

पावर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड
(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)
उत्तरी क्षेत्रीय भार प्रेषण केंद्र



Power Supply Position in Northern Region for 08.04.2012
Date of Reporting : 09.04.2012

I. Regional Availability/Demand:

Evening Peak (20:00 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
32764	1669	34433	49.80	29356	840	30196	50.06	699.2	32.16

* 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:

UI [OD:(+ve), UD: (-ve)]

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	50.49	9.10		59.59	48.32	47.44	-0.88	107.03	1.80
Haryana	57.71	0.68		58.39	33.69	35.37	1.69	93.76	1.84
Rajasthan	92.87	0.37	6.52	99.76	35.33	44.33	9.00	144.08	0.00
Delhi	30.35			30.35	49.56	38.96	-10.60	69.31	0.05
UP	87.23	7.15	13.20	107.58	87.21	97.19	9.99	204.77	24.38
Uttarakhand		11.32		11.32	10.45	15.14	4.69	26.46	1.79
HP		9.92		9.92	15.47	11.53	-3.95	21.45	0.00
J & K		13.53	0.00	13.53	16.38	15.19	-1.19	28.72	2.30
Chandigarh				0.00	4.18	3.62	-0.57	3.62	0.00
Total	318.65	52.07	19.72	390.43	300.59	308.77	8.18	699.20	32.16

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

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

UI/OA/PX [OD/Import: (+ve), UD/Export: (-ve)]

State	Evening Peak (20:00 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	STOA/PX transaction	
Punjab	4685	450	-103	-94	4304	0	-372	-94	-2.24	
Haryana	3988	234	12	74	3636	0	-30	74	1.79	
Rajasthan	6267	0	93	-290	6074	0	522	-290	-6.96	
Delhi	3290	0	-462	202	2605	0	-665	202	4.84	
UP	10940	615	696	265	9574	840	1878	265	6.36	
Uttarakhand	1042	220	-30	-3	1140	0	369	-3	-0.08	
HP	925	0	-170	-436	814	0	-27	-42	-3.14	
J&K	1441	150	-64	-358	1081	0	62	-358	-8.60	
Chandigarh	186	0	-35	0	128	0	-4	0	0.00	
Total	32764	1669	-63	-640	29356	840	1733	-245	-8.03	

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

III. Regional Entities :

UI [OG:(+ve), UG: (-ve)]

A. NTPC	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
Rihand I STPS	1000	839	985	986	19.99	833	19.82	0.17	
Rihand II STPS	1000	975	1042	1048	23.38	974	23.09	0.29	
Dadri I STPS	840	803	873	872	16.29	679	16.02	0.27	
Dadri II STPS	980	470	500	409	10.94	456	11.20	-0.26	
Unchahar I TPS	440	404	428	438	9.18	383	9.26	-0.07	
Unchahar II TPS	440	200	219	221	4.67	194	4.65	0.01	
Unchahar III TPS	210	199	219	221	4.52	188	4.50	0.02	
ISTPP (Jhajhar)	1000	249	335	0	6.85	285	6.57	0.28	
Dadri GPS	830	795	695	788	15.11	630	15.11	0.00	
Anta GPS	419	390	341	359	7.50	313	7.37	0.14	
Auraiya GPS	663	612	303	314	6.90	287	6.78	0.12	
Sub Total (A)	9822	7396	7534	7250	160.76	6698	159.41	1.35	
B. NPC	NAPS	440	264	302	307	6.90	287	6.34	0.56
RAPS- B	440	412	454	458	9.99	416	9.89	0.11	
RAPS- C	440	416	466	475	10.07	420	9.98	0.08	
Sub Total (B)	1320	1092	1222	1240	26.96	1123	26.21	0.75	
C. NHPC	Chamera I HPS	540	534	540	0	7.97	332	7.85	0.12
Chamera II HPS	300	297	239	0	3.83	160	3.93	-0.10	
Bairasuil HPS	180	179	179	150	3.66	152	3.69	-0.04	
Salal-HPS	690	393	480	300	9.16	382	8.86	0.30	
Tanakpur-HPS	94	29	35	29	0.70	29	0.74	-0.04	
Uri-HPS	480	480	480	480	11.60	483	11.58	0.02	
Dhauliganga-HPS	280	277	284	0	1.30	54	1.43	-0.13	
Dulhasti-HPS	390	388	410	0	6.70	279	6.61	0.09	
Sewa-II HPS	120	119	121	120	2.72	113	2.89	-0.18	
Sub Total (C)	3074	2696	2768	1079	47.64	1985	47.59	0.05	
D.NJPC	Nathpa Jhakri	1500	1600	1623	0	14.69	612	14.30	0.39
Sub Total (D)	1500	1600	1623	0	14.69	612	14.30	0.39	
E. THDC	Tehri HPS	1000	530	538	0	6.52	272	6.50	0.02
Koteshwar HPS	300	300	302	0	2.84	118	2.80	0.04	
Sub Total (E)	1300	830	840	0	9.36	390	9.30	0.06	
F. BBMB	Bhakra HPS	1480	669	1058	408	16.52	688	16.06	0.46
Dehar HPS	990	288	495	330	7.58	316	6.91	0.68	
Pong HPS	396	37	185	0	0.99	41	0.90	0.09	
Sub Total (F)	2866	994	1738	738	25.09	1045	23.86	1.23	
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	80	0	1.09	45	1.05	0.04
KWHEP HPS(IPP)	1000	0	880	265	9.06	377	8.98	0.08	
Malana Stg-II HPS	100	0	0	0	0.00	0	0.00	0.00	
Shree Cement TPS	300	0	163	129	3.68	153	3.61	0.07	
Sub Total (G)	1592	0	1123	394	13.82	576	13.64	0.18	
H. Total Regional Entities (A-G)	21475	14609	16848	10701	298.32	12430	294.30	4.02	

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	1250	1250	27.60	1150	
	Guru Nanak Dev TPS(Bhatinda)	440	105	90	2.03	84	
	Guru Hargobind Singh TPS(L.mbt)	920	966	956	20.87	870	
	Thermal (Total)	2620	2321	2296	50.49	2104	
	Total Hydro	1148	421	354	9.10	379	
	Total Punjab	3768	2742	2650	59.59	2483	
Haryana	Panipat TPS	1360	996	1015	24.24	1010	
	DCRTPP (Yamuna nagar)	600	0	0	0.00	0	
	Faridabad GPS (NTPC)	432	379	388	9.06	378	
	RGTPP (kheldar) (IPP)	1200	753	1095	24.40	1017	
	Magnum Diesel (IPP)	25	0	0	0.00	0	
	Jhajjar(CLP)	660	0	0	0.00	0	
	Thermal (Total)	4277	2128	2498	57.71	2404	
	Total Hydro	62	12	17	0.68	28	
	Total Haryana	4339	2140	2515	58.39	2433	
Rajasthan	kota TPS	1240	1126	1169	27.12	1130	
	suratgarh TPS	1500	1293	1391	30.59	1274	
	Chabra TPS	500	203	223	5.13	214	
	Dholpur GPS	330	236	242	5.73	239	
	Ramgarh GPS	113	21	59	0.77	32	
	RAPS A (NPC)	300	180	182	4.37	182	
	Barsingsar (NLC)	250	202	185	4.75	198	
	Giral LTPS (IPP)	250	135	89	3.06	128	
	Rajwest LTPS (IPP)	540	465	446	11.35	473	
	VSLP LTPS (IPP)	135	0	0	0.00	0	
	Thermal (Total)	5158	3861	3986	92.87	3870	
	Total Hydro	550	23	0	0.37	15	
	Wind power	1294	268	336	5.40	225	
	Biomass	71	47	47	1.12	47	
	Solar	50	0	0	0.00	0	
	Renewable/Others (Total)	1365	315	383	6.52	272	
	Total Rajasthan	7073	4199	4369	99.76	4157	
	UP	Anpara TPS	1630	1270	1267	30.20	1258
		Obra TPS	1442	464	329	10.10	421
Paricha TPS		640	383	400	9.40	392	
Panki TPS		210	153	162	3.80	158	
Harduaganj TPS		415	32	32	0.80	33	
Tanda TPS (NTPC)		440	287	295	7.17	299	
Roza TPS (IPP)		900	824	716	18.18	757	
Anpara-C (IPP)		1200	0	261	2.64	110	
Bajaj Energy Pvt.Ltd(IPP) TPS		180	266	231	4.94	206	
Thermal (Total)		7057	3679	3693	87.23	3635	
Vishnuparyag HPS (IPP)		400	128	118	4.28	179	
Other Hydro		527	261	0	2.86	119	
Cogeneration		951	550	550	13.20	550	
Total UP		8935	4618	4361	107.58	4304	
Uttarakhand		Total Hydro	1303	507	444	11.32	472
	Total Uttarakhand	1303	507	444	11.32	472	
Delhi	Rajghat TPS	135	100	101	2.42	101	
	Delhi Gas Turbine	282	89	115	2.54	106	
	Pragati Gas Turbine	330	288	295	7.01	292	
	Rithala GPS	108	33	33	0.72	30	
	Bawana GPS	440	387	69	6.61	276	
	Badarpur TPS (NTPC)	705	490	495	11.04	460	
	Thermal (Total)	2000	1387	1327	30.35	1264	
	Total Delhi	2000	1387	1327	30.35	1264	
HP	Baspa HPS (IPP)	330	88	49	1.43	60	
	Malana HPS (IPP)	101	67	0	0.56	23	
	Other Hydro	571	314	342	7.93	330	
	Total HP	1002	469	391	10	413	
J & K	Baglihar HPS (IPP)	450	440	436	10.52	438	
	Other Hydro	323	120	128	3.01	125	
	Gas/Diesel/Others	183	0	0	0.00	0	
	Total J & K	956	560	564	13.53	564	
Total State Control Area Generation		29376	16622	16621	390.43	16090	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			1523	3190	35.28	1470	
Total Regional Availability(Gross)		50851	34993	30512	724.03	29990	

IV. Total Hydro Generation:

Regional Entities Hydro	10033	7929	2082	106.92	4455
State Control Area Hydro	5365	2253	1770	47.78	1991
Total Regional Hydro	15397	10182	3852	154.70	6446

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

Element	Peak(20:00 Hrs)	Off Peak(03:00 Hrs)	Maximum Interchange (MW)		Energy (MU)		Net Energy MU
	MW	MW	Import	Export	Import	Export	
Vindhychal B/B	-400	-100	0	400	0.00	4.97	-4.97
Gwalior-Agra (D/C)	656	949	998	0	14.04	0.00	14.04
Zerda-Kankroli	-135	-115	0	355	0.00	5.05	-5.05
Zerda-Bhinmal	-125	-103	68	420	0.00	4.43	-4.43
Malanpur-Auraiya	-36	1	1	124	0.00	0.30	-0.30
Badod-Kota/Morak	-9	-15	0	44	0.00	0.45	-0.45
Sub Total WR	-49	617			14.04	15.19	-1.15
Pusauli Bypass	-39	175	236	195	1.31	1.27	0.04
MZP- GKP (D/C)	592	820	890	0	13.40	0.00	13.40
Patna-Balia(D/C)	380	507	507	0	6.76	0.00	6.76
B'Sharif-Balia (D/C)	438	541	606	0	8.11	0.00	8.11
Barh - balia(D/C)	0	343	414	0	4.11	0.00	4.11
Pusauli-Sahupuri	179	160	182	0	3.68	0.00	3.68
K'nasa-Sahupuri	64	65	250	0	1.30	0.00	1.30
Son Ngr-Rihand	-42	-38	0	48	0.00	0.96	-0.96
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sub Total ER	1572	2573			38.67	2.23	36.43
Total IR Exch	1523	3190			52.71	17.43	35.28

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
26.88	0.35	27.23	-11.19	3.16	4.09	1.95	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
21.81	-1.46	20.34	36.43	-1.15	35.28	14.63	0.31	14.94

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	1.70	9.30	93.70	86.10	34.50	4.60

<----- 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					
50.51	17.04	49.25	19.12	49.93	0.34	0.17	50.40	49.61

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	415	07:01	401	18:53	0.0	0.0	0.0	0.0
Gorakhpur	400	438	07:05	78	19:50	0.1	0.1	67.8	13.7
Bareilly	400	427	07:02	398	21:23	0.0	0.0	26.4	0.0
Kanpur	400	423	07:01	394	19:11	0.0	0.0	0.7	0.0
Dadri	400	423	07:03	412	00:01	0.0	0.0	9.3	0.0
Ballabgarh	400	427	07:03	403	19:11	0.0	0.0	27.2	0.0
Bawana	400	424	04:02	402	19:11	0.0	0.0	23.0	0.0
Bassi	400	425	04:02	401	19:12	0.0	0.0	16.7	0.0
Hissar	400	414	04:02	394	19:10	0.0	0.0	0.0	0.0
Moga	400	426	04:02	406	19:11	0.0	0.0	11.3	0.0
Abdullapur	400	427	03:08	402	19:11	0.0	0.0	14.6	0.0
Nalagarh	400	429	04:02	407	19:10	0.0	0.0	22.8	0.0
Kishenpur	400	422	04:03	398	19:48	0.0	0.0	1.3	0.0
Wagoora	400	410	03:56	382	20:12	0.0	13.8	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 (m ³ /s)	Usage (m ³ /s)
Bhakra	513.59	445.62	474.98	350.94	484.66	577.33	326.24	542.15
Pong	426.72	384.05	402.95	288.96	410.13	504.32	50.94	66.71
Tehri	829.79	740.04	765.40	163.15	818.65	982.26	76.43	196.00
Koteshwar	612.50	598.50	609.80	4.44	NA	NA	196.00	188.00
Chamera-I	760.00	748.75	NA	NA	NA	NA	194.70	214.93
Rihand	268.22	252.98	259.51	278.10	255.18	84.40	NA	NA
RPS	352.80	343.81	NA	NA	NA	NA	NA	NA
Jawahar Sagar	298.70	295.78	NA	NA	NA	NA	NA	NA
RSD	527.91	487.91	496.60	NA	505.07	NA	292.51	302.74

* NA: Not Available

IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

XI. Weather Conditions For 08.04.2012 :

1. Normal

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 : 08.04.2012

पारी प्रभासी अभियंता / SHIFT CHARGE ENGINEER