

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 08.03.2012
Date of Reporting : 09.03.2012

I. Regional Availability/Demand:

Evening Peak (19:00 Hrs) MW				Off Peak (03:00 Hrs) MW				Day Energy (Net MU)	
Demand Met	Shortage	Requirement	Freq* (Hz)	Demand Met	Shortage	Requirement	Freq* (Hz)	Demand Met	Shortage
28446	550	28996	50.11	25676	670	26346	50.11	649.9	18.62

* Half hourly (two 15 minutes block-one block each before and after the designated time) average frequency

II. A. State's Load Details (At States periphery) in MUs:

State	State's Control Area Generation (Net MU)				Drawal Schedule (Net MU)	Actual Drawal (Net MU)	UI (Net MU)	Consumption (Net MU)	Shortages * (MU)
	Thermal	Hydro	Renewable/others \$	Total					
Punjab	44.59	11.09		55.68	38.94	43.14	4.20	98.82	1.80
Haryana	49.66	0.60		50.26	26.88	40.96	14.08	91.22	0.19
Rajasthan	62.60	5.03	21.17	88.80	44.84	54.30	9.46	143.10	0.00
Delhi	20.64			20.64	33.69	22.59	-11.10	43.24	0.00
UP	84.07	7.59	14.40	106.06	87.02	97.29	10.28	203.36	14.73
Uttarakhand		10.57		10.57	13.45	10.30	-3.14	20.87	0.00
HP		5.84		5.84	16.51	11.07	-5.44	16.91	0.00
J & K		8.24	0.00	8.24	24.14	21.34	-2.80	29.57	1.90
Chandigarh				0.00	3.61	2.78	-0.83	2.78	0.00
Total	261.57	48.96	35.57	346.10	289.08	303.77	14.69	649.87	18.62

* Shortage furnished by the respective constituent.\$ Others include UP Co-generation and JK Diesel

II. B. State's Demand Met in MWs:

State	Evening Peak (19:00 Hrs) MW				Off Peak (03:00 Hrs) MW				Day Energy MU
	Demand Met	Shortage	UI	STOA/PX transaction	Demand Met	Shortage	UI	STOA/PX transaction	
Punjab	4782	150	524	-225	3700	0	-110	-148	-3.86
Haryana	4094	0	693	-165	3360	0	374	-170	-4.02
Rajasthan	4901	0	-115	6	6683	0	590	6	2.35
Delhi	2160	0	-357	-69	1344	0	-642	-294	-3.30
UP	9164	300	1260	265	7984	670	-82	265	6.36
Uttarakhand	1043	0	-137	150	825	0	-7	150	3.60
HP	702	0	-626	-294	681	0	28	146	0.39
J&K	1451	100	-153	-48	1013	0	-149	-28	-0.91
Chandigarh	149	0	-42	0	86	0	-7	0	0.00
Total	28446	550	1047	-379	25676	670	-5	-73	0.61

* STOA figures are at sellers boundary & PX figures are at regional boundary.

III. Regional Entities :

Entity	Station/ Constituent	Inst. Capacity (Effective) MW	Declared Capacity(MW)	Peak MW (Gross)	Off Peak MW (Gross)	Energy (Net MU)	Average Sentout(MW)	Schedule Net MU	UI Net MU
A. NTPC	Singrauli STPS	2000	1960	2060	2102	46.74	1948	46.71	0.03
	Rihand I STPS	1000	890	870	960	20.55	856	20.50	0.05
	Rihand II STPS	1000	970	929	1035	22.40	933	22.28	0.12
	Dadri I STPS	840	800	457	608	10.47	436	10.06	0.41
	Dadri II STPS	980	956	697	778	16.84	702	17.22	-0.38
	Unchahar I TPS	440	406	308	367	8.14	339	8.15	-0.02
	Unchahar II TPS	440	404	315	321	7.65	319	7.68	-0.02
	Unchahar III TPS	210	202	158	174	3.89	162	3.88	0.01
	ISTPP (Jhajjar)	1000	0	0	0	0.00	0	0.00	0.00
	Dadri GPS	830	833	498	573	12.46	519	12.34	0.12
	Anta GPS	419	413	248	286	6.45	269	6.33	0.12
	Auraiya GPS	663	641	276	327	6.75	281	6.69	0.06
	Sub Total (A)	9822	8475	6816	7531	162.33	6764	161.83	0.50
	B. NPC	NAPS	440	273	315	314	6.74	281	6.55
RAPS- B		440	420	463	470	10.18	424	10.08	0.10
RAPS- C		440	420	474	474	10.22	426	10.08	0.14
Sub Total (B)		1320	1113	1252	1258	27.14	1131	26.71	0.42
C. NHPC	Chamera I HPS	540	534	540	0	5.37	224	7.00	-1.63
	Chamera II HPS	300	297	125	0	2.02	84	2.62	-0.60
	Bairasuil HPS	180	179	179	60	2.93	122	3.41	-0.48
	Salal-HPS	690	350	385	289	6.81	284	7.30	-0.48
	Tanakpur-HPS	94	26	31	20	0.59	25	0.55	0.05
	Uri-HPS	480	476	478	403	11.19	466	11.37	-0.17
	Dhauliganga-HPS	280	210	141	0	0.78	33	0.81	-0.03
	Dulhasti-HPS	390	388	394	0	3.60	150	2.78	0.82
	Sewa-II HPS	120	119	122	35	2.27	95	1.75	0.51
	Sub Total (C)	3074	2578	2395	807	35.57	1482	37.58	-2.01
D. NJPC	Nathpa Jhakri	1500	1267	1569	0	7.02	293	7.45	-0.43
	Sub Total (D)	1500	1267	1569	0	7.02	293	7.45	-0.43
E. THDC	Tehri HPS	1000	820	609	0	6.23	260	6.50	-0.27
	Koteshwar HPS	300	300	291	0	2.80	117	2.50	0.30
	Sub Total (E)	1300	1120	900	0	9.03	376	9.00	0.03
F. BBMB	Bhakra HPS	1480	781	1151	415	19.10	796	18.75	0.35
	Dehar HPS	990	234	495	140	5.79	241	5.63	0.17
	Pong HPS	396	271	368	186	6.61	275	6.50	0.11
	Sub Total (F)	2866	1287	2014	741	31.50	1313	30.88	0.62
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	0	0	0.21	9	0.13	0.08
	KWHEP HPS(IPP)	1000	0	350	0	3.59	150	4.38	-0.79
	Malana Stg-II HPS	100	0	0	0	0.00	0	0.00	0.00
	Shree Cement TPS	300	0	116	112	2.80	117	2.78	0.02
	Sub Total (G)	1592	0	466	112	6.59	275	7.29	-0.69
H. Total Regional Entities (A-G)	21475	15840	15412	10449	279.18	11632	280.74	-1.56	

I. State Entities	Station	Effective Installed Capacity (MW)	Peak MW	Off Peak MW	Energy(MU)	Average(Sent out MW)
Punjab	Guru Gobind Singh TPS (Ropar)	1260	900	900	21.16	882
	Guru Nanak Dev TPS(Bhatinda)	440	204	217	4.51	188
	Guru Hargobind Singh TPS(L.mbt)	920	843	824	18.92	788
	Thermal (Total)	2620	1947	1941	44.59	1858
	Total Hydro	1148	459	461	11.09	462
	Total Punjab	3768	2406	2402	55.68	2320
Haryana	Panipat TPS	1360	869	870	21.12	880
	DCRTPP (Yamuna nagar)	600	276	278	6.60	275
	Faridabad GPS (NTPC)	432	355	327	8.01	334
	RGTPP (khedar) (IPP)	1200	568	556	13.93	581
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	660	0	0	0.00	0
	Thermal (Total)	4277	2068	2031	49.66	2069
	Total Hydro	62	25	25	0.60	25
	Total Haryana	4339	2093	2056	50.26	2094
Rajasthan	kota TPS	1240	535	975	18.27	761
	suratgarh TPS	1500	671	908	18.65	777
	Chabra TPS	500	0	197	1.71	71
	Dholpur GPS	330	258	247	6.15	256
	Ramgarh GPS	113	42	41	1.06	44
	RAPS A (NPC)	300	184	185	4.55	190
	Barsingsar (NLC)	250	105	108	2.30	96
	Giral LTPS (IPP)	250	0	109	1.37	57
	Rajwest LTPS (IPP)	540	355	355	8.55	356
	VSLP LTPS (IPP)	135	0	0	0.00	0
	Thermal (Total)	5158	2150	3125	62.60	2608
	Total Hydro	550	204	223	5.03	210
	Wind power	1294	750	1073	20.06	836
	Biomass	71	46	46	1.11	46
	Solar	50	0	0	0.00	0
	Renewable/Others (Total)	1365	796	1119	21.17	882
	Total Rajasthan	7073	3150	4467	88.80	3700
UP	Anpara TPS	1630	1507	1499	32.40	1350
	Obra TPS	1442	580	573	12.50	521
	Paricha TPS	640	227	260	4.70	196
	Panki TPS	210	165	180	3.20	133
	Harduaganj TPS	415	48	196	1.30	54
	Tanda TPS (NTPC)	440	303	299	7.81	325
	Roza TPS (IPP)	900	392	396	11.24	468
	Anpara-C (IPP)	1200	378	382	9.21	384
	Bajaj Energy Pvt.Ltd(IPP) TPS	180	72	71	1.72	71
	Thermal (Total)	7057	3672	3856	84.07	3503
	Vishnuparyag HPS (IPP)	400	74	79	1.80	75
	Other Hydro	527	283	0	5.79	241
	Cogeneration	951	600	600	14.40	600
	Total UP	8935	4629	4535	106.06	4344
Uttarakhand	Total Hydro	1303	514	390	10.57	440
	Total Uttarakhand	1303	514	390	10.57	440
Delhi	Rajghat TPS	135	109	108	2.70	113
	Delhi Gas Turbine	282	39	79	1.30	54
	Pragati Gas Turbine	330	263	281	6.70	279
	Rithala GPS	108	24	24	0.60	25
	Bawana GPS	440	0	0	0.00	0
	Badarpur TPS (NTPC)	705	400	430	9.34	389
	Thermal (Total)	2000	835	922	20.64	860
	Total Delhi	2000	835	922	20.64	860
HP	Baspa HPS (IPP)	330	79	0	0.93	39
	Malana HPS (IPP)	101	0	0	0.17	7
	Other Hydro	571	227	192	4.75	198
	Total HP	1002	306	192	6	244
J & K	Baglihar HPS (IPP)	450	296	291	6.27	261
	Other Hydro	323	84	89	1.97	82
	Gas/Diesel/Others	183	0	0	0.00	0
	Total J & K	956	380	380	8.24	343
Total State Control Area Generation		29376	14313	15344	346.10	14346
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			1246	1257	43.35	1806
Total Regional Availability(Gross)		50851	30971	27050	668.62	27784

IV. Total Hydro Generation:

Regional Entities Hydro	10033	7228	1548	86.91	3621
State Control Area Hydro	5365	2171	1671	47.15	1965
Total Regional Hydro	15397	9399	3219	134.06	5586

V(A). Inter Regional Exchange [Import (+ve)/Export (-ve)] [Linkwise]

Element	Peak(19:00 Hrs)	Off Peak(03:00 Hrs)	Maximum Interchange (MW)		Energy (MU)		Net Energy MU
	MW	MW	Import	Export	Import	Export	
Vindhychal B/B	350	0	350	0	1.09	0.00	1.09
Gwalior-Agra (D/C)	351	550	1492	0	18.51	0.00	18.51
Zerda-Kankroli	216	-157	275	168	0.73	0.00	0.73
Zerda-Bhinmal	62	-110	287	173	1.56	0.00	1.56
Malanpur-Auraiya	-87	-96	0	127	0.00	0.97	-0.97
Badod-Kota/Morak	63	46	111	0	1.60	0.00	1.60
Sub Total WR	955	233			23.48	0.97	22.52
Pusauli Bypass	-333	-11	118	341	0.60	2.43	-1.82
MZP- GKP (D/C)	190	302	448	0	6.88	0.00	6.88
Patna-Balia(D/C)	201	239	481	0	7.54	0.00	7.54
B'Sharif-Balia (D/C)	112	188	360	0	5.09	0.00	5.09
Barh - balia(D/C)	0	253	304	0	1.34	0.00	1.34
Pusauli-Sahupuri	151	85	158	0	2.77	0.00	2.77
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-30	-32	0	48	0.00	0.96	-0.96
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sub Total ER	291	1024			24.22	3.39	20.84
Total IR Exch	1246	1257			47.70	4.35	43.35

V(B). Inter Regional Schedule & Actual Exchanges [Import (+ve)/Export (-ve)] [Corridor wise]

ISGS/LT Schedule (MU)			Bilateral Schedule (MU)		Power Exchange Shdl (MU)		Wheeling (MU)	
ER	Bhutan	Total	Through ER	Through WR	Through ER	Through WR	Through ER	Through WR
24.55	0.16	24.71	-0.72	2.16	0.91	-1.36	1.68	-1.68

Total IR Schedule (MU)			Total IR Actual (MU)			Net IR UI (MU)		
Through ER	Through WR	Total	Through ER	Through WR	Total	Through ER	Through WR	Total
26.58	-3.27	23.31	20.84	22.52	43.35	-5.75	25.79	20.04

VI. Frequency Profile ----- % of Time Frequency ----->

<48.80	<49.0	<49.20	<49.50	<49.7	49.5 - 50.2	49.7 - 50.2	> 50.00	> 50.2
0.00	0.00	0.00	0.00	0.30	88.40	88.10	52.60	11.60

<----- Frequency (Hz) ----->				Average Frequency Hz	Frequency Variation Index	Std. Dev.	Frequency in 15 Min Block	
Maximum		Minimum					MAX (Hz)	MIN (Hz)
Freq	Time	Freq	Time					
50.61	17.04	49.64	18.43	50.02	0.19	0.14	50.47	49.88

VII. Voltage profile

Station	Voltage Level (kV)	Maximum		Minimum		Voltage (in % of Time)			
		Voltage(KV)	Time	Voltage (KV)	Time	<380 kV	<390 kV	>420 kV	>430 kV
Rihand	400	407	04:30	400	18:55	0.0	0.0	0.0	0.0
Gorakhpur	400	429	05:03	12	09:53	0.6	0.6	42.9	0.0
Bareilly	400	426	20:21	406	13:30	0.0	0.0	18.4	0.0
Kanpur	400	417	18:31	398	00:00	0.0	0.0	0.0	0.0
Dadri	400	423	18:04	411	00:00	0.0	0.0	12.6	0.0
Ballabgarh	400	427	18:30	410	00:00	0.0	0.0	23.0	0.0
Bawana	400	426	05:05	411	08:35	0.0	0.0	29.7	0.0
Bassi	400	429	18:31	395	23:41	0.0	0.0	4.5	0.0
Hissar	400	417	05:05	400	08:09	0.0	0.0	0.0	0.0
Moga	400	426	05:04	408	08:11	0.0	0.0	36.1	0.0
Abdullapur	400	430	05:05	273	13:51	0.3	0.3	57.6	0.0
Nalagarh	400	429	05:05	413	08:25	0.0	0.0	66.2	0.0
Kishenpur	400	427	02:19	405	18:55	0.0	0.0	5.0	0.0
Wagoora	400	410	02:20	382	18:52	0.0	19.9	0.0	0.0

VIII. Reservoir Parameters:

Name of Reservoir	Parameters		Present Parameters		Last Year		Last day	
	FRL (m)	MDDL (m)	Level (m)	Energy (MU)	Level (m)	Energy (MU)	Inflow (m³/s)	Usage (m³/s)
Bhakra	513.59	445.62	485.32	593.99	492.36	886.08	270.23	591.02
Pong	426.72	384.05	406.89	397.88	411.58	544.90	112.59	468.13
Tehri	829.79	740.04	780.55	326.88	818.65	982.26	51.85	200.00
Koteshwar	612.50	598.50	609.15	4.21	NA	NA	200.00	185.00
Chamera-I	760.00	748.75	NA	NA	NA	NA	190.58	165.07
Rihand	268.22	252.98	261.03	362.30	255.82	NA	NA	NA
RPS	352.80	343.81	348.08	NA	NA	NA	NA	227.10
Jawahar Sagar	298.70	295.78	297.85	NA	NA	NA	NA	227.27
RSD	527.91	487.91	497.12	NA	504.35	NA	92.31	98.88

* NA: Not Available

IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

XI. Weather Conditions For 08.03.2012 :

1. Normal Weather.

XII. Synchronisation of new generating units :

XIII. Synchronisation of new 220 / 400 / 765 KV lines and energising of bus //substation :

XIV. Tripping of lines in pooling stations :

XV. Complete generation loss in a generating station :

Report for : 08.03.2012

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER