

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 08.06.2012
Date of Reporting : 09.06.2012

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
33282	4329	37611	49.69	33345	2988	36333	49.81	794.8	101.15

* 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	48.22	17.70		65.92	60.90	64.09	3.19	130.00	11.01
Haryana	48.64	0.75		49.39	57.97	64.42	6.45	113.81	18.56
Rajasthan	72.88	0.00	6.87	79.75	42.79	54.03	11.24	133.77	13.06
Delhi	22.28			22.28	80.68	74.07	-6.60	96.35	0.05
UP	92.18	12.66	4.80	109.64	95.21	124.71	29.49	234.34	48.87
Uttarakhand		14.79		14.79	11.91	14.86	2.95	29.65	3.87
HP		13.56		13.56	5.22	8.74	3.53	22.30	2.79
J & K		15.00	0.00	15.00	12.74	14.16	1.42	29.16	2.95
Chandigarh				0.00	5.10	5.41	0.32	5.41	0.00
Total	284.19	74.45	11.67	370.32	372.52	424.49	51.97	794.80	101.15

* 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	
Punjab	5560	296	-65	330	5465	340	29	330	9.72
Haryana	4802	898	255	603	4363	597	170	603	14.48
Rajasthan	5759	810	941	-53	5258	664	43	47	-1.28
Delhi	4154	0	-50	591	3633	0	-381	491	15.04
UP	9311	1882	991	0	11450	1197	1729	0	1.20
Uttarakhand	1349	185	138	50	1276	0	80	50	1.21
HP	771	108	135	-967	814	90	123	-943	-23.79
J&K	1338	150	95	-570	887	100	-263	-570	-13.80
Chandigarh	238	0	16	40	199	0	-5	20	1.20
Total	33282	4329	2456	25	33345	2988	1525	29	3.98

* 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	1730	1864	1870	42.77	1782	41.52	1.25
	Rihand I STPS	1000	898	955	982	21.65	902	21.55	0.10
	Rihand II STPS	1000	682	517	1043	16.33	681	16.37	-0.04
	Rihand III STPS	500		0	0	0.00	0		0.00
	Dadri I STPS	840	798	862	875	19.26	802	19.16	0.10
	Dadri II STPS	980	963	995	1020	23.20	967	23.12	0.08
	Unchahar I TPS	420	402	441	432	9.71	405	9.65	0.06
	Unchahar II TPS	420	404	439	441	9.75	406	9.70	0.06
	Unchahar III TPS	210	201	217	221	4.85	202	4.82	0.03
	IJSTPP (Jhajjar)	1000	853	967	671	18.88	787	18.57	0.31
	Dadri GPS	830	791	737	580	15.18	633	16.22	-1.03
	Anta GPS	419	381	381	394	8.45	352	8.09	0.35
	Auraiya GPS	663	454	441	454	10.20	425	9.87	0.33
	Sub Total (A)	10282	8558	8816	8983	200.23	8343	198.63	1.59
B. NPC	NAPS	440	256	295	296	6.16	257	6.14	0.01
	RAPS- B	440	367	408	413	8.76	365	8.81	-0.05
	RAPS- C	440	210	230	205	4.74	198	5.04	-0.30
	Sub Total (B)	1320	833	933	914	19.66	819	19.99	-0.33
C. NHPC	Chamera I HPS	540	534	540	540	7.51	313	7.29	0.21
	Chamera II HPS	300	275	298	302	6.33	264	6.04	0.29
	Chamera III HPS	231		0	0	0.00	0		0.00
	Bairasuil HPS	180	182	182	120	2.72	113	2.68	0.04
	Salal-HPS	690	663	662	664	15.79	658	15.91	-0.12
	Tanakpur-HPS	94	40	47	39	1.02	42	1.00	0.02
	Uri-HPS	480	476	479	479	11.62	484	11.61	0.02
	Dhauliganga-HPS	280	277	278	139	3.05	127	2.85	0.19
	Dulhasti-HPS	390	388	417	411	9.62	401	9.20	0.42
	Sewa-II HPS	120	80	85	85	1.88	78	1.74	0.13
	Sub Total (C)	3305	2914	2988	2779	59.53	2481	58.33	1.20
	D.NJPC	Nathpa Jhakri	1500	1600	1626	1016	22.51	938	22.14
Sub Total (D)		1500	1600	1626	1016	22.51	938	22.14	0.37
E. THDC	Tehri HPS	1000	510	511	511	6.05	252	6.00	0.05
	Koteshwar HPS	400	225	296	101	2.39	100	2.35	0.04
	Sub Total (E)	1400	735	807	612	8.44	352	8.35	0.09
F. BBMB	Bhakra HPS	1480	794	1139	670	19.54	814	19.07	0.47
	Dehar HPS	990	431	660	320	10.28	428	10.35	-0.07
	Pong HPS	396	137	238	120	3.38	141	3.30	0.08
	Sub Total (F)	2866	1363	2037	1110	33.20	1383	32.72	0.48
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	110	105	2.17	90	2.74	-0.57
	KWHEP HPS(IPP)	1000	0	480	550	12.66	528	19.02	-6.35
	Malana Stg-II HPS	100	0	46	40	1.01	42	0.00	1.01
	Shree Cement TPS	300	0	0	0	0.00	0	0.00	0.00
	Budhil HPS(IPP)	70		35	35	0.83	35		0.83
	Sub Total (G)	1662	0	671	730	16.67	695	21.75	-5.08
H. Total Regional Entities (A-G)	22336	16003	17878	16144	360.24	15010	361.91	-1.67	

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	1045	1050	23.71	988	
	Guru Nanak Dev TPS(Bhatinda)	440	107	213	3.18	132	
	Guru Hargobind Singh TPS(L.mbt)	920	962	965	21.34	889	
	Thermal (Total)	2620	2114	2228	48.22	2009	
	Total Hydro	1148	726	770	17.70	737	
	Total Punjab	3768	2840	2998	65.92	2746	
Haryana	Panipat TPS	1367	1122	891	26.35	1098	
	DCRTPP (Yamuna nagar)	600	0	0	0.00	0	
	Faridabad GPS (NTPC)	432	369	382	8.98	374	
	RGTPP (khedar) (IPP)	1200	495	539	13.31	555	
	Magnum Diesel (IPP)	25	0	0	0.00	0	
	Jhajjar(CLP)	1320	0	0	0.00	0	
	Thermal (Total)	4944	1986	1812	48.64	2027	
	Total Hydro	62	12	22	0.75	31	
	Total Haryana	5006	1998	1834	49.39	2058	
	Rajasthan	kota TPS	1240	769	925	22.56	940
suratgarh TPS		1500	1137	1149	27.19	1133	
Chabra TPS		500	200	202	4.77	199	
Dholpur GPS		330	150	166	3.44	144	
Ramgarh GPS		111	52	51	1.30	54	
RAPS A (NPC)		300	0	0	0.00	0	
Barsingsar (NLC)		250	86	113	2.37	99	
Giral LTPS		250	122	143	2.60	108	
Rajwest LTPS (IPP)		540	345	345	8.66	361	
VSLP LTPS (IPP)		135	0	0	0.00	0	
Thermal (Total)		5156	2861	3094	72.88	3036	
Total Hydro		550	0	0	0.00	0	
Wind power		1843	274	195	5.80	242	
Biomass		91	46	46	0.73	31	
Solar		128	0	0	0.34	14	
Renewable/Others (Total)		2062	320	241	6.87	286	
Total Rajasthan		7767	3181	3335	79.75	3323	
UP		Anpara TPS	1630	1091	1126	22.90	954
		Obra TPS	1382	380	352	8.10	338
		Paricha TPS	890	582	385	11.90	496
	Panki TPS	210	50	135	1.70	71	
	Harduaganj TPS	665	262	194	5.00	208	
	Tanda TPS (NTPC)	440	289	284	7.13	297	
	Roza TPS (IPP)	1200	662	638	13.70	571	
	Anpara-C (IPP)	1200	603	604	14.40	600	
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	323	311	7.35	306	
	Thermal (Total)	8067	4242	4029	92.18	3841	
	Vishnuparyag HPS (IPP)	400	317	347	7.86	327	
	Other Hydro	527	194	0	4.80	200	
	Cogeneration	981	200	200	4.80	200	
	Total UP	9975	4953	4576	109.64	4241	
	Uttarakhand	Total Hydro	1303	676	612	14.79	616
Total Uttarakhand		1303	676	612	14.79	616	
Delhi	Rajghat TPS	135	101	101	2.73	114	
	Delhi Gas Turbine	282	109	108	3.14	131	
	Pragati Gas Turbine	330	279	139	6.29	262	
	Rithala GPS	108	31	30	0.70	29	
	Bawana GPS	677	0	0	0.00	0	
	Badarpur TPS (NTPC)	705	440	445	9.42	393	
	Thermal (Total)	2237	960	823	22.28	928	
	Total Delhi	2237	960	823	22.28	928	
HP	Baspa HPS (IPP)	330	55	137	3.84	160	
	Malana HPS (IPP)	86	37	50	0.89	37	
	Other Hydro	589	333	381	8.83	368	
	Total HP	1005	425	568	14	565	
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	15646	15420	370.32	15103	
J. Net Inter Regional Exchange [[Import (+ve)]/Export (-ve)]			1757	2576	58.83	2451	
Total Regional Availability(Gross)		54353	35281	34140	789.39	32564	

IV. Total Hydro Generation:

Regional Entities Hydro	10364	8094	6212	139.53	5814
State Control Area Hydro	5368	2646	2646	66.59	2775
Total Regional Hydro	15731	10740	8858	206.12	8588

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	-100	-100	0	250	0.00	2.96	-2.96
Gwalior-Agra (D/C)	577	825	1342	0	20.82	0.00	20.82
Zerda-Kankroli	118	-2	137	94	0.82	0.00	0.82
Zerda-Bhinmal	154	40	211	97	1.73	0.00	1.73
Malanpur-Auraiya	-115	-21	0	115	0.00	0.67	-0.67
Badod-Kota/Morak	47	32	93	14	1.27	0.00	1.27
Mundra-Mohindergarh(HVDC)	0	0	0	0	0.00	0.00	0.00
Sub Total WR	681	774			24.64	3.63	21.01
Pusauli Bypass	-160	-10	89	160	0.35	1.27	-0.92
MZP- GKP (D/C)	330	524	672	0	11.66	0.00	11.66
Patna-Balia(D/C)	167	239	257	0	5.67	0.00	5.67
B'Sharif-Balia (D/C)	317	430	613	0	10.49	0.00	10.49
Barh - Balia(D/C)	200	275	291	0	6.22	0.00	6.22
Pusauli-Balia	0	0	0	0	0.00	0.00	0.00
Gaya-Fatehpur (765 Kv)	58	148	227	0	2.27	0.00	2.27
Pusauli-Sahupuri	158	165	168	0	3.44	0.00	3.44
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	1076	1802			40.10	2.28	37.82
Total IR Exch	1757	2576			64.74	5.91	58.83

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
26.84	0.66	27.50	-3.68	8.09	-7.48	-0.72	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
17.41	6.26	23.67	37.82	21.01	58.83	20.41	14.76	35.16

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	1.60	4.90	39.10	78.30	60.80	21.60	0.80	0.10

<----- 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)		
50.22	12.02	48.84	23.10	49.55	2.50	0.21	49.99	49.14

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	413	17:59	401	02:05	0.0	0.0	0.0	0.0
Gorakhpur	400	427	15:55	398	02:23	0.0	0.0	31.4	0.0
Bareilly	400	418	12:05	396	22:06	0.0	0.0	0.0	0.0
Kanpur	400	415	12:02	394	02:19	0.0	0.0	0.0	0.0
Dadri	400	412	18:00	398	08:10	0.0	0.0	0.0	0.0
Ballabgarh	400	416	18:01	399	10:11	0.0	0.0	0.0	0.0
Bawana	400	414	18:01	400	10:34	0.0	0.0	0.0	0.0
Bassi	400	425	12:01	390	05:26	0.0	0.0	1.7	0.0
Hissar	400	411	19:01	392	08:10	0.0	0.0	0.0	0.0
Moga	400	416	17:33	402	08:10	0.0	0.0	0.0	0.0
Abdullapur	400	418	18:01	400	04:55	0.2	0.2	0.0	0.0
Nalagarh	400	416	06:03	400	10:34	0.0	0.0	0.0	0.0
Kishenpur	400	413	06:02	400	22:03	0.0	0.0	0.0	0.0
Wagooora	400	408	00:22	386	22:02	0.0	4.8	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	469.13	252.64	479.29	441.00	482.21	706.65
Pong	426.72	384.05	398.91	197.21	411.63	544.90	48.89	241.23
Tehri	829.79	740.04	740.86	NA	818.65	982.26	143.41	216.00
Koteswar	612.50	598.50	609.00	4.21	NA	NA	216.00	158.00
Chamera-I	760.00	748.75	NA	NA	NA	NA	235.10	203.43
Rihand	268.22	252.98	255.57	99.10	254.08	40.90	NA	NA
RPS	352.80	343.81	349.98	NA	NA	NA	NA	NA
Jawahar Sagar	298.70	295.78	297.91	NA	NA	NA	NA	NA
RSD	527.91	487.91	501.75	NA	502.03	NA	279.63	347.48

* NA: Not Available
IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

XI. Weather Conditions For 08.06.2012 :
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 : 08.06.2012

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER