



पश्चिम क्षेत्रीय भार प्रेषण केंद्र की
मार्च 2011 माह की प्रणाली प्रचालन रिपोर्ट

System Operation Report Of Western Region For the month of March 2011

पावर सिस्टम ऑपरेशन कारपोरेशन लिमिटेड

(पावरग्रिड की एक पूर्ण स्वामित्व वाली कंपनी)

पश्चिम क्षेत्रीय भार प्रेषण केंद्र, मुंबई

Power System Operation Corporation Ltd.

(A wholly owned subsidiary company of POWERGRID)

Western Regional Load Despatch Centre, Mumbai

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**SYSTEM OPERATION REPORT OF WESTERN REGION
FOR THE MONTH OF MARCH 2011**

A)SUMMARY REPORT

I)IMPORTANT EVENTS

a)COMMISSIONING OF NEW GENERATING UNITS

SL.NO.	CONSTITUENT	UNIT NAME	UNIT NO	Capacity(MW)	DATE
1	NTPC	Kstps-7	7	500	COD on 29/03/11

b)COMMISSIONING OF NEW TRANSMISSION LINES

SL.NO.	CONSTITUENT	LINE NAME	CKT NO	KV	DATE
1	POWERGRID	*Pirana(T)-Pirana(PG)	LILLO	400	18/03/11
2	POWERGRID	Bhadrawati-Parli	D/C	400	31/03/11

*charged at pirana end . PGCIL end charged on 27/02/2011

c)COMMISSIONING OF NEW SUBSTATIONS

NIL

d)COMMISSIONING OF NEW ICT / BUS /LINE REACTORS

SL.NO.	CONSTITUENT	STATION NAME	KV RATIO	CAPACITY	DATE
1	APL	Mundra(B/R)	420	81 MVAR	11/3/2011
2	POWERGRID	Pirana ICT	400/220	315 MVA	29/03/2011
3	POWERGRID	Bhadrawati(L/R)	420	63 MVAR	31/03/2011
4	POWERGRID	Parli(L/R)	420	63 MVAR	31/03/2011
5	POWERGRID	Parli(B/R)	420	63 MVAR	31/03/2011
6	POWERGRID	Solapur ICT	400/220	315 MVA	31/03/2011
7	POWERGRID	Gwalior ICT - III	400/220	315 MVA	31/03/2011

Percentage of FSC # 3 at Raipur -- 40%of each (Raipur-Raigarh # 3)

e) Major problem/constraints affecting Grid operation including major Grid disturbances

NIL

i) Grid Separations NIL

ii) Grid Disturbances NIL

माह मार्च 2011 में पश्चिम क्षेत्र का निष्पादन डाटा
Performance of Western Regional Grid during March -2011
Schedule and Drawal Of Constituents from Central sector

Sl. No.	State/U.T/ System	Schedule (Mus)	Actual Drawal (MUs)	Total Over (+)/Under (-)drawal (MUs)	Overdrawal at Freq. <49.5Hz (MUs)	Underdrawal at Freq. >50.2Hz (MUs)
1	गुजरात Gujarat	667.84	610.68	-57.16	3.058	0.453
2	मध्य प्रदेश Madhya Pradesh	1795.58	1773.38	-22.2	0.788	0.34
3	महाराष्ट्र Maharashtra	2393.41	2498.03	104.62	0.955	1.073
4	छत्तिसगढ़ Chhattisgarh	-255.24	-236.77	18.47	0.736	0.758
5	गोवा Goa	216.23	207.49	-8.74	0.167	0.171
6	दमन और दीव D&D	189.13	163.22	-25.91	0.059	0.323
7	दादर नगर हवेली	379.56	342	-37.56	0.084	0.68
8	कुल TOTAL	5386.51	5358.03	-28.48	5.847	3.798

आवृत्ति रूपरेखा
III a. Frequency Profile

MAXIMUM FREQUENCY(Inst.): आधिकतम आवृत्ता एकिकृत	:	50.64 HZ
Minimum frequency(Inst) न्यूनतम आवृत्ती एकिकृत	:	49.00 HZ
Average frequency औसत आवृत्ती	:	49.86 HZ

b. आवृत्ती वितरण प्रतिशत में Frequency distribution in %

HZ	<48.8	48.8 - 49.2	49.2 -49.5	49.5-50.2	50.2-51.0	>51.0
%	0	0.12	3.41	94.14	2.33	0.00

IV Power Supply Position and Peak Demand / Met In Western Region

a. विद्युत पूर्ति की स्थिति Power Supply Position

	March-11			APR -10 TO MARCH-11		
	Requirement (MUs)	Availability (MUs)	Shortage (%)	Requirement (MUs)	Availability (MUs)	Shortage (%)
Gujarat	6761	6637	1.83	75270	70955	5.73
MPSEB	4694	3689	21.41	48867	39207	19.77
CSEB	2002	1979	1.15	20471	20299	0.84
Maharashtra	12713	10864	14.54	131080	112801	13.95
Goa	237	236	0.42	2587	2491	3.74
D&D	180	161	10.56	2003	1800	10.12
DNH	352	349	0.88	1946	1865	4.18
Western Region	26943	23917	11.23	283472	250696	11.56

b. Peak Demand / Demand Met(MW)

	MARCH-11			APR -10 to MARCH -11		
	Requirement (MW)	Availability (MW)	Shortage (%)	Requirement (MW)	Availability (MW)	Shortage (%)
Gujarat	9996	9736	2.60	11296	10344	8.43
MPSEB	8442	7552	10.54	8928	7864	11.92
CSEB	3078	2985	3.02	3078	2985	3.02
Maharashtra	20241	15800	21.94	20308	15945	21.48
Goa	401	383	4.49	544	453	16.73
D&D	272	236	13.24	291	252	13.40
DNH	515	493	4.27	541	526	2.77
Western **Region	42391	36418	14.09	42161	36418	13.62

**Regional demand met is the simultaneous demand met and not the sum of demand met by constituent .

PEAK DEMAND FOR MARCH.2011

State	Catered	UNSCHLS +SCHLS	FC	PC	Total	Date	Time	Freq.
दिव दमण DD								
पंजीकृत Registered	252	-	-	-	252	23.03.11	12:00	49.67
दादरा नगर हवेली DNH								
पंजीकृत Registered	513	-	-	-	513	24.03.11	11:00	49.77
गोवा GOA								
पंजीकृत Registered	382	-	-	-	382	22.03.11	20:00	49.83
गुजरात GUJARAT								
पंजीकृत Registered	10004	-	-	-	10004	17.03.11	23:00	49.66
असीमित Unrestricted	10004	117	119	0.00	10240	17.03.11	23:00	49.66
छत्तीसगढ रा.वि.बोर्ड Chhattisgarh								
पंजीकृत Registered	2979	-	-	-	2979	31.03.11	19:00	49.91
असीमित Unrestricted	2934	348	7	0	3289	29.03.11	19:00	49.93
मध्य प्रदेश रा.वि.बोर्ड Madhy Pradesh								
पंजीकृत Registered	8318	-	-	-	8318	06.03.11	21:00	49.87
असीमित Unrestricted	8101	448	74	0	8623	04.03.11	21:00	49.74
महाराष्ट्र रा.वि.बोर्ड-MAHA-RASHTRA								
पंजीकृत Registered	16777	-	-	-	16777	30.03.11	16:00	49.83
असीमित Unrestricted	15792	4322	77	0	20191	29.03.11	20:00	49.86
पश्चिम क्षेत्र WESTERN REGION								
पंजीकृत Registered	36418	-	-	-	36418	09.03.11	21:00	49.75
असीमित Unrestricted	35980	6128	290	0	42397	09.03.11	20:00	49.77

II	
माह मार्च 2011 में अंतर क्षेत्र से पश्चिम क्षेत्र को विद्युत विनिमय	
Inter-Regional Exchange of Power in Western Region during MARCH -11	
DESCRIPTION	Import (Mus)
Indian Energy Exchange (ER to WR)	103.95
Power Exchange of India (ER to WR)	53.15
ER (NTPC) to GUVNL	54.66
ER (NTPC) to MP PTCL	35.22
ER (NTPC) to CSEB	14.29
ER (NTPC) to MSEDCL	70.30
ER (NTPC) to GOA	0.00
ER (NTPC) to D D	0.93
ER (NTPC) to D N H	1.43
DVC to MPPTCL (Long Term Open Access)	64.52
Hirakud to CSEB	1.19
WBSEB to VARDHMAN MPSEB (TPTCL)	0.23
Indian Energy Exchange (NR to WR)	299.37
Rihand (Hydro) to MPPTCL (Long Term Open Access)	2.21
Matathilla (Hydro) to MPPTCL (Long Term Open Access)	1.04
JK to CSEB (NVVNL)	16.23
BSES YM (DTL) to GOA (NVVNL)	22.07
HIMACHAL to MPSEB (IEXL)	0.99
NDPL(DTL) to MPSEB (IEXL)	0.15
UPPCL to MPSEB (MPPL)	4.74
PSEB to MSEB (MSEB)	58.63
GUVNL to NPCL (NPCL)	29.32
GFL to TPC MSEB (TPTCL)	2.37
DESCRIPTION	Export(Mus)
CSPL CSEB to AP-NER (TPTCL)	0.11
AFAL CSEB to ASEB (TPTCL)	2.72
GPIL CSEB to ASEB (TPTCL)	4.76
HFAL CSEB to ASEB (TPTCL)	2.72
JPAL CSEB to ASEB (TPTCL)	9.93
MIEL CSEB to ASEB (NVVNL)	14.28
MECBL CSEB to ASEB (TPTCL)	0.33
REALISPAT CSEB to ASEB (TPTCL)	0.10
RRREL CSEB to ASEB (TPTCL)	5.92
SNIL CSEB to ASEB (TPTCL)	6.58
SSPL CSEB to ASEB (TPTCL)	0.12
WARDHA MSEB to CESC (NETS)	17.66
GUVNL to TNEB (TNEB)	5.34
APL GUVNL to WBSEB (TPTCL)	137.33
REALISPAT CSEB to WBSEB (NVVNL)	4.14
SEML CSEB to WBSEB (NVVNL)	8.12
SSPL CSEB to WBSEB (NVVNL)	4.77
APL GUVNL to JVVNL (IEXL)	16.16
BALCO CSEB to JVVNL (IEXL)	7.42
PCBL GUVNL to NPCL (NPCL)	6.22
BALCO CSEB to RPPC (NVVNL)	15.46
APL GUVNL to UPPCL (AEL)	165.63
CSPL CSEB to UPPCL (KISPL)	9.60
GUVNL to UPPCL (AEL)	31.27
JPL to UPPCL (UPPCL)	18.74
MIEL CSEB to UPPCL (KISPL)	12.53
MIELMH CSEB to UPPCL (KISPL)	11.52
RSIPIL CSEB to UPPCL (KISPL)	2.19
SCPL CSEB to UPPCL (KISPL)	1.61
VIL GUVNL to UPPCL (KISPL)	4.43
WARDHA MSEB to UPPCL (KISPL)	38.08
JPL to APPCC (NVVNL)	125.86
JPL to APPCC (PTC LTD)	31.37
WARDHA MSEB to APPCC (LANCO)	71.55
CSEB to BESCO (PTC LTD)	189.09
JPL to BESCO (PTC LTD)	63.23
CSEB to TNEB (PTC LTD)	5.13
NET EXPORT TO ER	342.00
NET EXPORT TO NR	617.00
NET EXPORT TO SR	734.00

दिनांक 31 | 03 | 2011 को राज्यानुसार संस्थापित क्षमता
INSTALLED GENERATION CAPACITY OF THE STATES INCLUDING SHARES AS ON 31.03.2011

(All fig. in MW)									
State	Ownership	Hydro	Coal	Gas	Nuclear	Total	Diesel	RES	Total
Gujarat	State	772.00	4220.00	892.72	0.00	5884.72	17.28	29.90	5931.90
	Private	0.00	2630.00	2577.50	0.00	5207.50	0.20	1970.57	7178.27
	Central(firm allo)	0.00	1628.89	424.27	559.32	2612.48	0.00	0.00	2612.48
	Total	772.00	8478.89	3894.49	559.32	13704.70	17.48	2000.47	15722.65
Madhya Pradesh	State	1703.66	2807.50	0.00	0.00	4511.16	0.00	26.76	4537.92
	Private	0.00	0.00	0.00	0.00	0.00	0.00	240.40	240.40
	Central(firm allo)	1520.00	1552.60	257.18	273.24	3603.02	0.00	0.00	3603.02
	Total	3223.66	4360.10	257.18	273.24	8114.18	0.00	267.16	8381.34
Chhattisgarh	State	120.00	2060.00	0.00	0.00	2180.00	0.00	19.05	2199.05
	Private	0.00	1600.00	0.00	0.00	1600.00	0.00	231.90	1831.90
	Central(firm allo)	0.00	804.00	0.00	47.52	851.52	0.00	0.00	851.52
	Total	120.00	4464.00	0.00	47.52	4631.52	0.00	250.95	4882.47
Maharashtra	State	2884.84	7295.00	672.00	0.00	10851.84	0.00	269.23	11121.07
	Private	447.00	2905.00	180.00	0.00	3532.00	0.00	2540.10	6072.10
	Central(firm allo)	0.00	2138.05	2623.93	690.14	5452.12	0.00	0.00	5452.12
	Total	3331.84	12338.05	3475.93	690.14	19835.96	0.00	2809.33	22645.29
Goa	State	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.05
	Private	0.00	0.00	48.00	0.00	48.00	0.00	30.00	78.00
	Central(firm allo)	0.00	283.03	0.00	25.80	308.83	0.00	0.00	308.83
	Total	0.00	283.03	48.00	25.80	356.83	0.00	30.05	386.88
DD	State	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Private	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Central(firm allo)	0.00	21.04	4.20	7.38	32.62	0.00	0.00	32.62
	Total	0.00	21.04	4.20	7.38	32.62	0.00	0.00	32.62
DNH	State	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Private	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Central(firm allo)	0.00	25.04	27.10	8.46	60.60	0.00	0.00	60.60
	Total	0.00	25.04	27.10	8.46	60.60	0.00	0.00	60.60
WR	State	5480.50	16382.50	1564.72	0.00	23427.72	17.28	344.99	23789.99
	Private	447.00	7135.00	2805.50	0.00	10387.50	0.20	5012.97	15400.67
	Central(firm allo)*	1520.00	6452.65	3336.68	1611.86	12921.19	0.00	0.00	12921.19
	Unallocated	0.00	1025.35	196.91	228.14	1450.40	0.00	0.00	1450.40
	Total	7447.50	30995.50	7903.81	1840.00	48186.81	17.48	5357.96	53562.25

Note - Renewable Energy Sources (RES) includes Small Hydro Project, Biomass Gasifier, Biomass Power, Urban & Industrial Waste Power

i) Includes allocation to WR beneficiaries from kahalgaon STPP II (1000MW) of NTPC station ER commissioned (i.e. achieved full load) on 31.07.09. Firm allocation of WR beneficiaries viz Guj-94, MP-49.32, Chh-20, Mah-98.66, DD-1.32 and DNH-2.00 MW totalling to 265.30 has been included in the installed capacity of WR.

ii) Unit Nos 1,2,3,4 of 60 MW each of Uran Gas power Station of MAHAGENCO have been retired w.e.f. 16.11.10

SILENT FEATURE OF WESTERN REGION GRID FOR THE MONTH OF MARCH -2011

1. स्थापित क्षमता Installed Capacity (MW)	गुजरात Gujarat	मध्य प्रदेश M.P	छत्तिसगढ़ CSEB	महाराष्ट्र Mah.	गोवा Goa	सेंट्रल सेक्टर Central Sector	सेंट्रल सेक्टर Central unlocated	पश्चिम क्षेत्र Western Region
मार्च Mar'10	13861	8424	4760	21319	381	13871	1375	50207
मार्च Mar'11	15723	8381	4882	22645	386	14371	1450	53562
वृद्धि प्रतिशतमें % increase	13.43	-0.51	2.57	6.22	1.30	3.60	5.5	6.68
2. ऊर्जा Energy (Gross)	गुजरात Gujarat	मध्य प्रदेश M.P	छत्तिसगढ़ CSEB	महाराष्ट्र Mah.	गोवा Goa	दिव दमण DD	दादरा नगर हवेली DNH	प क्षेत्र Western Region
असिमित आवश्यकता Unrestricted requirement (MUs)								
मार्च Mar'10	5775	4034	807	10802	247	147	325	22138
मार्च Mar'11	6761	4694	2002	12713	237	180	352	26943
असिमित आवश्यकता Unrestricted Requirement MUs/day								
मार्च Mar'10	186	130	26	348	8	5	10	714
मार्च Mar'11	218	151	65	410	8	6	11	869
ऊर्जा उपलब्धता Energy availability (MUs)								
मार्च Mar'10	5333	3090	800	8627	244	147	324	18566
मार्च Mar'11	6637	3689	1979	10864	236	161	349	23917
ऊर्जा उपलब्धता Energy availability MUs/day								
मार्च Mar'10	172	100	26	278	8	5	10	599
मार्च Mar'11	214	119	64	350	8	5	11	772
3. मांग Demand	गुजरात Gujarat	मध्य प्रदेश M.P	छत्तिसगढ़ CSEB	महाराष्ट्र Mah.	गोवा Goa	दिव दमण DD	दादरा नगर हवेली DNH	प क्षेत्र Western Region
असिमित मांग Unrestricted demand (MW)								
मार्च Mar'10	10472	7177	2831	20050	390	236	486	41197
मार्च Mar'11	10240	8623	3289	22153	382	252	513	42397
प्रतिशत in%	-2.21	20.15	16.20	10.49	-2.05	6.78	5.56	2.91
कम मांग Peak Demand met (MW)								
मार्च Mar'10	9479	6115	2749	15326	390	236	486	34173
मार्च Mar'11	10004	8318	2979	16777	382	252	513	36418
प्रतिशत in%	5.54	36.03	8.37	9.47	-2.05	6.78	5.56	6.57
4. मांग और ऊर्जा में कमतरता प्रतिशतमें	Shortage in demand and energy (%)							
क्षमतामें कमी Capacity shortage	गुजरात Gujarat	मध्य प्रदेश M.P	छत्तिसगढ़ CSEB	महाराष्ट्र Mah.	गोवा Goa	दिव दमण DD	दादरा नगर हवेली DNH	पश्चिम क्षेत्र Western Region
अधिशेष (-)/ surplus (+) (MW)								
मार्च Mar'10	-993	-1062	-82	-4724	0.00	0.00	0.00	-7024
प्रतिशत in%	-9.48	-14.80	-2.90	-23.56	0.00	0.00	0.00	-17.05
मार्च Mar'11	-236	-305	-310	-5376	0	0	0	-5979
प्रतिशत in%	-2.31	-3.53	-9.44	-24.27	0.00	0.00	0.00	-14.10
ऊर्जा में कमी Energy अधिशेष Surplus (+) (MUs)	गुजरात Gujarat	मध्य प्रदेश M.P	छत्तिसगढ़ CSEB	महाराष्ट्र Mah.	गोवा Goa	दिव दमण DD	दादरा नगर हवेली DNH	प क्षेत्र Western Region
मार्च Mar'10	-442.07	-944.71	-7.59	-2174.85	-2.63	0.00	-0.11	-3571.96
प्रतिशत in%	-7.65	-23.42	-0.94	-20.13	-1.07	0.00	-0.03	-16.13
मार्च Mar'11	-124.00	-1005.00	-23.00	-1849.00	-1.00	-19.00	-3.10	-3025.90
प्रतिशत in%	-1.83	-21.41	-1.15	-14.54	-0.42	-10.56	-0.88	-11.23

II

माह मार्च 11 में ग्रिड के प्रमुख उप केन्द्र का विद्युतदाब रूपरेखा

Voltage Profile of major Sub-Stations for the month of March -2011

क्षेत्र Region	सब स्टेशनका नाम Sub station name	अंकितमूल्य विद्युतदाब Nominal Voltage(KV)	विद्युतदाब स्थिती (प्रतिशत समय) Percentage of time when voltage was			अधिकतम विद्युतदाब Max. Voltage(KV)	न्यूनतम विद्युतदाब Min. Voltage(KV)	संक्षिप्त स्पष्टीकरण Brief Explanation
			Below 0.97 p.u.	0.97-1.03 p.u.	Above 1.03 p.u.			
Western	धुले Dhule	400	0.00	22.70	77.30	432	396	
	असोज Asoj	400	1.04	0.00	98.96	427	413	
	कराड Karad	400	0.00	66.37	33.63	427	393	
	कासोर Kasor	400	0.00	0.00	100.00	431	412	
	इन्दौर Indore	400	0.00	62.54	37.46	427	392	
	इटारसी Itarsi	400	0.00	21.62	78.38	427	396	
	जेतपुर Jetpur	400	0.00	29.32	70.68	427	395	
	भिलाई Bhilai	400	0.00	65.79	34.21	419	401	
	बिना Bina	400	0.01	54.42	45.57	428	394	
	ग्वालियर Gwalior	400	0.08	59.69	40.23	430	377	

PROGRESS OF TRANSMISSION LINE CONSTRUCTION IN WR

	Name of transmission line	<u>Length in</u> <u>ckt km.</u>	Commissioning Schedule	Remarks
A	Gujarat			
	I)400kV Lines			
1	Essar - Hadala	226	March`11	work under progress,ROW Problems
2	400 kV Adani-Zerda Line no.2	661.12	Oct'11	Kept in abeyance as M/s APL backed out from PPA
3	400 kV Adani-Zerda Line no.1	661.12		LOI issued on 23.09.09, Firm has regretted the LOI
	II)220kV Lines			
1	220 KV D/C Utran- Kosamba s/s from Vav-Zagadia line-II	86	March`11	work under progress, ROW Problem
2	220 KV D/C GSEG(Hazira)-Kosamba line	124	April'11	Work under progress
3	220 KV D/C GPPC-Dhokadva line	100	April'11	Work under progress
4	LILO of one circuit of 220 KV D/C Savarkundla-Otha line at GPPC	93	March'11	Work under progress
5	LILO of 220 KV Morbi-Halvad line 1 at 400 KV Bhimasar (PG) S/S	215	April'11	Check survey work under progress
6	LILO of 220 KV Morbi-Halvad line 2 at 400 KV Bhimasar (PG) S/S	210	April'11	Check survey work under progress
7	220 KV GSEG(Hazira)-Mota line	111.06	April'11	Check survey work under progress
8	220 KV D/C Nakhatrana-Varsana line	190	June'11	Check survey work under progress
B)	Madhya Pradesh			
	I) 400kV Lines			
	II) 220kV Lines			
1	LILO of 1st ckt DCDS200KV Gwalior-Malanpur at 400kv Gwalior PGCIL S/S	16.4	2010-11	Work restarted and is nearing completion
2	Satna - Chhatapur line	156.32	2010-11	Work under progress

3	Amarkantak- Birsinghpur DCDS at 400kv s/s Sukha (PGCIL)	331.8	2010-11	Work under progress
4	Jabalpur-Narsingpur part line for 400kv PGCIL Sukha	153.14	2010-11	Work almost completed, charging being arranged
5	Chhindwara- Betul	270	2010-11	Work almost completed, railway crossing work balance
6	Chegoan - Nimrani	205	2010-11	Work almost completed, charging being arranged
7	Maheshwar - Rajgarh	230	2011-12	Forest approval not yet received.work not commenced
8	Dewas - Astha line	144	2010-11	Work in progress
C)	Chhatisgarh			
	I) 400kV Lines			
1	LILO of 400 kV Korba(west)-Bhilai to Raipur DCDS	25	Mar'11	Profile of 19.937 km has been approved.
2	400 kV Korba(West) – Khedamara DCDS	224	Dec'11	Work under progress
3	400 KV DCDS Marwa TPP-Proposed 400 KV s/s Raipur	150	Mar'12	Order to be placed in Mar'10
4	LILO of 400 KV Korba(W)Bhilai(Khedmara) line to Marwa TPP	65	Mar'12	Preliminary survey and tender preparation under progress
	II) 220kV Lines			
1	Korba- Bishrampur DCSS	153	2010-11	Payment for forest compensation ha been made, work will start after second phase approval of forest.
2	LILO of 220kv Bhatapara-Raipur (PGCIL)at Doma	21.47	March'11	Work under progress
3	220 KV DCSS Kheedmara - 220KV s/s Bemtara + 1 no. bay at Khedmara & 1 no. at Betemara	50.9	March'11	Work under progress
4	Chhuri - Mopka DC DS line	90	Aug'11	Profile of 34.84 km has been approved
5	I/C between new power house at Korba (E)to proposed 220 kv Chhuri	30	2010-11	Work to be taken up

6	Diversion of 220kv line of Korba (E)- Bhilai emanating from 200 mw ph - II to Korba (E)	30	2009-10	Work to be taken up
7	Diversion of 220kv line of Korba - Bhatapara and 220k I/C in between Korba (w) and proposed 220 kv Cchuri s/s using section of Korba - Amarkantak- I & II	14	2010-11	Work to be taken up
8	Diversion of 220 KV Korba- Amarkantak Ckt-I & II to proposed 200/132 KV Chhuri s/s DCSS	4	2010-11	Land aaquisition under progress
D)	Maharashtra			
	I) 400kV Lines			
1	Bhusawal-II -A'rangabad (location 1-270)	190	March`11	work in progress
2	400 KV D/C line from Chandrapur-Wardha via Warora	123	Apr'11	Work in progress
3	400 KV line from Koradi TPS- Wardha s/s	120	Apr'11	Work in progress
	II) 220kV Lines			
1	Chitegaon-Shendra D/C	43.1	June'11	Excavation work in progress
2	Beed - Patoda D/C	45	March'11	Work in progress
3	Parli TPS-Nanded M/C line (Waghala)	90.3	Apr'11	Work in progress
4	Jaina- Chikhali D/C	150	Apr'11	Work in progress
5	220kv D/C on D/C tower from 400kv Bhusawal-II to 220kv Amalner	182	April'11	Work still in progress
6	220 KV D/C on D/C Tower from Jeur-Paranda	30	May'11	Check survey in progress, work not started.
7	220 KV Koradi-Butibori II D/C line on M/C tower at 400 KV Koradi s/s	53	May'11	Work in progress
8	220 KV Paras-Balapur D/C on M/C	5.61	March'11	Work in progress
Sl.No	POWERGRID			
	765 kV & 400kv			
E)	W R Strengthening scheme-II			

For Absorbing import in Eastern and Central part of WR				
1	765 kv 2nd s/c Seoni(PG)-Wardha(PG)	261	Sep'11	Stringing commenced from April'10
2	400 KV Wardha(PG)-Parli(PG) D/C(quad.)	674	April'11	ROW problem
3	400 KVRaipur(PG) - Wardha(PG) D/C	741	April'11	Work affected due to ROW problem
4	400 KV Bhadravati(PG)-Parli(PG) D/C	776	March'11	Work affected due to ROW problem
5	400 KV Parli (MSEB)-Parli (PG) D/C	14	March'11	Engg & survey under progress
For Regional strengthening in southern Maharashtra to be implemented through IPTC Route by WR transmission (Mah) Pvt. Ltd.				
6	400 KV Parli (PG)-Pune D/C	646	June'11	Objection from KEIPL SEZ on the line routing near Pune end.
7	400 KV Pune (PG)-A'bad(MSEB) D/C	450	Apr'11	Objection from KEIPL SEZ on the line routing near Pune end.
8	400 KV Parli(PG)-Pandharpur/Solapur D/C	272	March'11	WRTPL taken up the matter with MSETCL for clearance of crossing this line over existing line of MSETCL
9	400 KV Solapur(PG)-Kolhapur(MSEB)	438	May'11	All cases submitted for forest clearance
10	LILo of L'khand(MSEB)-Kalwa(MSEB) at Pune(PG) D/C	2.4	March'11	WRTPL taken up the matter with MSETCL for clearance of LILoing of this line
For Regional strengthening in Gujarat to be implemented through IPTC Route by WR transmission (Guj) Pvt. Ltd.				
12	400 KV Rajgarh(PG)-Karamsad(GEB) D/C	468	Mar'11	Forest clearance awaited
13	400 KV Limdi(GEB)-Ranchodpura(GEB) D/C	206	Mar'11	
14	400 KV Ranchodpura(GEB)-Zerda(GEB) D/C	280	March'11	
For Regional strengthening in Northern Madhya Pradesh				
15	400 KV Korba(NTPC)-Birsinghpur(MPSEB) D/C	453	Feb'11	Ist stage forest clearance received
Transmission system associated with Gandhar-II(GBPP)				
18	400 KV Gandhar-Kawas D/C	190	*	* 33 month from

19	400 KV Gandhar-Rajkot D/C	600	*	investment approval or from tying up date of FSA by NTPC whichever is later
20	400 KV Lilo of Bina- Nagda D/C at Shujalpur	60	*	
WR strengthening system-V				
21	400 KV Vapi- Navi Mumbai D/C	258	Dec'11	Severe ROW problem
22	Lilo of L'khand-Kalwa S/C at Navi Mumbai	10	Mar'11	Severe ROW problem
WR strengthening system-VI				
23	400 KV Dehgam Pirana D/C	92	Mar'11	
WR strengthening system-IX				
24	LILO of 400 KV Bina-Nagda Line at Sujalpur	60	Mar'11	Award placed in Nov'09
WR strengthening system-X				
25	LILO of 765 KV Sipat-Seoni line near Sipat at Bilaspur	14	Feb'12	Tendering under progress connected with Bilaspur Pooling station
WR strengthening system-XI				
26	LILO of 765 KV 2nd Sipat-Seoni line near Sipat at Bilaspur	24	Feb'12	Tendering under progress connected with Bilaspur Pooling station
Transmission system associated with Korba-III				
27	400 KV D/C Korba STPS-Raipur line	430	June'11	Effort is being made to complete the line earlier
Transmission system associated with Mundra UMPP				
28	400 KV D/C Mundra-Limbdi	626	Dec'11	Wild life sanctuary portion clearance awaited
29	400 KV D/C Mundra-Bachchauranchodpur	764	Dec'11	Wild life sanctuary portion clearance awaited
30	400 KV D/C Mundra-Bachchauranchodpur Jetpur	666	Mar'12	Wild life sanctuary portion clearance awaited
31	400 KV D/C Gandhar-Navsari line	212	Dec'11	River crossing
32	400 KV D/C Navsari-Mumbai	408	June'12	01 out of 02 package awarded.
33	400 KV D/C Wardha-Aurangabad	800	Oct'12	Tendering under progress
34	400 KV D/C Aurangabad-Aurangabad(MSETCL)line	60	Oct'12	Tendering under progress
35	LILO of both ckt of Kawas-Navsari 220 kV D/C at Navsari	100	Oct'12	Tendering under progress
Transmission system associated with Sasan UMPP				

37	765 KV Sasan-Satna Line-I	257	Dec'12	
38	765 KV Sasan-Satna Line-II	260	Dec'12	Tower package awarded
39	765 KV Satna-Bina Line I	279	Dec'12	
40	765 KV Satna-Bina Line II	274	Dec'12	
41	765 KV Sasaram-Fatehpur line II	352	Dec'12	Tendering under progress
42	765 KV Agra-Fatehpur line	340	Dec'12	Tendering under progress
43	400 KV Bina-Bina(MPPTCL)line	10	Dec'12	Award placed in Mar'09,Engg. Under progress
44	LILO of both ckt of Vindhyanchal - Jabalpur 400 KV D/C at Sasan	10	Dec'12	Award placed in Feb'09,Engg. Under progress
45	765 KV Bina-Indore line	320	Dec'12	
46	400 KV Indore-Indore(MPPTCL) line	120	Dec'12	
	INTER-REGIONAL LINES			
	East-West transmission corridor strengthning scheme			
1	400 KV Raigarh-Rourkela D/C	420	March'11	Under Progress

PROGRESS OF ONGOING GENERATION PROJECT IN WESTERN REGION

Sr.No.	Name of the power project	Unit No.	Capacity(MW)	commissionig schedule
A	<u>GUJARAT</u>			
1	Ukai TPS extn	6	490	Mar-11
2	Pipavav CCGP-GPCL & GSPC joint venture	block 1 block 2	350 350	Mar-11 Mar-11
3	Mundra ultra mega TPP (TATA)	1 2	800 800	Sep-11 Sep-12
4	Hazira CCGP Expansion GSEG	GT+ST	350	Mar-11
	OTHER PROJECTS			
1	Gujarat lignite NLC&GPCL joint venture	Stage 1 Stage 2	1500 500	2011-12 2012-13
2	Pipavav TPP - Torrent power		1000	2011-12
3	Mundra STPP (Adani power ltd)	1 2	660 660	Jan-11 Jun-11
B	<u>MADHYA PRADESH</u>			
1	Amarkantak TPS	2	500	Apr-11
2	Satpura TPS ext.	10 11	250 250	May-11 Mar-11
	OTHER PROJECTS			
1	Maheshwar HEP		400	2010-2011
2	Malwa TPP	1	500	Mar-11
C	<u>CHATTISGARH</u>			
1	Marwa TPP	1 2	500 500	Sep-12 Nov'12
2	Korba west -III TPP	1	500	Jun-12
	OTHER PROJECTS			
1	Bhaiyathan TPP Phase 1	1 2	500 500	Dec-12 Aug-13
2	IFFCO	1	660	Aug-12
			660	Dec-12
D	<u>MAHARASHTRA</u>			
1	Khaperkheda TPS Extn.	1 4	500 500	Mar-11 Mar-11
2	JSW Ratnagiri TPP (JSW Ltd.)	2 3 4	300 300 300	Apr-11 Jun-11 Mar'11
	OTHER PROJECTS	1	800	Oct-12
1	Koradi TPS extn	1	800	Nov-11
2	Dhopawe TPS	2 block 2	800 340	May-12 Mar-11
3	Utran CCGP	1	800	Apr-12
4	Koradi TPS extn.(replacement)	1	500	Dec-11
5	Chandrapur TPS Extn	2	500	May-12
E	<u>CENTRAL SECTOR</u>			
1	Sipat TPP	2 3	660 660	May'11 Nov'11
2	Korba STPS - III	1	500	2011-12
3	Mauda TPP	2	500	2012-13

Annexure-IV(1)

माह मार्च 2011 का अंतर राज्य में ऊर्जा पारेषण

A) Inter-Regional Transfer Of Energy For The Month Of March- 2011	
EXPORT	Mus
NET EXPORT TO ER	342.00
NET EXPORT TO NR	617.00
NET EXPORT TO SR	734.00

Annexure-IV(2)

B) INTRA- REGIONAL ENERGY EXCHANGES(In Mus)	
DESCRIPTION	Mus
NSPCL CSEB to DD (BILATERAL)	49.78
NSPCL CSEB to DD (DD)	21.55
NSPCL CSEB to DNH (BILATERAL)	71.15
NSPCL CSEB to DNH (DNH)	38.50
RINFRA MSEB to MPSEB (MPSEB)	34.80
TORRENT_GUVNL to MPSEB (12.00
TORRENT_GUVNL to MPSEB (PTC	52.22
GUVNL to MSEB (IEXL)	57.60
JPL to MSEB (NVVNL)	60.00
JPL to RINFRA MSEB (JPL)	171.37

AUFLS OPERATION DURING March, 2011

In the month of March, 2011 , frequency remained below 49.5 Hz for 3.53% of the time .
During the month frequency did not touch 48.8 Hz .

The details of operation of AUFLS are given below.

State	Dates on which frequency relays at 48.8 Hz operated	Actual load relief obtained (MW) (Range)	Load relief required as per the scheme (MW)	Dates on which U/F relays did not operate
Maharashtra	Nil	Nil	550	Nil
Gujarat	Nil	Nil	220	Nil
Madhya Pradesh	Nil	Nil	152	Nil
CSEB	Nil	Nil	38	Nil

REMARKS : The AUFLS operation is not consistent. During certain times of the day, load relief is very meager and not adequate to act as a defence mechanism against major disturbances.
The load relief obtained from Maharashtra , Gujarat and Madhya Pradesh are

(C) Exchanges through Indian Energy Exchange (All figures are in KWH)

(Figures

TOTAL	GUVNL	MPPTCL	CSEB	MSEDCL	GOA	DD
(345,009,911)	(145,338,150)	3,031,430	(144,184,070)	10,919,950	(25,982,240)	0.000

(D) Exchanges through Power exchange India ltd. (All figures are in KWH)

(Figures

TOTAL	GUVNL	MPPTCL	CSEB	MSEDCL	GOA	DD
(89,936,990)	(95,070,720)	6,481,550	(7,728,940)	6,430,000	0	0

(E) Scope for further increase in Inter-state energy transfer and constraints if any: Nil

Generating Station Details

CENTRAL SECTOR GENERATING STATIONS

NTPC

TYPE	STATION	INSTALLED CAPACITY		EFFECTIVE CAPACITY	
		UNITS	TOTAL (MW)	UNITS	TOTAL (MW)
THERMAL	KSTPS	3x200+4x500	2600	3x200+4x500	2600
	VSTPS	6x210+4x500	3260	6x210+4x500	3260
	Sipat STPS-II	2X500	1000	2X500	1000
	Bhilai TPP	1x250	250	1x250	250
TOTAL THERMAL			7110		7110
GAS	KAWAS	4x106+2x116.1	656.20	4x106+2x116.1	656.20
	GANDHAR	3x144.3+1x224.49	657.39	3x144.3+1x224.49	657.39
TOTAL GAS			1313.59		1313.59
GRAND TOTAL			8423.59		8423.59

NPCIL

TYPE	STATION	INSTALLED CAPACITY		EFFECTIVE CAPACITY	
		UNITS	TOTAL (MW)	UNITS	TOTAL (MW)
NUCLEAR	TAPS	2x160+2x540	1400	2x160+2x540	1400
	KAPS	2x220	440	2x220	440
TOTAL NUCLEAR			1840		1840

CENTRAL SECTOR SUMMARY

TOTAL CENTRAL	THERMAL		7110		7110
SECTOR	GAS		1313.59		1313.59
	NUCLEAR		1840		1840
GRAND TOTAL (CENTRAL SECTOR)			10263.59		10263.59

IPP(Independent Power Plant Generation)

	JINDAL TPP	4x250	1000	4x250	1000
	LANCO-Amarkantak	2x300	600	2x300	600
	Mundra APL	4*330 + 1*660	1980	4*330 + 1*660	1980
			3580		3580

STATE SECTOR GENERATING STATIONS

GUJARAT					
TYPE	STATION	INSTALLED CAPACITY		EFFECTIVE CAPACITY	
		UNITS	TOTAL (MW)	UNITS	TOTAL (MW)
HYDRO	UKAI	4x75	300	4x75	300
	UKAI (LBCH)	2x2.5	5	2x2.5	5
	KADANA	4x60	240	4x60	240
	PANAM CANAL	2x1	2	2x1	2
	SARDAR SAROVAR	16% of 1450	232	16% of 1450	232
TOTAL HYDRO			779		779
THERMAL	A.E.Co.	1x60+2x110+120	400	1x60+2x110+120	400
	DHUVARAN	2x110	220	2x110	220
	UKAI	2x120+2x200+1x210	850	2x120+2x200+1x210	850
	GANDHI NAGAR	2x120+3x210	870	2x120+3x210	870
	WANAKBORI	7x210	1470	7x210	1470
	SIKKA	2x120	240	2x120	240
	KUTCH LIGNITE	2x70+2x75	290	2x70+2x75	290
	SURAT LIGNITE	4x125	500	4x125	500
	AKRIMOTA	2x125	250	2x125	250
	Mundra(APL)	4*330 + 1*660	1980	4*330 + 1*660	1980
TOTAL THERMAL			7070		7070
GAS	DHUVARAN	1x218.62	218.62	1x218.62	218.62
	TORRENT POWER	2X32.5+35.0(ST)	100	2X32.5+35(ST)	100
	UTRAN-I	3x33+1x45	144	2x30+1x32+1x45	137
	UTRAN-II	1X228+1X146(ST)	374	1X228+1X146(ST)	374
	GIPCL	1x106+1x54+2x125	410	1x106+1x54+2x125	410
	ESSAR	3x110+1x185 (ST)	515	3x110+1x185	515
GAS	GPEC	3x135+1x250	655	3x135+1x250	655
	GSEG HAZIRA	2x52+1x52.1 (ST)	156.1	2x52+1x52.1 (ST)	156.1
	SUGEN	3X382.5	1147.5	3X382.5	1147.5
TOTAL GAS			3720.22		3713.22
Diesel			17.48		17.48
RES			200.47		200.47
TOTAL GUJARAT	HYDRO		779		779
	THERMAL		7070		7070
	GAS		3720.22		3713.22
GRAND TOTAL (GUJARAT)			11787.17		11780.17

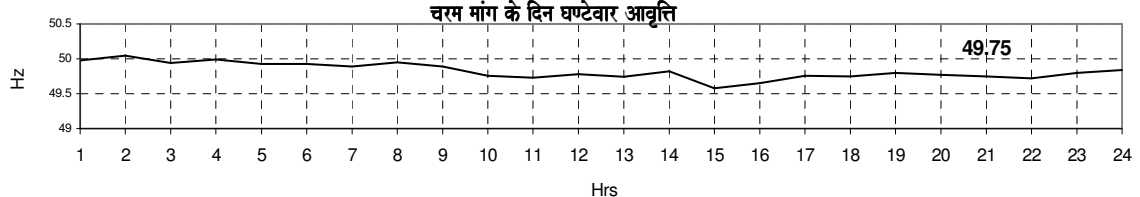
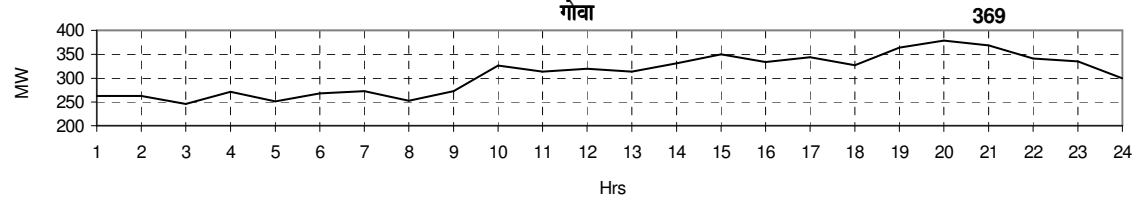
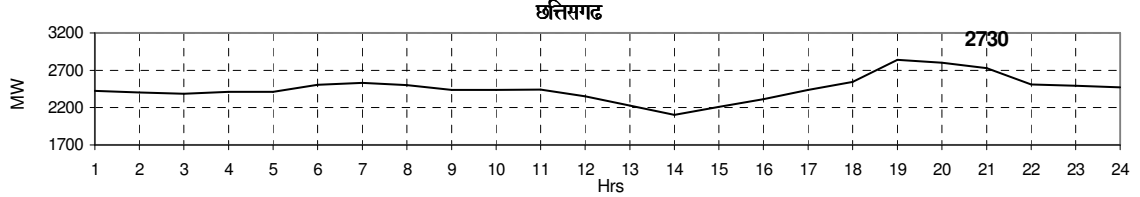
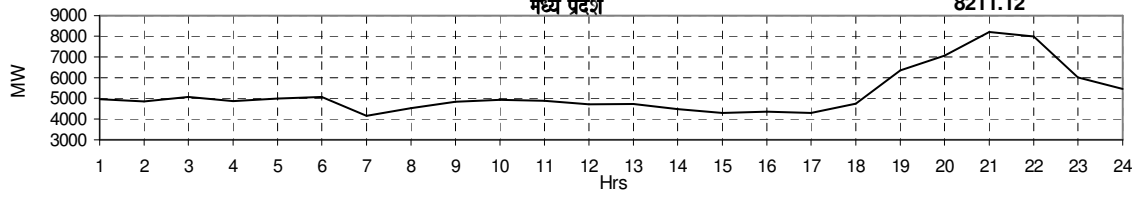
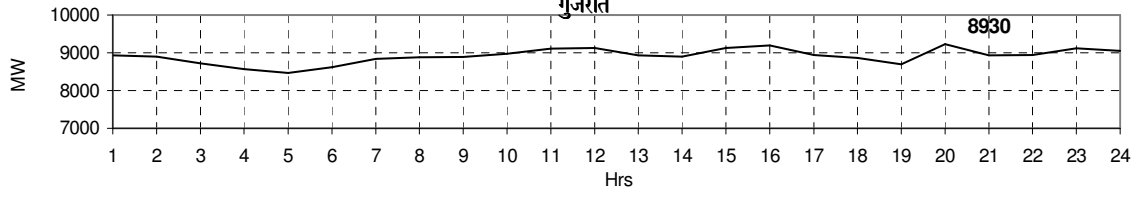
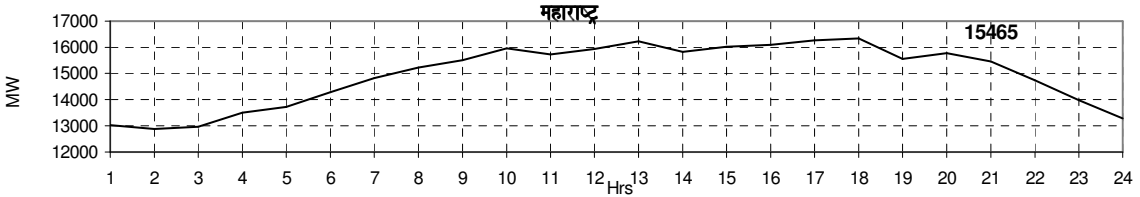
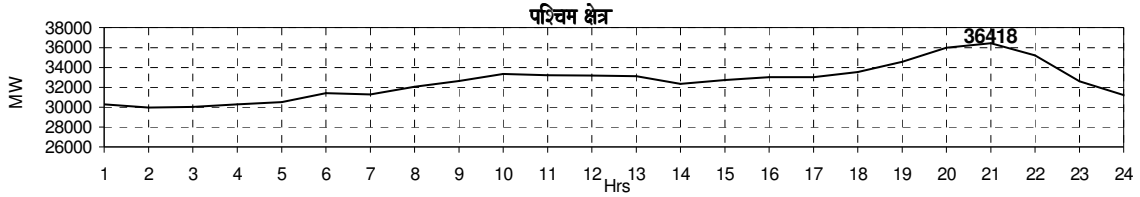
MADHYA PRADESH					
TYPE	STATION	INSTALLED CAPACITY		EFFECTIVE CAPACITY	
		UNITS	TOTAL (MW)	UNITS	TOTAL (MW)
HYDRO	GANDHI NAGAR	5x23 (50%)	57.5	5x23 (50%)	57.5
	R P SAGAR	4x43 (50%)	86	4x43 (50%)	86
	J SAGAR	3x33 (50%)	49.5	3x33 (50%)	49.5
	PENCH SHARE	2x80 (66.67%)	106.672	2x80 (66.67%)	106.672
	BANASAGAR TONS	1x315	315	1x315	315
	BARGI	2x50	100	2x50	100
	BANASAGAR	1x30+1x60+1x20	110	1x30+1x60+1x20	110
	BIRSINGHPUR	1x20	20	1x20	20
	RAJGHAT	3x15(50%)	22.5	3X15(50%)	22.5
	INDIRA SAGAR	8x125	1000	8x125	1000
	MADHIKHEDA HEP	2X20	40	2X20	40
	MINI & MICRO HYDRO	13.5	13.5	3.25	13.5
*	Omkareswar Hydro	8x65	520	8x65	520
	SARDAR SAROVAR	57% of 1450	826.5	57% of 1450	826.5
TOTAL HYDRO			3267.17		3267.17
THERMAL	AMARKANTAK	2X120+1X210	450	2X120+1X210	450
	SATPURA-I	5x62.5 (60%)	187.5	5x62.5 (60%)	187.5
	SATPURA-II	1x200+1x210	410	1x200+1x210	410
	SATPURA-III	2x210	420	2x210	420
	S GANDHI TPS	4x210	840	4x210	840
	S GANDHI TPS	1x500	500	1x500	500
TOTAL THERMAL			2807.5		2807.5
TOTAL MADHYA PRADESH	HYDRO		3267.17		3267.17
	THERMAL		2807.5		2807.5
Diesel			0		0
RES			267		267
GRAND TOTAL (MADHYA PRADESH)			6341.67		6341.67

CHHATISGARH					
TYPE	STATION	INSTALLED CAPACITY		EFFECTIVE CAPACITY	
		UNITS	TOTAL (MW)	UNITS	TOTAL (MW)
HYDRO	HASDEO BANGO	3x40	120	3x40	120
	Gangrel	1x5	5	1x5	5
TOTAL HYDRO			125		125
THERMAL	KORBA (E)	4x50+2x120	440	4X50+2X120	440
	KORBA (W)	4x210	840	4x210	840
*	KORBA (E) ext-I	2x250	500	2x250	500
TOTAL THERMAL			1780		1780
TOTAL	HYDRO		125		125
CHHATISGARH	THERMAL		1780		1780
Diesel			0		0
RES			250.95		250.95
GRAND TOTAL (CHHATISGARH)			2155.95		2155.95
MAHARASHTRA					
TYPE	STATION	INSTALLED CAPACITY		EFFECTIVE CAPACITY	
		UNITS	TOTAL (MW)	UNITS	TOTAL (MW)
HYDRO	KOYNA I & II	4x(65+5)+4x(75+5)	600	4x(65+5)+4x(75+5)	600
	KOYNA III	4x80	320	4x80	320
	KOYNA DPH	2x20	40	2X18	36
	KOYNA IV	4x250	1000	4x250	1000
TATA HYDRO	KHOPOLI	1 TO 8	96	1 TO 8	96
	BHIVPURI	1 TO 7	99	1 TO 7	99
	BHIRA	6x25	150	6x25	150
	BHIRA PSS	1x150	150	1x150	150
	VAITHARNA	1x60+1x1.5	61.5	1x60+1x1.5	61.5
	ELDARI	3x7.5	22.5	3x7.5	22.5
	VEER & BHATGAR	2x4.5+1x16	25	2x4.5+1x16	25
	PAITHAN	1x12	12	1x12	12
	TILLARI	1x60	60	1x60	60
	RADHANAGRI	4x1.2	4.8	4x1.2	4.8
	BHIRA T/R	2x40	80	2x40	80
	BHANDARDHARA	1 & 2	46	1 & 2	46
	DUDHGANGA	2x12	24	2x12	24
	PENCH DRAWAL	2x80 (33.33%)	53.328	2x80 (33.33%)	53.328
	PAWANA	1x10	10	1x10	10
	BHATSA	1x15	15	1x15	15
	DHOM	2x1	2	2x1	2

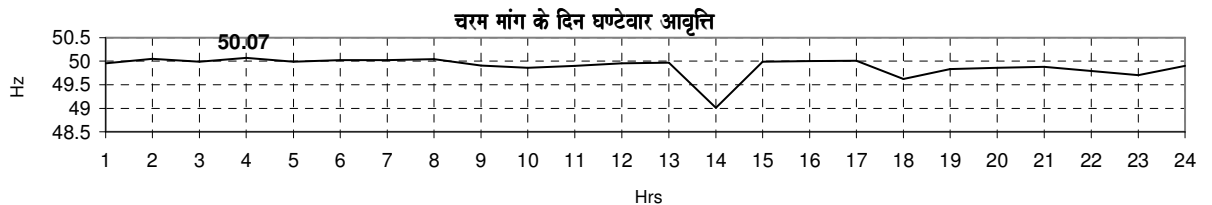
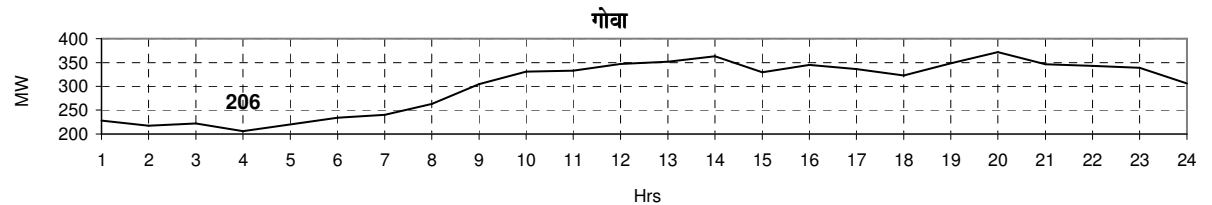
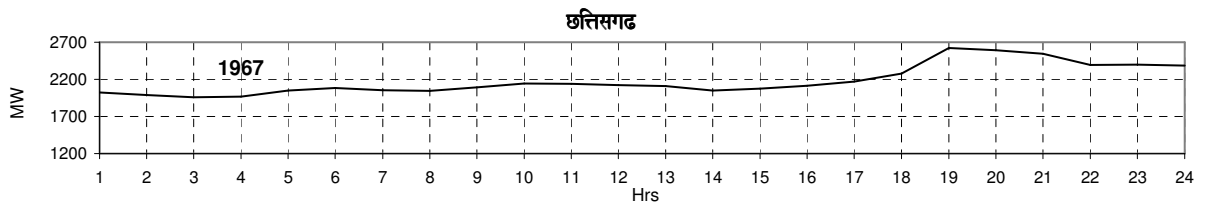
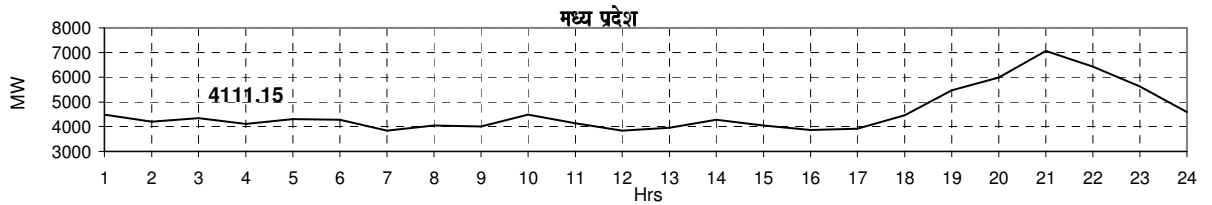
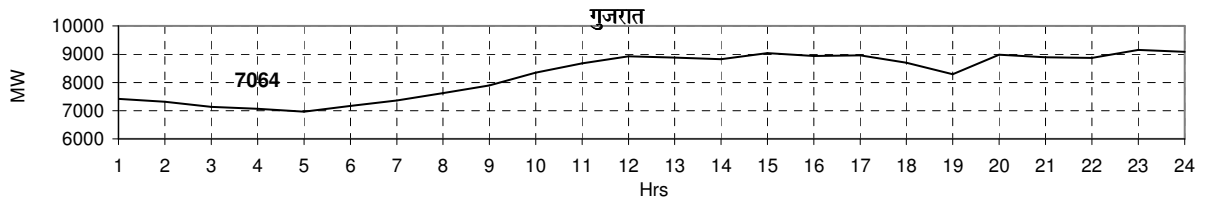
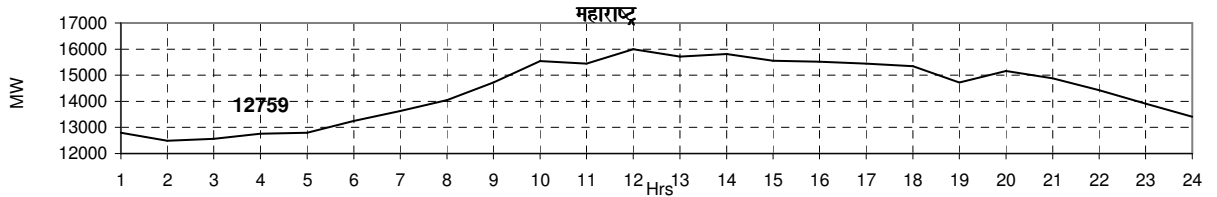
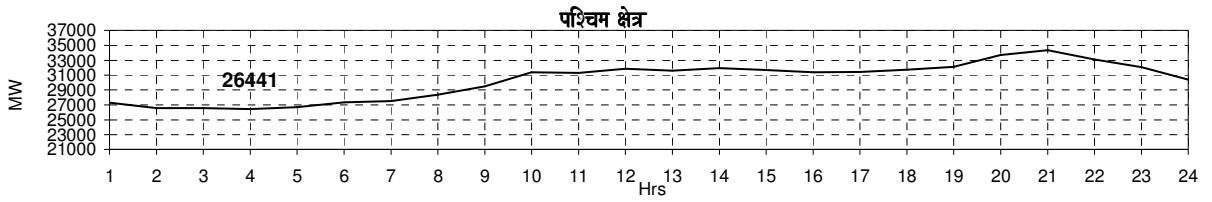
	KANHAR	1x4	4	1x4	4
	MANIKDOH	1x6	6	1x6	6
	UJJANI	1x12	12	1x12	12
	DIMBHE	1x5	5	1x5	5
	SURYA	1X6+1X0.75	6.75	1x0.75+1x6	6.75
	PANSHET	1x8	8	1x8	8
	VARASGAON	1x8	8	1x8	8
	WARNA	2x8	16	2x8	16
	YEOTESHWAR	1x0.08	0.08	1x0.08	0.08
	TERWANMEDHE	1x0.2	0.2	1x0.2	0.2
	GHATGHAR	2x125	250	2x125	250
	SARDAR SAROVAR	27% of 1450	391.5	27% of 1450	391.5
TOTAL HYDRO			3578.658		3574.658
THERMAL	CHANDRAPUR	4x210+3x500	2340	4x210+3x500	2340
	TROMBAY	1x150+2x500+1X250	1400	1x150+2x500+1X250	1400
*	KORADI	1x200+2x210	620	1x200+2x210	620
	NASIK	2x125+3x210	880	2x125+3x210	880
	KHAPERKHEDA	4x210	840	4x210	840
*	PARLI	2x20+3x210	670	2x20+3x210	670
	BHUSAWAL	2x210	420	2x210	420
	REL DAHANU	2x250	500	2x250	500
	PARAS	1x55	55	1x55	55
*	PARAS	2x250	500	2x250	500
	NEW PARLI	2x250	500	2x250	500
	JSW Ratnagiri	4x300	1200	4x300	1200
	Wardha Warora	3x135	405	3x135	405
TOTAL THERMAL			10330		10330
GAS	TROMBAY-7A & 7B	120+60	180	120+60	180
*	URAN (G)	4x60+4x108	960	3x60+4x108	900
	URAN-DPH	2x120	240	2x120	240
	RATNAGIRI PH - I	PHASE-I	740	PHASE-I	740
	RATNAGIRI PH - II	PHASE-II	740	PHASE-II	740
	RATNAGIRI PH-III	PHASE-III	740	PHASE-III	740
TOTAL GAS			3600		3540
Diesel			0		0
RES			2809.33		2809.33
MAHARASHTRA	HYDRO		3578.658		3574.658
	THERMAL		10330		10330
	GAS		3600		3540
	WIND+RES		2809.33		2809.33
GRAND TOTAL (MAHARASHTRA)			23127.318		20253.988

GOA					
TYPE	STATION	INSTALLED CAPACITY		EFFECTIVE CAPACITY	
		UNITS	TOTAL (MW)	UNITS	TOTAL (MW)
Diesel			0		0
RES			0		0
GAS	RELIANCE, SALGAONKAR	1x39.82+1x8.2	48.02	1x39.82+1x8.2	48.02
GRAND TOTAL (GOA)			48.02		48.02

पश्चिम क्षेत्र का चरम भार दिन के प्रतिघंटा भार वक्र
HOURLY DEMAND CURVES ON REGIONAL PEAK DAY 09.03.2011

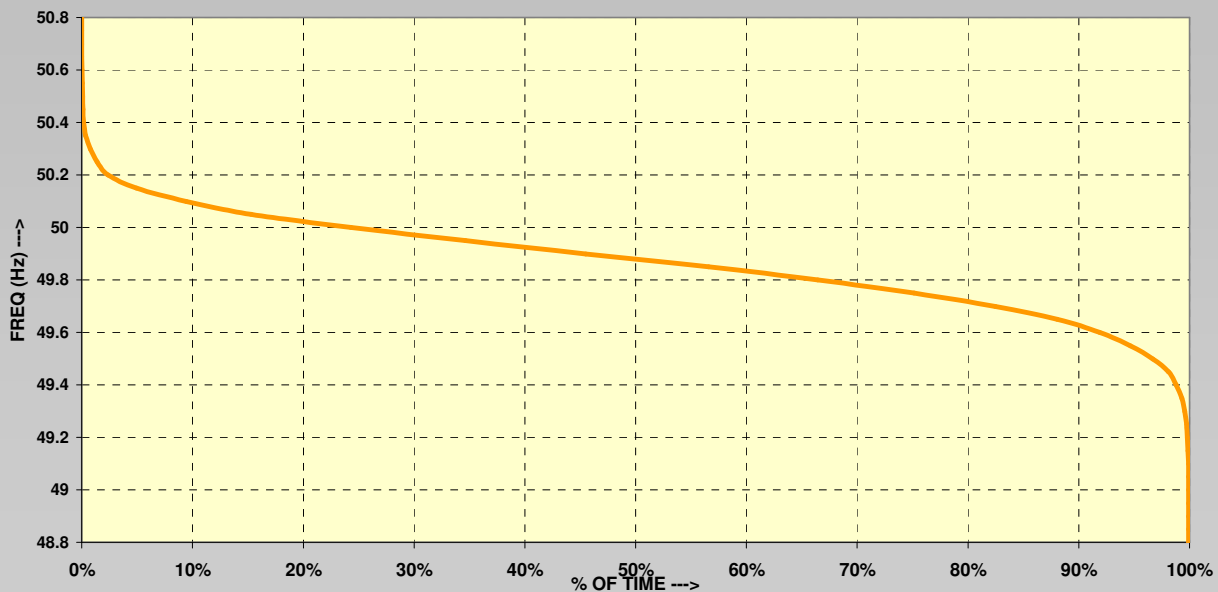


पश्चिम क्षेत्र का न्यूनतम भार दिन के प्रतिघंटा भार वक्र
HOURLY MIN.DEMAND CURVES ON REGIONAL PEAK DAY 21.03.2011

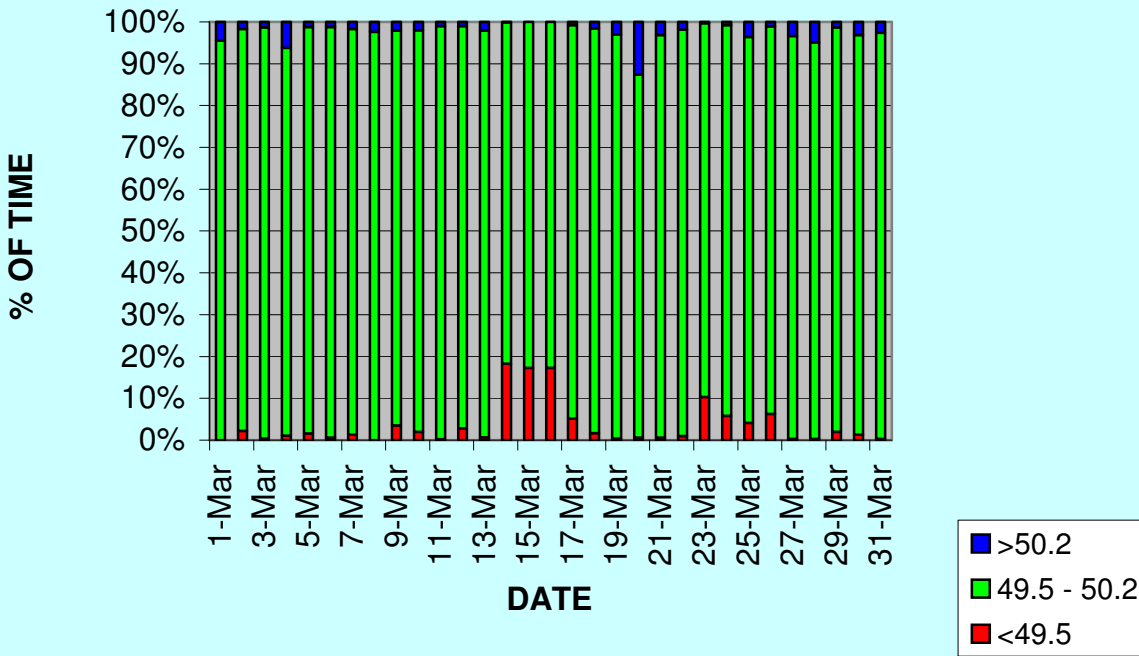


NEW GRID FREQUENCY DUR ATION CURVE FOR MARCH '11

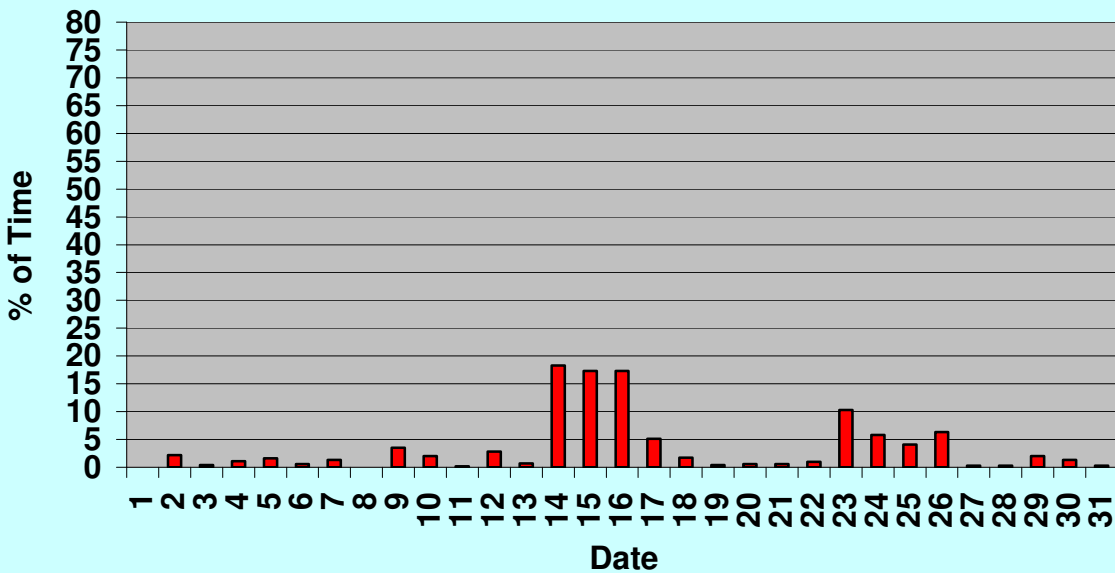
Max =50.64Hz, Min=49.00Hz Average = 49.86



Frequency Profile - MARCH'11



% of time Freq remained less than 49.5 in March'11 -Max 18.3 as compared to 26.8 max in Feb'11



WIND GENERATION MARCH-11

