

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरसिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 07.06.2012
Date of Reporting : 08.06.2012

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
34236	2353	36589	49.87	34663	1838	36501	49.76	815.9	70.71

* 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	50.45	17.75		68.20	64.66	68.67	4.01	136.87	4.34
Haryana	42.96	0.73		43.69	62.65	73.15	10.50	116.84	10.89
Rajasthan	78.18	0.00	5.96	84.14	50.25	56.28	6.03	140.42	4.09
Delhi	21.91			21.91	80.63	72.07	-8.57	93.98	0.01
UP	95.37	13.46	4.80	113.63	98.44	127.53	29.09	241.16	44.29
Uttarakhand		15.38		15.38	12.95	16.63	3.69	32.01	2.41
HP		14.52		14.52	5.62	7.99	2.37	22.51	0.00
J & K		15.00	0.00	15.00	15.24	11.48	-3.76	26.48	2.95
Chandigarh				0.00	6.24	5.61	-0.64	5.61	1.74
Total	288.86	76.85	10.76	376.47	396.69	439.42	42.72	815.88	70.71

* 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	STOA/PX transaction
Punjab	5984	150	164	330	5521	0	-79	330	9.72	
Haryana	5404	355	829	603	4330	434	-17	603	14.48	
Rajasthan	6283	0	1079	172	6036	0	-352	-228	-4.52	
Delhi	4051	0	-230	591	3556	0	-568	491	15.04	
UP	9005	1550	-8	0	11767	1304	2599	0	1.20	
Uttarakhand	1341	15	115	50	1355	0	98	50	1.21	
HP	886	133	61	-1067	902	0	-23	-943	-24.04	
J&K	1042	150	-328	-570	980	100	-300	-570	-13.91	
Chandigarh	240	0	-35	40	216	0	-18	20	1.20	
Total	34236	2353	1647	150	34663	1838	1340	-245	0.38	

* 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 [OG:(+ve), UG: (-ve)]		
									Net MU	Net MU	
A. NTPC	Singrauli STPS	2000	1730	1871	1873	42.42	1767	41.52	0.90		
	Rihand I STPS	1000	888	985	981	21.45	894	21.31	0.14		
	Rihand II STPS	1000	965	1028	1043	23.36	973	23.16	0.20		
	Rihand III STPS	500		0	0	0.00	0		0.00		
	Dadri I STPS	840	798	860	860	19.13	797	19.16	-0.02		
	Dadri II STPS	980	958	1023	1012	23.12	963	23.00	0.12		
	Unchahar I TPS	420	402	439	441	9.06	377	9.65	-0.59		
	Unchahar II TPS	420	404	441	443	9.16	381	9.70	-0.54		
	Unchahar III TPS	210	201	219	219	4.64	193	4.82	-0.18		
	ISTPP (Jhajjar)	1000	836	740	709	15.74	656	16.89	-1.15		
	Dadri GPS	830	793	555	680	13.79	574	14.60	-0.82		
	Anta GPS	419	381	256	255	6.14	256	6.54	-0.41		
	Auraiya GPS	663	453	382	451	9.52	397	8.64	0.89		
	Sub Total (A)		10282	8809	8799	8967	197.52	8230	198.99	-1.46	
B. NPC	NAPS	440	256	291	302	6.17	257	6.14	0.03		
	RAPS- B	440	367	408	406	8.75	365	8.81	-0.06		
	RAPS- C	440	210	230	205	4.74	198	5.04	-0.30		
	Sub Total (B)		1320	833	929	913	19.66	819	19.99	-0.33	
C. NHPC	Chamera I HPS	540	510	540	540	11.43	476	11.61	-0.19		
	Chamera II HPS	300	300	203	301	6.63	276	7.07	-0.44		
	Chamera III HPS	231		0	0	0.00	0		0.00		
	Bairasuil HPS	180	182	182	120	2.78	116	2.51	0.27		
	Salal-HPS	690	662	664	664	15.86	661	15.89	-0.03		
	Tanakpur-HPS	94	44	47	40	1.11	46	1.15	-0.04		
	Uri-HPS	480	477	479	478	11.59	483	11.61	-0.02		
	Dhauliganga-HPS	280	277	278	74	3.09	129	2.95	0.13		
	Dulhasti-HPS	390	388	412	412	9.31	388	9.16	0.15		
	Sewa-II HPS	120	80	85	85	1.94	81	1.93	0.01		
	Sub Total (C)		3305	2919	2890	2714	63.73	2655	63.89	-0.16	
	D.NJPC	Nathpa Jhakri	1500	1600	1638	1287	26.66	1111	28.46	-1.80	
Sub Total (D)			1500	1600	1638	1287	26.66	1111	28.46	-1.80	
E. THDC	Tehri HPS	1000	510	511	510	8.02	334	8.00	0.02		
	Koteshwar HPS	400	300	300	272	4.98	207	5.00	-0.02		
	Sub Total (E)		1400	810	811	782	13.00	542	13.00	0.00	
F. BBMB	Bhakra HPS	1480	794	1141	669	19.54	814	19.05	0.49		
	Dehar HPS	990	576	660	600	13.98	583	13.83	0.16		
	Pong HPS	396	188	296	180	4.69	195	4.52	0.17		
	Sub Total (F)		2866	1558	2097	1449	38.21	1592	37.39	0.82	
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	104	142	2.56	107	3.22	-0.66		
	KWHEP HPS(IPP)	1000	0	750	780	14.33	597	19.27	-4.94		
	Malana Stg-II HPS	100	0	44	52	1.10	46	0.00	1.10		
	Shree Cement TPS	300	0	0	210	0.80	33	0.38	0.41		
	Budhil HPS(IPP)	70		35	0	0.03	1		0.03		
	Sub Total (G)		1662	0	933	1184	18.81	784	22.88	-4.06	
H. Total Regional Entities (A-G)		22336	16528	18097	17296	377.60	15733	384.60	-7.00		

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	1050	24.47	1020	
	Guru Nanak Dev TPS(Bhatinda)	440	214	212	4.56	190	
	Guru Hargobind Singh TPS(L.mbt)	920	964	969	21.42	892	
	Thermal (Total)	2620	2228	2231	50.45	2102	
	Total Hydro	1148	742	752	17.75	740	
	Total Punjab	3768	2970	2983	68.20	2842	
Haryana	Panipat TPS	1367	884	870	20.88	870	
	DCRTPP (Yamuna nagar)	600	0	0	0.00	0	
	Faridabad GPS (NTPC)	432	378	231	8.47	353	
	RGTPP (khedar) (IPP)	1200	543	549	13.61	567	
	Magnum Diesel (IPP)	25	0	0	0.00	0	
	Jhajjar(CLP)	1320	0	0	0.00	0	
	Thermal (Total)	4944	1805	1650	42.96	1790	
	Total Hydro	62	13	32	0.73	30	
	Total Haryana	5006	1818	1682	43.69	1820	
	Rajasthan	kota TPS	1240	941	969	22.89	954
suratgarh TPS		1500	1360	1353	31.88	1328	
Chabra TPS		500	203	203	4.82	201	
Dholpur GPS		330	93	161	3.11	130	
Ramgarh GPS		111	49	21	0.91	38	
RAPS A (NPC)		300	0	0	0.00	0	
Barsingsar (NLC)		250	111	108	2.61	109	
Giral LTPS		250	143	160	3.29	137	
Rajwest LTPS (IPP)		540	343	345	8.67	361	
VSLP LTPS (IPP)		135	0	0	0.00	0	
Thermal (Total)		5156	3243	3320	78.18	3257	
Total Hydro		550	0	0	0.00	0	
Wind power		1843	49	600	5.12	213	
Biomass		91	21	21	0.50	21	
Solar		128	0	0	0.34	14	
Renewable/Others (Total)		2062	70	621	5.96	248	
Total Rajasthan		7767	3313	3941	84.14	3506	
UP		Anpara TPS	1630	1038	949	23.10	963
		Obra TPS	1382	351	361	8.40	350
		Paricha TPS	890	464	480	10.60	442
	Panki TPS	210	61	117	2.50	104	
	Harduaganj TPS	665	260	171	5.30	221	
	Tanda TPS (NTPC)	440	286	282	7.12	297	
	Roza TPS (IPP)	1200	887	838	19.53	814	
	Anpara-C (IPP)	1200	549	405	11.41	476	
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	311	310	7.40	308	
	Thermal (Total)	8067	4207	3913	95.37	3974	
	Vishnuparyag HPS (IPP)	400	357	377	8.69	362	
	Other Hydro	527	219	0	4.77	199	
	Cogeneration	981	200	200	4.80	200	
	Total UP	9975	4983	4490	113.63	4372	
Uttarakhand	Total Hydro	1303	652	640	15.38	641	
	Total Uttarakhand	1303	652	640	15.38	641	
Delhi	Rajghat TPS	135	101	102	2.10	87	
	Delhi Gas Turbine	282	109	189	3.12	130	
	Pragati Gas Turbine	330	279	286	6.73	281	
	Rithala GPS	108	31	29	0.68	28	
	Bawana GPS	677	0	0	0.00	0	
	Badarpur TPS (NTPC)	705	430	430	9.28	387	
	Thermal (Total)	2237	950	1036	21.91	913	
	Total Delhi	2237	950	1036	21.91	913	
HP	Baspa HPS (IPP)	330	152	126	4.50	187	
	Malana HPS (IPP)	86	55	53	1.11	46	
	Other Hydro	589	391	409	8.91	371	
	Total HP	1005	598	588	15	605	
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	15897	16034	376.47	15324	
J. Net Inter Regional Exchange (Import (+ve)/Export (-ve))			1333	2064	54.62	2276	
Total Regional Availability(Gross)		54353	35327	35394	808.68	33333	

IV. Total Hydro Generation:

Regional Entities Hydro	10364	8334	7206	159.59	6649
State Control Area Hydro	5368	2837	2686	68.16	2840
Total Regional Hydro	15731	11171	9892	227.74	9489

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	-200	0	200	0.00	2.41	-2.41
Gwalior-Agra (D/C)	349	873	1145	0	19.44	0.00	19.44
Zerda-Kankroli	17	-40	74	153	0.00	0.29	-0.29
Zerda-Bhinmal	63	-41	211	170	0.00	0.00	0.41
Malanpur-Auraiya	-111	-106	0	139	0.00	0.85	-0.85
Badod-Kota/Morak	8	-72	105	77	1.72	0.00	1.72
Mundra-Mohindergarh(HVDC)	0	0	0	0	0.00	0.00	0.00
Sub Total WR	226	414			21.57	3.55	18.02
Pusauli Bypass	-146	-19	104	150	0.66	1.00	-0.34
MZP- GKP (D/C)	280	426	616	0	9.80	0.00	9.80
Patna-Balia(D/C)	183	220	323	0	5.54	0.00	5.54
B'Sharif-Balia (D/C)	315	489	584	0	10.43	0.00	10.43
Barh - Balia(D/C)	218	264	305	0	5.91	0.00	5.91
Pusauli-Balia	0	0	0	0	0.00	0.00	0.00
Gaya-Fatehpur (765 Kv)	108	73	217	0	2.74	0.00	2.74
Pusauli-Sahupuri	143	166	162	0	3.52	0.00	3.52
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	1107	1650			38.60	2.01	36.59
Total IR Exch	1333	2064			60.17	5.56	54.62

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
30.54	0.80	31.34	-1.67	4.61	-9.54	0.96	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
21.21	4.63	25.84	36.59	18.02	54.62	15.38	13.39	28.78

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	0.20	1.20	24.50	55.70	74.90	43.70	7.10	0.60

<----- 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)		
50.30	18.03	48.97	0.08	49.66	1.61	0.22	50.20	0.00

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	06:01	398	00:11	0.0	0.0	0.0	0.0
Gorakhpur	400	428	19:55	395	04:00	0.0	0.0	17.0	0.0
Bareilly	400	411	07:03	386	00:07	0.0	0.5	0.0	0.0
Kanpur	400	412	07:30	391	00:07	0.0	0.0	0.0	0.0
Dadri	400	409	06:01	394	00:05	0.0	0.0	0.0	0.0
Ballabgarh	400	414	06:03	397	00:04	0.0	0.0	0.0	0.0
Bawana	400	414	06:03	396	00:07	0.0	0.0	0.0	0.0
Bassi	400	420	22:39	397	00:05	0.0	0.0	0.0	0.0
Hissar	400	407	06:01	392	00:05	0.0	0.0	0.0	0.0
Moga	400	414	06:03	401	00:03	0.0	0.0	0.0	0.0
Abdullapur	400	413	18:52	404	19:28	0.0	0.0	0.0	0.0
Nalagarh	400	415	06:02	400	00:04	0.0	0.0	0.0	0.0
Kishenpur	400	413	18:04	401	00:04	0.0	0.0	0.0	0.0
Wagoora	400	406	02:50	391	22:03	0.0	0.0	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	469.58	262.21	479.68	454.47	720.32	715.59
Pong	426.72	384.05	399.55	209.93	411.60	544.90	81.18	316.24
Tehri	829.79	740.04	743.75	22.00	818.65	982.26	204.33	298.00
Koteswar	612.50	598.50	NA	NA	NA	NA	NA	NA
Chamera-I	760.00	748.75	752.48	NA	NA	NA	293.00	347.53
Rihand	268.22	252.98	256.06	118.70	254.14	43.20	NA	NA
RPS	352.80	343.81	350.02	NA	NA	NA	NA	24.92
Jawahar Sagar	298.70	295.78	297.82	NA	NA	NA	NA	NA
RSD	527.91	487.91	501.56	NA	512.17	NA	329.27	216.62

* NA: Not Available
IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

XI. Weather Conditions For 07.06.2012 :
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 : 07.06.2012

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER