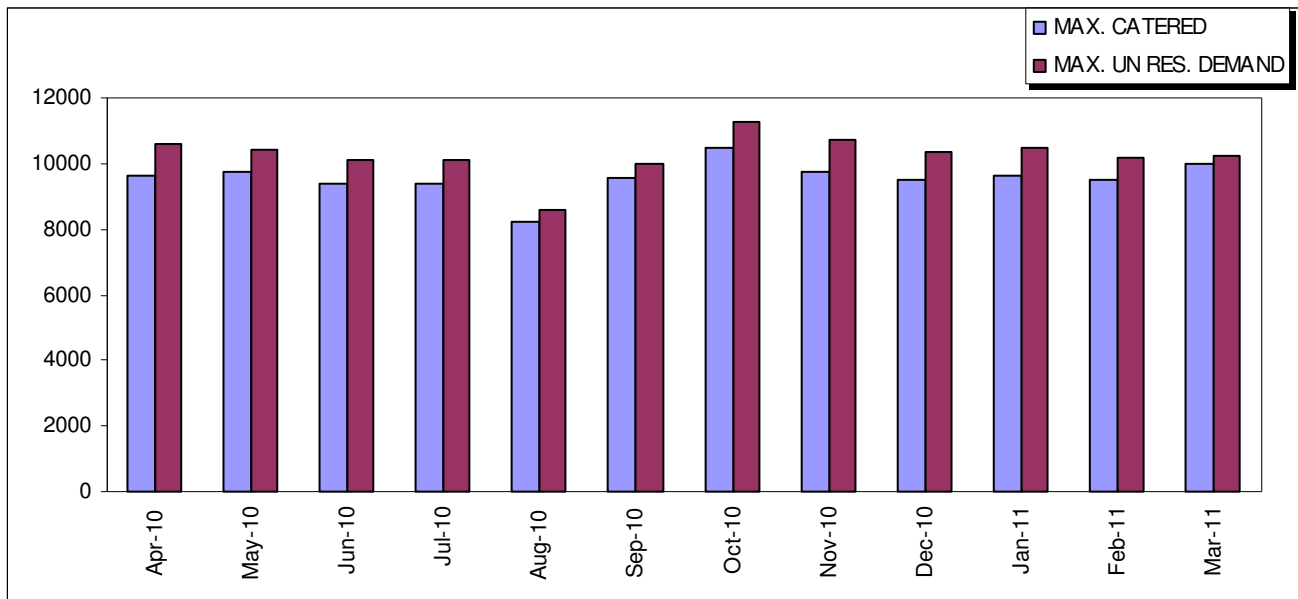
6. ACTUAL GENERATION AND C/S DRAWL FOR YEAR 2010-11

STATION	ENERGY-MUS
GSECL	27762
PRIVATE	32965
CENTRAL SECTOR	7709
WIND	2815
SOLAR	3
BIO-MASS	3
TOTAL	71256



7. DEMAND PARTICULARS FOR THE YEAR 2010-11

MONTH	CATERED(MW)	MAX. UN RES. DEMAND(MW)	DEFICIT(MW)
Apr-10	9632	10613	-981
May-10	9725	10416	-691
Jun-10	9395	10130	-735
Jul-10	9360	10090	-730
Aug-10	8220	8585	-365
Sep-10	9563	9994	-431
Oct-10	10461	11296	-835
Nov-10	9751	10726	-975
Dec-10	9518	10367	-849
Jan-11	9620	10504	-884
Feb-11	9525	10165	-640
Mar-11	10004	10237	-233



**8. ENERGY GENERATED OF THE GENERATING STATIONS / UNITWISE
FOR YEAR 2010-11**

THERMAL	UNIT	Installed capacity	Derated capacity	Generation
		(MW)	(MW)	(Mus)
GANDHINAGAR	GTPS 1	120	120	497
	GTPS 2	120	120	592
	GTPS 3	210	210	1321
	GTPS 4	210	210	1381
	GTPS 5	210	210	1603
WANAKBORI	WTPS 1	210	210	1314
	WTPS 2	210	210	1460
	WTPS 3	210	210	1468
	WTPS 4	210	210	1341
	WTPS 5	210	210	1434
	WTPS 6	210	210	1460
	WTPS 7	210	210	1525
UKAI(TH)	UTPS 1	120	120	694
	UTPS 2	120	120	670
	UTPS 3	200	200	1348
	UTPS 4	200	200	1091
	UTPS 5	210	210	1577
SIKKA	STPS 1	120	120	532
	STPS 2	120	120	643
PANENDHRO	KLTPS 1	70	70	417
	KLTPS 2	70	70	460
	KLTPS 3	75	75	366
	KLTPS 4	75	75	133
TORRENT POWER	AECO C	60	60	332
	AECO D	120	120	912
	AECO E	110	110	856
	AECO F	110	110	845
SURAT LIGNITE	SLPP 1	125	125	870
	SLPP 2	125	125	873
	SLPP 3	125	125	497
	SLPP 4	125	125	394
AKRIMOTA	ALPP 1	125	125	609
	ALPP 2	125	125	563
APL	APL-1	330	250	2455
	APL-2	330	250	2500
	APL-3	330	250	1585
	APL-4	330	250	718
	APL-5	660	500	541
TOTAL THERMAL		6850	6370.00	37876

GAS	UNIT	Installed capacity	Derated capacity	Generation
		(MW)	(MW)	(Mus)
DHUVARAN GAS	DTPS - GT1	68	68	171
	DTPS - STG1	39	39	93
	DTPS-GT2	72	72	408
	DTPS-STG2	40	40	220
UTRAN	UGPP GT1	33	30	160
	UGPP GT2	33	30	146
	UGPP GT3	33	30	136
	UGPP ST1	46	45	255
	UGPP GT-4	229	228.57	1354
	UGPP ST2	146	146	898
GIPCL-I	GIPCL GT1	32	32	212
	GIPCL GT2	32	32	223
	GIPCL GT3	32	32	230
	GIPCL ST1	49	49	353
GIPCL-II	GIPCL GT4	111	111	549
	GIPCL ST2	54	54	295
TORRENT POWER GAS	AECO GT1	32.5	32.5	230
	AECO GT2	32.5	32.5	214
	AECO STG	35	35	226
*ESSAR POWER	ESSAR GT1	110	110	542
	ESSAR GT2	110	110	641
	ESSAR GT3	110	110	568
	ESSAR SGT	185	185	1002
GPEC	GPEC GT1	138	138	608
	GPEC GT2	138	138	842
	GPEC GT3	138	138	821
	GPEC STG	241	241	1397
GSEG	GSEG 1	52	52	320
	GSEG 2	52	52	322
	GSEG ST	52	52	380
SUGEN	SUGEN GT1	383	382.5	2769
	SUGEN GT2	383	382.5	2815
	SUGEN GT3	383	382.5	2633
TOTAL GAS		3623	3397.07	22029

*Installed capacity is 515MW but GUVNL Share is 300MW considered

HYDRO	UNIT	Installed capacity (MW)	Derated capacity (MW)	Generation (Mus)
UKAI(HY)	UHPS 1	75	75	162
	UHPS 2	75	75	103
	UHPS 3	75	75	82
	UHPS 4	75	75	110
UKAI LBCH	ULBC 1	2.5	2.5	7
	ULBC 2	2.5	2.5	11
KADANA	KHPS 1	60	60	12
	KHPS 2	60	60	54
	KHPS 3	60	60	18
	KHPS 4	60	60	34
PANAM	PANAM	2	2	3
MADHUBAN DAM	MADHUBAN DAM-1	1.5	1.5	8
	MADHUBAN DAM-2	1.5	1.5	8
PVT HY.	Karjan Dam	3	3	1.03
TOTAL HYDRO		553	553	613

	Installed capacity(MW)	Generation (Mus)
THERMAL	6370.00	37876
GAS	3397.07	22029
HYDRO	553.00	613
CPP	-	208
WIND FARM	2094.31	2815
SOLAR	5.00	3
BOIMASS	10.00	3
C/S ACTUAL	2820.00	7709
GRAND TOTAL	15249.38	71256

9. IMPORTANT 400KV S/S VOLTAGE(kV) PROFILE:

MONTH	ASOJ		KASOR		CHORANIA		JETPUR	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
Apr-10	423	407	424	405	413	390	416	388
May-10	426	409	426	405	416	389	421	395
Jun-10	426	406	429	406	423	392	426	394
Jul-10	428	408	429	406	425	394	426	395
Aug-10	428	411	430	413	423	398	425	393
Sep-10	427	405	429	405	423	385	426	376
Oct-10	427	404	432	405	414	381	416	359
Nov-10	429	404	429	409	422	389	427	375
Dec-10	427	406	430	408	419	387	422	377
Jan-11	428	404	433	404	421	389	422	388
Feb-11	426	408	432	413	425	402	427	401
Mar-11	427	413	431	414	422	405	425	397

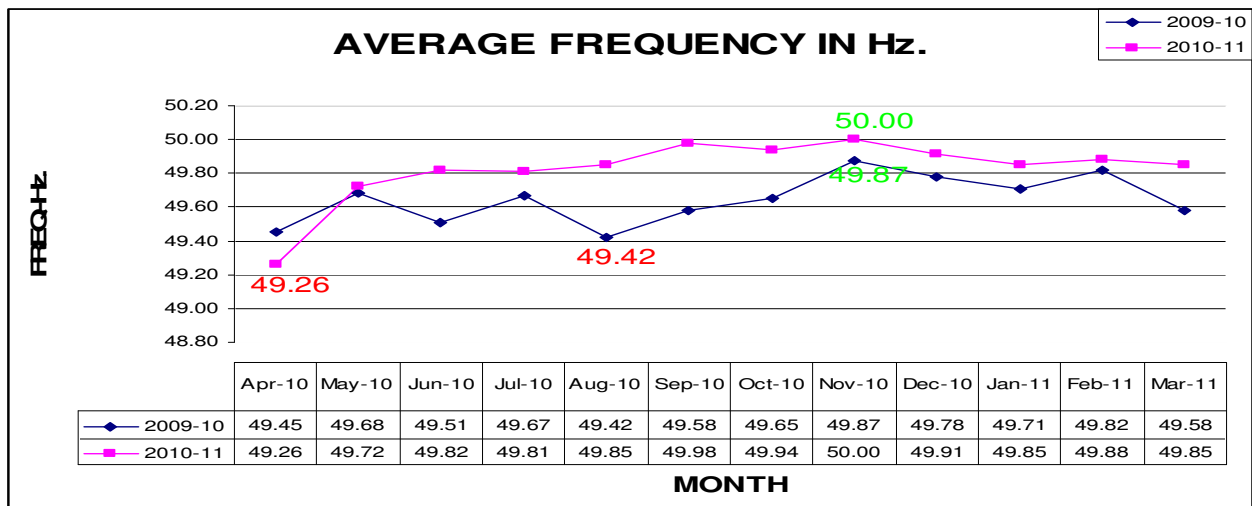
MONTH	AMRELI		SOJA		KANSARI		VADAVI		HADALA	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
Apr-10	412	384	415	400	416	390	422	399	417	387
May-10	414	388	418	399	414	386	425	405	418	392
Jun-10	421	389	421	397	425	383	431	405	427	392
Jul-10	422	396	436	399	428	391	434	403	427	397
Aug-10	422	394	436	415	423	392	430	404	427	400
Sep-10	422	371	435	411	426	394	431	402	424	380
Oct-10	410	355	432	411	423	389	430	407	416	368
Nov-10	420	372	437	411	428	391	432	399	426	383
Dec-10	419	376	433	409	422	385	428	406	420	385
Jan-11	415	383	432	411	421	383	427	404	428	390
Feb-11	418	396	421	402	421	388	425	405	428	410
Mar-11	416	395	423	408	420	397	429	412	429	402

10. FREQUENCY PARTICULARS:-

Frequency %				
MONTH	2009-10		2010-11	
	ABOVE 49.20Hz.	BELOW 49.20Hz.	ABOVE 49.20Hz.	BELOW 49.20 Hz.
APR	81.26	18.74	59.47	40.53
MAY	93.56	6.45	97.87	2.13
JUN	80.8	19.19	99.46	0.54
JUL	95.31	4.69	97.53	2.47
AUG	74.11	25.88	98.32	1.68
SEP	83.82	16.17	99.63	0.37
OCT	94.98	5.02	99.98	0.02
NOV	99.61	0.38	99.98	0.02
DEC	99.51	0.49	99.92	0.08
JAN	96.35	3.64	99.66	0.34
FEB	99.64	0.35	99.83	0.17
MAR	90.32	9.68	99.85	0.15

MONTHLY AVERAGE FREQUENCY IN Hz.:-

MONTH	2009-10	2010-11
APR	49.45	49.26
MAY	49.68	49.72
JUN	49.51	49.82
JUL	49.67	49.81
AUG	49.42	49.85
SEP	49.58	49.98
OCT	49.65	49.94
NOV	49.87	50.00
DEC	49.78	49.91
JAN	49.71	49.85
FEB	49.82	49.88
MAR	49.58	49.85

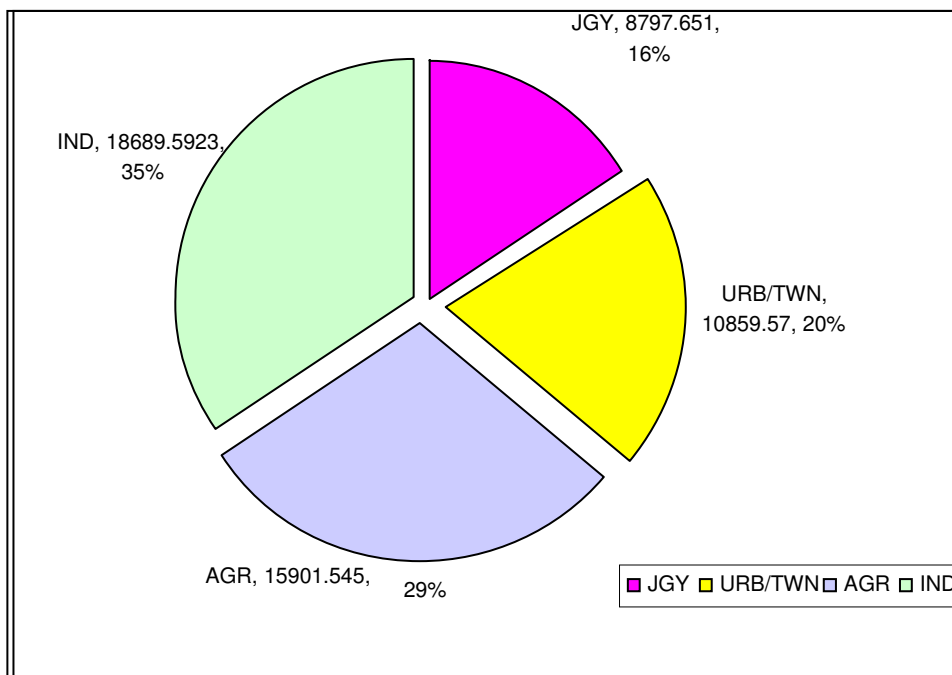


11. DISCOMWISE ENERGY CATERED FOR GUVNL IN MUs FOR YEAR 2010-11

MONTH		JGY	URB/TWN	AGR	IND	TOTAL
Apr-10 to Mar-11	PGVCL	3445	4437	6772	4730	19384
	UGVCL	1971	1332	7576	4006	14885
	MGVCL	1457	2834	985	3286	8563
	DGVCL	1924	2256	569	6668	11417
	TOTAL	8798	10860	15902	18690	54248

MONTH	JGY	URB/TWN	AGR	IND	TOTAL
Apr-10	763	943	1640	1566	4912
May-10	799	1014	1572	1610	4995
Jun-10	730	957	1175	1530	4393
Jul-10	745	962	518	1549	3774
Aug-10	764	954	365	1543	3625
Sep-10	760	920	600	1456	3735
Oct-10	831	1025	1799	1665	5320
Nov-10	695	801	1139	1433	4068
Dec-10	648	801	1665	1599	4715
Jan-11	642	779	1897	1594	4913
Feb-11	631	770	1704	1474	4578
Mar-11	789	932	1829	1670	5220
TOTAL	8798	10860	15902	18690	54248

CATEGORYWISE ENERGY BIFURCATION FOR YEAR 2010-11



12. WIND ENERGY:-

1. WIND ENERGY GENERATION IN MUS:-

MONTH	2009-10	2010-11
APR	200	257
MAY	338	442
JUN	332	369
JUL	355	319
AUG	356	219
SEP	150	112
OCT	120	122
NOV	146	166
DEC	188	179
JAN	179	236
FEB	157	171
MAR	208	222
TOTAL	2729	2815

2. MAX & MIN WIND ENERGY IN MW:-

MOTH	2009-10		2010-11	
	MAX	MAX	MAX	MIN
APR	636	21	1045	5
MAY	1022	4	1350	17
JUN	1005	2	1215	3
JUL	1113	5	1320	0
AUG	1183	12	1088	10
SEP	592	0	816	2
OCT	682	0	658	0
NOV	826	0	985	1
DEC	840	2	927	1
JAN	831	1	1126	0
FEB	1092	1	1126	0
MAR	1062	1	1040	3

13. DETAILS OF RTU COMMISSIONED DURING 2010-11

- 1) Kosamba
- 2) 400kV Adani Power Ltd.
- 3) Essar oil
- 4) Reliance
- 5) AECo-Pirana
- 6) Botad

14. Number of ABT Meters Installed as on March – 2011

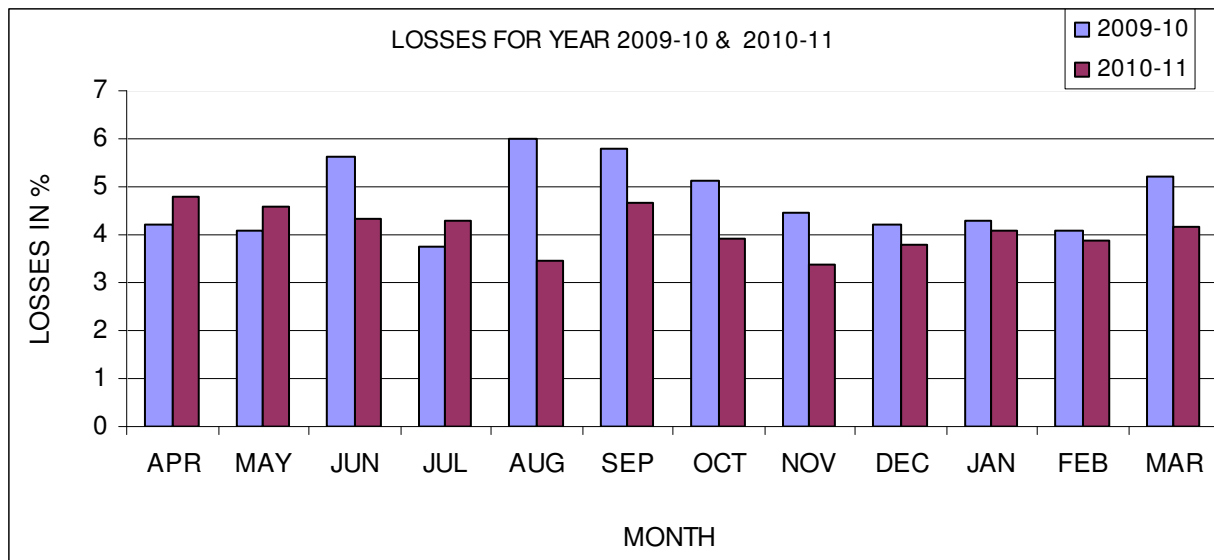
Sr No	NAME OF ENTITIES	NOS OF ABT METER INSTALLED	L & T MAKE	SEMS MAKE
1	GSECL	267	95	172
2	UGVCL	74	0	74
3	MGVCL	76	3	73
4	DGVCL	89	0	89
5	PGVCL	134	119	15
6	CPP	46	5	41
7	MPP	62	62	0
8	IPP	75	8	67
9	MINI HYDEL	3	0	3
10	WF	60	58	2
11	SOLAR	2	0	2
12	BIOMASS	1	1	0
13	SECO	19	6	13
14	AECO	13	0	13
15	KPT	2	2	0
16	TEL-SEZ	1	1	0
17	RIL-SEZ	1	1	0
18	MUNDRA-SEZ	5	5	0
	TOTAL	930	366	564

15. DETAILS OF OPEN ACCESS APPLICATIONS:-

STOA approval	Application Received	Application Approved	Application Rejected
Apr-10	43	43	0
May-10	43	39	4
Jun-10	62	60	2
Jul-10	51	51	0
Aug-10	40	36	4
Sep-10	46	44	2
Oct-10	35	34	1
Nov-10	26	26	0
Dec-10	39	35	4
Jan-11	59	56	3
Feb-11	69	67	3
Mar-11	86	86	0
TOTAL	599	577	23

16. DETAILS OF TRANSMISSION LOSSES IN %

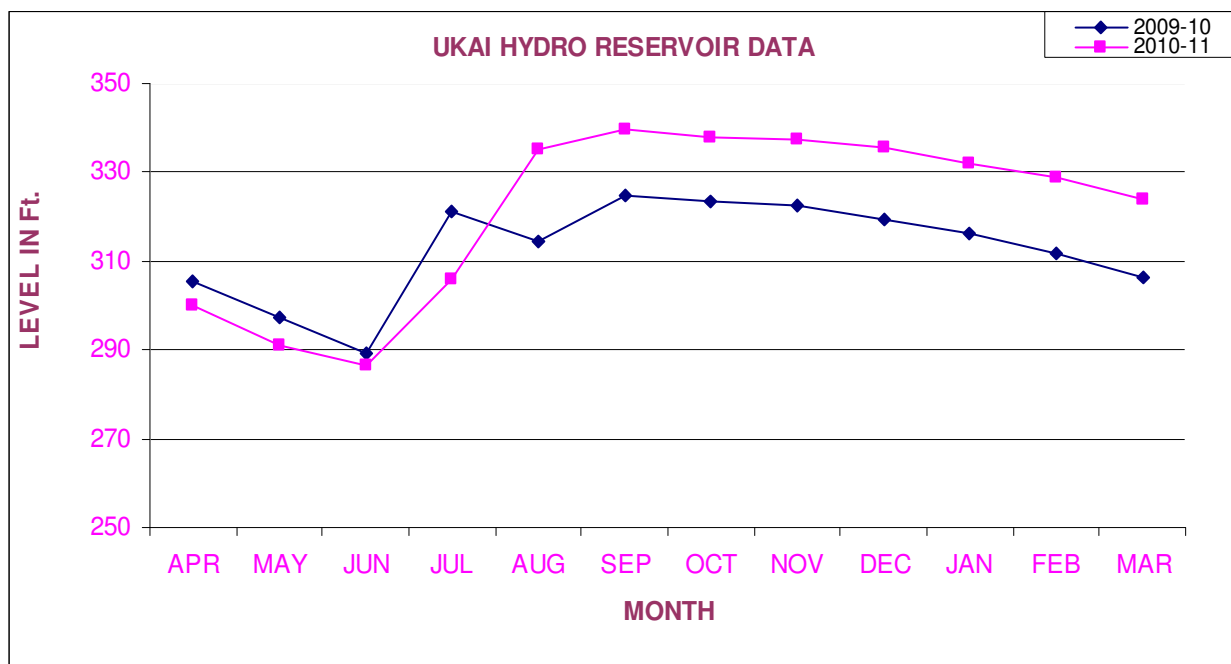
MONTH	2009-10	2010-11
APR	4.22	4.81
MAY	4.07	4.57
JUN	5.61	4.32
JUL	3.75	4.30
AUG	6.02	3.47
SEP	5.80	4.65
OCT	5.11	3.90
NOV	4.44	3.38
DEC	4.21	3.78
JAN	4.29	4.07
FEB	4.08	3.88
MAR	5.22	4.15
AVERAGE	4.77	4.12



17. HYDRO RESERVOIR DATA:-

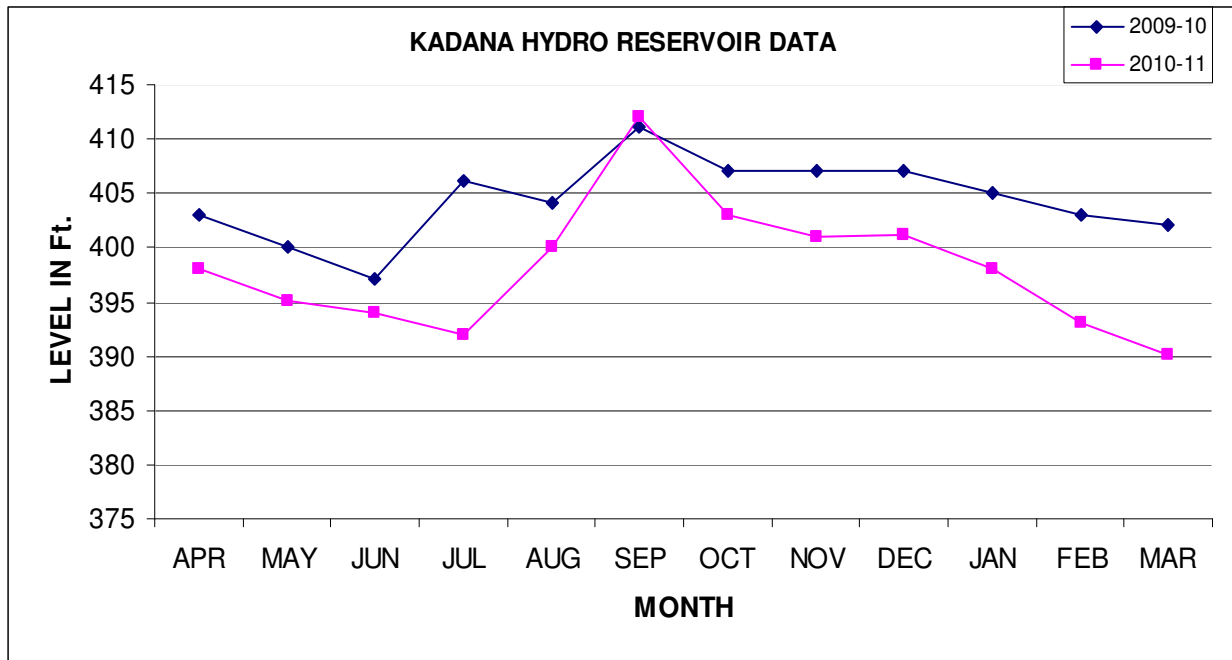
1. UKAI DAM LEVEL IN ft.ON LAST DAY OF THE MONTH

MONTH	2009-10	2010-11
APR	305.33	300.13
MAY	297.27	290.89
JUN	288.97	286.31
JUL	321.11	305.91
AUG	314.44	334.91
SEP	324.55	339.84
OCT	323.34	337.96
NOV	322.35	337.45
DEC	319.16	335.56
JAN	316.36	331.88
FEB	311.77	328.76
MAR	306.27	323.69



2. KADANA DAM LEVEL IN Ft. ON LAST DAY OF THE MONTH

MONTH	2009-10	2010-11
APR	403.00	398.00
MAY	400.09	395.10
JUN	397.03	394.06
JUL	406.06	392.05
AUG	404.09	400.06
SEP	411.04	412.01
OCT	407.03	403.07
NOV	407.03	401.01
DEC	407.02	401.11
JAN	405.05	398.10
FEB	403.10	393.02
MAR	402.05	390.04



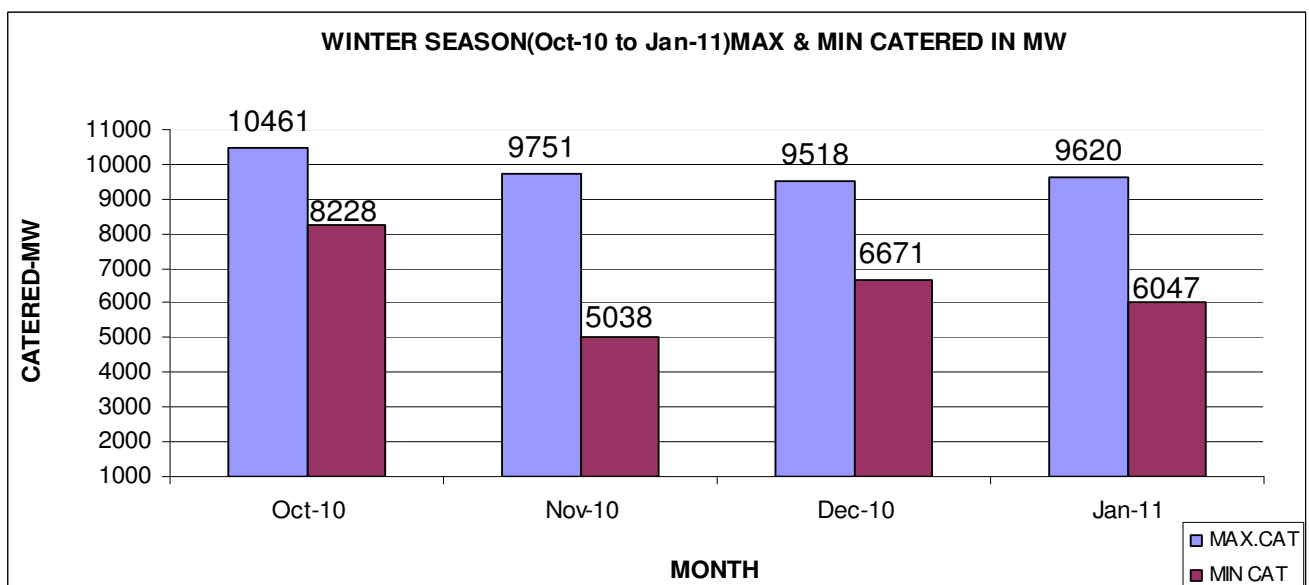
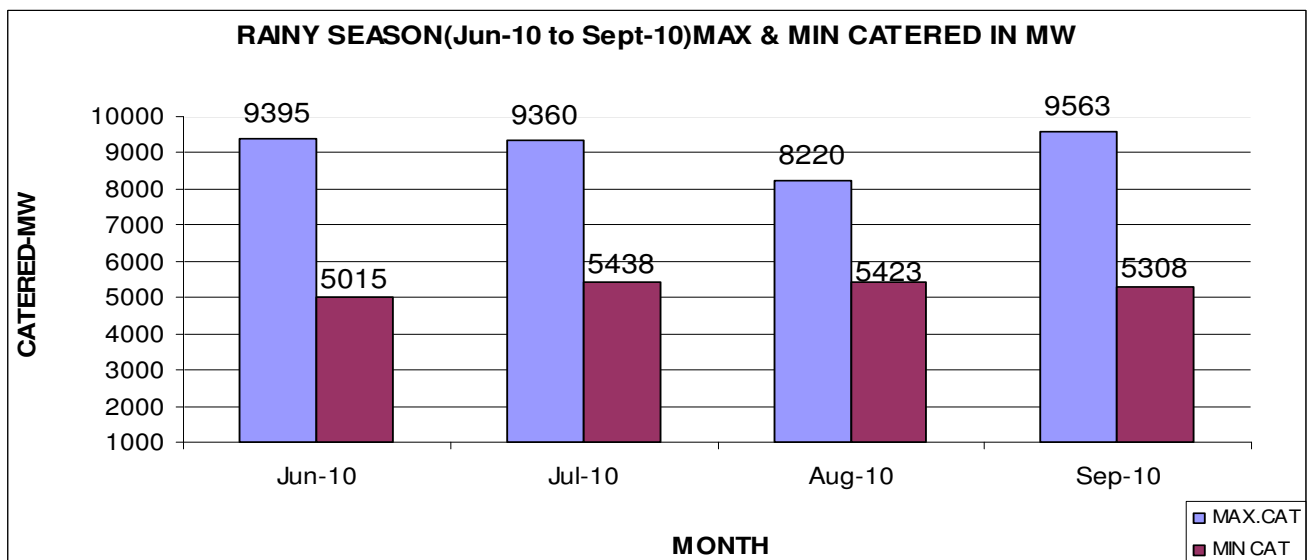
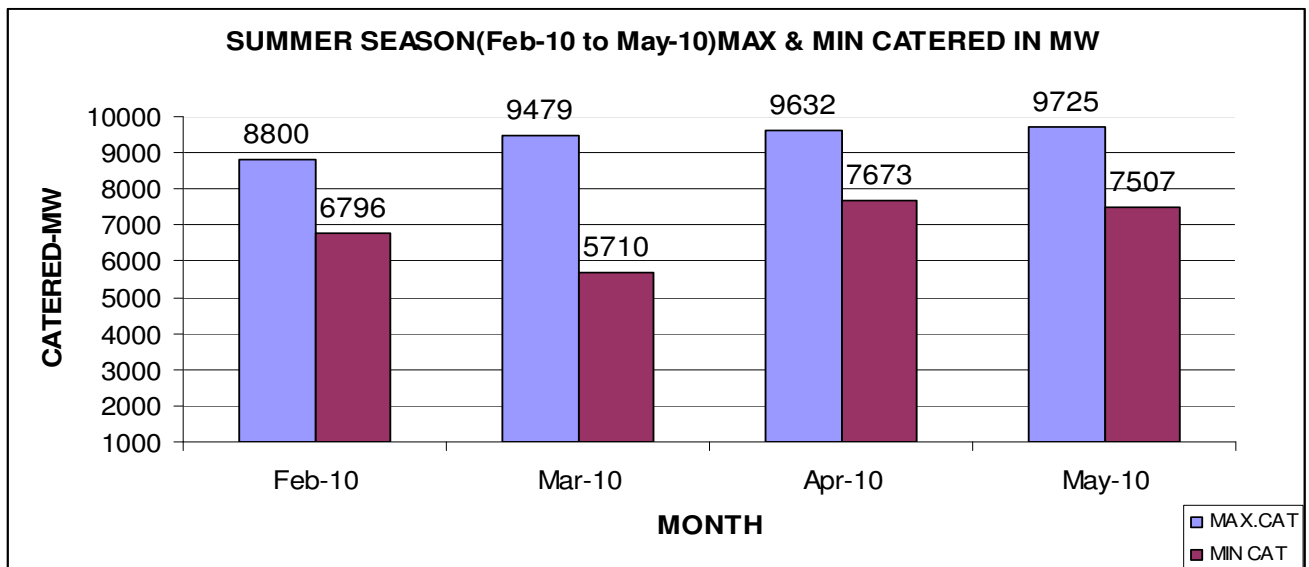
18. HYDRO GENERATION DATA FOR YEAR 2010-11 IN MUs:

MONTH	UKAI	KADANA	PVT.HYDRO
APR	31	7	-
MAY	35	2	-
JUN	19	1	-
JUL	0	9	-
AUG	43	11	1.617
SEP	128	9	2.283
OCT	40	32	2.390
NOV	23	0	2.387
DEC	28	13	2.034
JAN	38	16	2.106
FEB	34	16	1.913
MAR	55	6	2.117

19. AGRICULTURE POWER SUPPLY HOUR:

MONTH	2009-10	2010-11
APR	7:56	7:55
MAY	7:57	8:04
JUN	8:00	8:00
JUL	12:42	8:11
AUG	13:19	8:01
SEP	11:28	8:00
OCT	8:14	8:00
NOV	8:01	8:00
DEC	8:02	8:02
JAN	8:00	8:01
FEB	8:00	8:00
MAR	8:00	8:07
AVERAGE	9:08	8:02

20. SEASONAL LOAD CURVE:



Annual Account for the year 2010-11

SR. NO.	DESCRIPTION	AMOUNT
A	Fixed Asset	68891766.75
B	INCOME	
1	Scheduling Charges.	13447807.00
2	Application Charges.	2250936.00
3	Income from SLDC FEES.	19914162.00
4	Income from SLDC Charges.	166286713.00
5	Other Income.	1051119.95
TOTAL		202950737.95
C	EXPENDITURE	
1	Repairs & maintenance Charges.	85716807.37
2	Employee Cost.	70372912.24
3	Administrative & Gen Expenditure.	14115188.20
4	Dep & Other related cost.	3657523.16
TOTAL		173862430.97