

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 09.06.2012
Date of Reporting : 10.06.2012

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
33930	3637	37567	49.82	33929	3172	37101	49.51	807.9	92.27

* 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	47.13	18.06		65.19	58.88	65.04	6.15	130.22	15.68
Haryana	46.96	0.67		47.63	55.74	62.32	6.58	109.95	16.48
Rajasthan	75.17	0.13	24.69	99.99	37.43	44.40	6.96	144.38	3.51
Delhi	23.85			23.85	80.45	72.31	-8.14	96.16	0.25
UP	94.48	12.50	4.80	111.78	87.30	125.94	38.65	237.72	47.74
Uttarakhand		13.75		13.75	11.73	16.02	4.29	29.77	4.50
HP		12.27		12.27	5.93	10.93	5.00	23.20	1.16
J & K		15.00	0.00	15.00	11.88	15.96	4.08	30.96	2.95
Chandigarh				0.00	5.62	5.48	-0.15	5.48	0.00
Total	287.59	72.38	29.49	389.46	354.96	418.39	63.42	807.85	92.27

* 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 (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	5661	496	290	330	4869	333	-504	330	9.72	
Haryana	4873	808	343	603	4359	1007	25	603	14.48	
Rajasthan	6355	52	516	-213	6137	60	732	-213	-4.76	
Delhi	4037	0	-220	591	3854	0	-646	491	15.16	
UP	9329	1897	1113	0	11208	1647	2650	0	1.20	
Uttarakhand	1365	230	196	50	1367	0	262	50	1.21	
HP	842	4	53	-967	853	25	140	-943	-23.79	
J&K	1238	150	0	-570	1087	100	-64	-570	-13.91	
Chandigarh	230	0	-29	40	195	0	-18	20	1.20	
Total	33930	3637	2262	-135	33929	3172	2577	-230	0.51	

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

III. Regional Entities :

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
		Singrauli STPS	2000	1730	1857	1872	41.85	1744	41.52
	Rihand I STPS	1000	898	989	986	21.94	914	21.55	0.38
	Rihand II STPS	1000	471	518	519	11.26	469	11.30	-0.04
	Rihand III STPS	500		0	0	0.00	0		0.00
	Dadri I STPS	840	798	863	881	19.14	798	19.16	-0.02
	Dadri II STPS	980	937	1006	1023	22.51	938	22.48	0.02
	Unchahar I TPS	420	400	438	438	9.66	403	9.59	0.07
	Unchahar II TPS	420	404	439	441	9.73	406	9.70	0.04
	Unchahar III TPS	210	201	222	219	4.84	202	4.82	0.02
	IJSTPP (Jhajhar)	1000	820	947	973	19.05	794	18.85	0.20
	Dadri GPS	830	749	736	751	17.26	719	17.44	-0.18
	Anta GPS	419	381	380	387	8.96	373	8.81	0.14
	Auraiya GPS	663	442	442	458	10.38	432	10.31	0.06
	Sub Total (A)	10282	8231	8837	8948	196.57	8190	195.54	1.03
B. NPC	NAPS	440	256	291	291	6.11	254	6.14	-0.04
	RAPS- B	440	364	427	41	8.83	368	8.74	0.09
	RAPS- C	440	210	229	218	4.81	200	5.04	-0.23
	Sub Total (B)	1320	830	947	550	19.74	822	19.92	-0.18
C. NHPC	Chamera I HPS	540	534	360	540	6.49	271	6.24	0.25
	Chamera II HPS	300	239	120	301	5.15	215	5.13	0.02
	Chamera III HPS	231		0	0	0.00	0		0.00
	Bairasuil HPS	180	182	507	120	2.44	102	2.32	0.12
	Salal-HPS	690	600	50	656	14.33	597	14.39	-0.06
	Tanakpur-HPS	94	42	50	40	0.98	41	0.94	0.03
	Uri-HPS	480	476	479	479	11.61	484	11.55	0.06
	Dhauliganga-HPS	280	277	282	146	3.09	129	2.99	0.10
	Dulhasti-HPS	390	388	407	416	9.19	383	8.68	0.51
	Sewa-II HPS	120	80	85	84	1.86	77	1.83	0.03
	Sub Total (C)	3305	2817	2340	2782	55.14	2297	54.07	1.06
D.NJPC	Nathpa Jhakri	1500	1600	1564	770	20.62	859	20.18	0.45
	Sub Total (D)	1500	1600	1564	770	20.62	859	20.18	0.45
E. THDC	Tehri HPS	1000	510	511	261	4.10	171	4.00	0.10
	Koteshwar HPS	400	300	296	101	2.39	100	2.20	0.19
	Sub Total (E)	1400	810	807	362	6.49	270	6.20	0.29
F. BBMB	Bhakra HPS	1480	797	1130	666	19.36	807	19.12	0.24
	Dehar HPS	990	402	660	450	9.56	398	9.64	-0.08
	Pong HPS	396	134	238	60	3.32	138	3.22	0.10
	Sub Total (F)	2866	1332	2028	1176	32.24	1343	31.98	0.26
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	129	0	1.58	66	1.42	0.16
	KWHEP HPS(IPP)	1000	0	550	441	11.55	481	18.48	-6.93
	Malana Stg-II HPS	100	0	35	54	1.06	44	0.00	1.06
	Shree Cement TPS	300	0	0	0	0.00	0	0.00	0.00
	Budhil HPS(IPP)	70		35	35	0.85	36		0.85
	Sub Total (G)	1662	0	749	530	15.04	627	19.90	-4.86
H. Total Regional Entities (A-G)		22336	15621	17272	15118	345.84	14410	347.79	-1.95

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	1050	1049	23.54	981	
	Guru Nanak Dev TPS(Bhatinda)	440	105	107	2.26	94	
	Guru Hargobind Singh TPS(L.mbt)	920	961	959	21.33	889	
	Thermal (Total)	2620	2116	2115	47.13	1964	
	Total Hydro	1148	701	708	18.06	752	
	Total Punjab	3768	2817	2823	65.19	2716	
Haryana	Panipat TPS	1367	1129	1126	27.21	1134	
	DCRTPP (Yamuna nagar)	600	0	0	0.00	0	
	Faridabad GPS (NTPC)	432	368	378	8.95	373	
	RGTPP (khedar) (IPP)	1200	464	457	10.80	450	
	Magnum Diesel (IPP)	25	0	0	0.00	0	
	Jhajjar(CLP)	1320	0	0	0.00	0	
	Thermal (Total)	4944	1961	1961	46.96	1957	
	Total Hydro	62	12	22	0.67	28	
	Total Haryana	5006	1973	1983	47.63	1985	
	Rajasthan	kota TPS	1240	975	924	22.68	945
suratgarh TPS		1500	1117	1118	26.72	1113	
Chabra TPS		500	199	203	4.74	197	
Dholpur GPS		330	167	75	3.14	131	
Ramgarh GPS		111	53	53	1.33	55	
RAPS A (NPC)		300	159	0	3.27	136	
Barsingsar (NLC)		250	208	120	4.32	180	
Giral LTPS		250	126	117	2.90	121	
Rajwest LTPS (IPP)		540	230	345	6.07	253	
VSLP LTPS (IPP)		135	0	0	0.00	0	
Thermal (Total)		5156	3234	2955	75.17	3132	
Total Hydro		550	0	0	0.13	5	
Wind power		1843	1027	774	23.20	967	
Biomass		91	43	43	1.03	43	
Solar		128	0	0	0.34	14	
Renewable/Others (Total)		2062	1070	817	24.69	1029	
Total Rajasthan		7767	4304	3772	99.99	4166	
UP		Anpara TPS	1630	1021	937	21.40	892
		Obra TPS	1382	360	409	8.60	358
		Paricha TPS	890	579	596	11.70	488
	Panki TPS	210	45	120	2.10	88	
	Harduaganj TPS	665	269	256	5.50	229	
	Tanda TPS (NTPC)	440	287	282	7.10	296	
	Roza TPS (IPP)	1200	572	660	14.31	596	
	Anpara-C (IPP)	1200	648	641	15.41	642	
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	350	350	8.36	348	
	Thermal (Total)	8067	4131	4251	94.48	3937	
	Vishnuparyag HPS (IPP)	400	327	327	7.83	326	
	Other Hydro	527	181	0	4.67	195	
	Cogeneration	981	200	200	4.80	200	
	Total UP	9975	4839	4778	111.78	4331	
	Uttarakhand	Total Hydro	1303	633	568	13.75	573
Total Uttarakhand		1303	633	568	13.75	573	
Delhi	Rajghat TPS	135	102	103	2.74	114	
	Delhi Gas Turbine	282	175	145	4.13	172	
	Pragati Gas Turbine	330	273	284	6.92	288	
	Rithala GPS	108	27	30	0.71	30	
	Bawana GPS	677	0	0	0.00	0	
	Badarpur TPS (NTPC)	705	425	455	9.35	390	
	Thermal (Total)	2237	1002	1017	23.85	994	
	Total Delhi	2237	1002	1017	23.85	994	
HP	Baspa HPS (IPP)	330	99	149	3.51	146	
	Malana HPS (IPP)	86	45	32	0.88	36	
	Other Hydro	589	329	328	7.88	329	
	Total HP	1005	473	509	12	511	
J & K	Baglihar HPS (IPP)	450	435	477	10.45	435	
	Other Hydro	323	178	197	4.55	189	
	Gas/Diesel/Others	183	0	0	0.00	0	
	Total J & K	956	613	674	15.00	625	
Total State Control Area Generation		32017	16654	16124	389.46	15901	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			1979	3260	73.59	3066	
Total Regional Availability(Gross)		54353	35905	34502	808.89	33377	

IV. Total Hydro Generation:

Regional Entities Hydro	10364	7453	5585	128.68	5362
State Control Area Hydro	5368	2613	2481	64.55	2689
Total Regional Hydro	15731	10066	8066	193.23	8051

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	300	-100	500	100	5.24	0.48	4.76
Gwalior-Agra (D/C)	639	1168	1456	0	25.59	0.00	25.59
Zerda-Kankroli	47	199	208	56	2.52	0.00	2.52
Zerda-Bhinmal	43	219	297	138	2.37	0.00	2.37
Malanpur-Auraiya	26	21	30	50	0.30	0.00	0.30
Badod-Kota/Morak	22	32	80	0	0.80	0.00	0.80
Mundra-Mohindergarh(HVDC)	0	0	0	0	0.00	0.00	0.00
Sub Total WR	1077	1539			36.82	0.48	36.34
Pusauli Bypass	-145	-5	98	188	0.43	1.51	-1.08
MZP- GKP (D/C)	254	360	668	0	10.57	0.00	10.57
Patna-Balia(D/C)	213	312	674	0	9.13	0.00	9.13
B'Sharif-Balia (D/C)	430	391	597	0	10.26	0.00	10.26
Barh - Balia(D/C)	0	375	430	0	5.03	0.00	5.03
Pusauli-Balia	0	0	0	0	0.00	0.00	0.00
Gaya-Fatehpur (765 Kv)	0	92	182	0	0.92	0.00	0.92
Pusauli-Sahupuri	144	165	170	0	3.43	0.00	3.43
K'nasa-Sahupuri	48	60	60	0	0.00	0.00	0.00
Son Ngr-Rihand	-42	-29	0	48	0.00	1.01	-1.01
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sub Total ER	902	1721			39.77	2.53	37.24
Total IR Exch	1979	3260			76.59	3.00	73.59

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
26.80	0.59	27.39	-2.38	4.38	-8.38	-1.50	1.08	-1.08
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
17.71	1.89	19.61	37.24	36.34	73.59	19.53	34.45	53.98

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
0.01	1.30	4.40	27.20	63.00	72.30	36.50	3.40	0.50
<----- Frequency (Hz) ----->				Average Frequency	Frequency Variation Index	Std. Dev.	Frequency in 15 Min Block	
Maximum		Minimum					MAX	MIN
Freq	Time	Freq	Time	Hz			(Hz)	(Hz)
50.27	18.06	48.79	0.05	49.62	1.96	0.23	50.15	49.09

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	412	06:01	398	08:49	0.0	0.0	0.0	0.0
Gorakhpur	400	426	19:36	404	03:23	0.0	0.0	12.6	0.0
Bareilly	400	418	13:34	390	03:13	0.0	0.0	0.0	0.0
Kanpur	400	412	13:19	391	08:22	0.0	0.0	0.0	0.0
Dadri	400	412	19:31	393	08:22	0.0	0.0	0.0	0.0
Ballabgarh	400	415	19:30	394	08:21	0.0	0.0	0.0	0.0
Bawana	400	413	06:02	395	08:22	0.0	0.0	0.0	0.0
Bassi	400	420	12:05	378	08:23	0.2	4.3	0.0	0.0
Hissar	400	412	13:21	384	08:22	0.0	1.9	0.0	0.0
Moga	400	416	06:01	398	08:26	0.0	0.0	0.0	0.0
Abdullapur	400	416	18:08	400	17:25	0.1	0.1	0.0	0.0
Nalagarh	400	418	06:02	399	08:50	0.0	0.0	0.0	0.0
Kishenpur	400	415	17:20	403	00:03	0.0	0.0	0.0	0.0
Wagoora	400	408	16:52	388	20:46	0.0	0.3	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	468.75	248.16	479.26	441.00	447.63	704.07
Pong	426.72	384.05	398.78	191.43	411.63	544.90	57.74	236.90
Tehri	829.79	740.04	740.65	4.00	818.65	982.26	139.20	147.00
Koteswar	612.50	598.50	NA	NA	NA	NA	NA	NA
Chamera-I	760.00	748.75	NA	NA	NA	NA	204.88	175.85
Rihand	268.22	252.98	255.67	96.70	254.08	40.90	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	501.29	NA	512.14	NA	179.08	363.76

* NA: Not Available
IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

XI. Weather Conditions For 09.06.2012 :
1. Hot weather

XII. Synchronisation of new generating units :
0.00

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 : 09.06.2012

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER