

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पब्लिसिटी की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 09.06.2013
Date of Reporting : 10.06.2013

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
35776	1464	37240	50.01	37991	1154	39145	50.17	894.3	32.64

* 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	42.51	12.40		54.91	107.77	108.55	0.78	163.47	0.00
Haryana	52.74	0.75		53.49	84.30	83.09	-1.21	136.58	0.00
Rajasthan	82.68	0.00	18.82	101.50	62.29	57.03	-5.26	158.53	0.06
Delhi	24.01			24.01	80.35	79.00	-1.35	103.01	0.20
UP	113.56	14.12	5.40	133.08	110.51	108.05	-2.46	241.13	30.68
Uttarakhand		15.30		15.30	15.65	16.82	1.17	32.12	0.00
HP		22.23		22.23	3.80	2.49	-1.30	24.72	0.00
J & K		13.41	0.00	13.41	13.74	15.89	2.15	29.29	1.70
Chandigarh				0.00	5.75	5.43	-0.32	5.43	0.00
Total	315.50	78.20	24.22	417.92	484.16	476.36	-7.80	894.28	32.64

* 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	6869	0	-40	774	6405	0	33	1046	28.19	
Haryana	5502	0	-109	679	5909	0	-54	758	17.22	
Rajasthan	5655	0	-239	470	6791	0	-42	494	11.31	
Delhi	4340	4	-2	476	4394	0	46	186	7.90	
UP	9430	1360	-327	80	10821	1154	-167	1035	11.72	
Uttarakhand	1600	0	147	124	1421	0	59	133	2.78	
HP	849	0	-339	-781	998	0	77	-1092	-22.52	
J&K	1292	100	78	-417	1033	0	-36	-417	-10.00	
Chandigarh	240	0	-12	0	220	0	-18	0	0.00	
Total	35776	1464	-843	1405	37991	1154	-101	2144	46.61	

* 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	1931	1985	2080	43.41	1809	42.79	0.62
	Rihand I STPS	1000	915	782	987	19.53	814	19.86	-0.33
	Rihand II STPS	1000	965	793	1024	20.38	849	20.60	-0.22
	Rihand III STPS	500	-12	0	0	0.00	0	-0.28	0.28
	Dadri I STPS	840	809	663	615	14.60	608	14.74	-0.14
	Dadri II STPS	980	973	727	730	17.91	746	18.18	-0.27
	Unchahar I TPS	420	402	400	312	7.73	322	8.57	-0.84
	Unchahar II TPS	420	201	181	162	3.81	159	3.95	-0.14
	Unchahar III TPS	210	200	170	157	3.69	154	3.77	-0.08
	ISTPP (Jhajihar)	1500	470	350	319	6.80	284	7.55	-0.74
	Dadri GPS	830	790	302	289	6.99	291	7.09	-0.10
	Anta GPS	419	400	205	198	4.81	201	5.04	-0.23
	Auraiya GPS	663	618	148	155	3.47	145	3.52	-0.05
	Sub Total (A)	10782	8662	6706	7028	153.13	6380	155.38	-2.24
B. NPC	NAPS	440	290	329	334	7.00	292	6.96	0.04
	RAPS- B	440	385	427	437	9.31	388	9.24	0.07
	RAPS- C	440	430	460	457	9.83	410	10.32	-0.49
	Sub Total (B)	1320	1105	1216	1228	26.14	1089	26.52	-0.38
C. NHPC	Chamera I HPS	540	540	540	540	13.03	543	12.96	0.07
	Chamera II HPS	300	310	311	303	7.28	303	7.30	-0.02
	Chamera III HPS	231	231	232	232	5.51	230	5.48	0.03
	Bairasuil HPS	180	179	110	120	2.76	115	2.90	-0.14
	Salal-HPS	690	655	660	660	15.18	633	15.72	-0.54
	Tanakpur-HPS	94	83	91	73	2.00	83	2.00	0.00
	Uri-HPS	480	475	471	468	11.26	469	11.21	0.05
	Dhauliganga-HPS	280	280	280	280	6.70	279	6.73	-0.03
	Dulhasti-HPS	390	387	135	135	9.21	384	9.22	-0.02
	Sewa-II HPS	120	119	107	0	1.18	49	1.17	0.01
Sub Total (C)	3305	3259	2937	2811	74.11	3088	74.70	-0.59	
D. NJPC	Natpaa Jhakri	1500	1605	1612	1619	37.89	1579	38.01	-0.12
	Sub Total (D)	1500	1605	1612	1619	37.89	1579	38.01	-0.12
E. THDC	Tehri HPS	1000	540	554	541	10.89	454	11.27	-0.38
	Sub Total (E)	1400	829	851	830	16.64	693	17.07	-0.44
F. BBMB	Bhakra HPS	1480	1175	1257	1099	28.62	1193	28.19	0.43
	Dehar HPS	990	596	825	600	15.03	626	14.31	0.73
	Pong HPS	396	80	180	60	1.71	71	1.91	-0.20
	Sub Total (F)	2866	1850	2262	1759	45.36	1890	44.40	0.96
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	233	233	5.55	231	4.25	1.30
	KWHEP HPS(IPP)	1000	0	1197	1192	27.90	1162	28.51	-0.61
	Malana Stg-II HPS	100	0	111	111	2.62	109	2.38	0.23
	Shree Cement TPS	300	0	256	262	5.61	234	6.14	-0.53
	Budhil HPS(IPP)	70	0	35	34	0.82	34	0.72	0.10
Sub Total (G)	1662	0	1832	1832	42.50	1771	42.00	0.50	
H. Total Regional Entities (A-G)	22836	17311	17416	17107	395.76	16490	398.09	-2.32	

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	1040	850	21.06	877	
	Guru Nanak Dev TPS(Bhatinda)	440	325	195	5.33	222	
	Guru Hargobind Singh TPS(L.mbt)	920	879	541	16.12	672	
	Goindwal(GVK)		0	0	0.00	0	
	Thermal (Total)	2620	2244	1586	42.51	1771	
	Total Hydro	1148	499	445	12.40	517	
	Total Punjab	3768	2743	2031	54.91	2288	
Haryana	Panipat TPS	1367	872	897	21.34	889	
	DCRTPP (Yamuna nagar)	600	261	257	6.06	253	
	Faridabad GPS (NTPC)	432	164	154	3.96	165	
	RGTPP (khedar) (IPP)	1200	446	455	11.42	476	
	Magnum Diesel (IPP)	25	0	0	0.00	0	
	Jhajjar(CLP)	1320	396	394	9.97	415	
	Thermal (Total)	4944	2139	2157	52.74	2198	
	Total Hydro	62	30	29	0.75	31	
		Total Haryana	5006	2169	2186	53.49	2229
	Rajasthan	kota TPS	1240	715	931	19.69	820
suratgarh TPS		1500	952	930	23.38	974	
Chabra TPS		500	190	226	4.82	201	
Dholpur GPS		330	114	112	2.83	118	
Ramgarh GPS		111	44	62	1.48	62	
RAPS A (NPC)		300	179	179	4.35	181	
Barsingar (NLC)		250	168	201	4.28	179	
Giral LTSP		250	90	44	1.91	80	
Rajwest LTSP (IPP)		1080	406	418	8.07	336	
VSLP LTSP (IPP)		135	0	0	0.00	0	
Kalisindh Thermal		600	0	0	0.00	0	
Kawai(Adani)		660	429	460	11.87	495	
Thermal (Total)		6956	3287	3563	82.68	3445	
Total Hydro		550	0	0	0.00	0	
Wind power		2191	574	643	16.61	692	
Biomass		91	16	16	0.38	16	
Solar		201	0	0	1.83	76	
Renewable/Others (Total)		2483	590	659	18.82	784	
		Total Rajasthan	9989	3877	4222	101.50	4229
UP		Anpara TPS	1630	1094	1185	27.90	1163
	Obra TPS	1288	483	485	11.80	492	
	Paricha TPS	1140	566	602	13.20	550	
	Panki TPS	210	63	68	1.50	63	
	Harduaganj TPS	665	364	358	8.40	350	
	Tanda TPS (NTPC)	440	296	295	7.30	304	
	Roza TPS (IPP)	1200	999	999	24.16	1007	
	Anpara-C (IPP)	1200	459	404	10.70	446	
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	403	401	8.59	358	
	Thermal (Total)	8223	4727	4797	113.56	4732	
	Vishnuparyag HPS (IPP)	400	436	436	10.22	426	
	Other Hydro	527	131	184	3.90	162	
	Cogeneration	981	225	225	5.40	225	
		Total UP	10131	5519	5642	133.08	5119
	Uttarakhand	Total Hydro	1303	789	695	15.30	637
Total Uttarakhand		1303	789	695	15.30	637	
Delhi	Rajghat TPS	135	98	95	2.23	93	
	Delhi Gas Turbine	282	74	157	2.22	92	
	Pragati Gas Turbine	330	265	262	6.52	272	
	Rithala GPS	95	0	0	0.00	0	
	Bawana GPS	686	0	0	0.00	0	
	Badarpur TPS (NTPC)	705	585	510	13.04	544	
	Thermal (Total)	2232	1022	1024	24.01	1000	
	Total Delhi	2232	1022	1024	24.01	1000	
HP	Baspa HPS (IPP)	330	304	334	7.58	316	
	Malana HPS (IPP)	86	98	101	2.26	94	
	Other Hydro	589	533	481	12.38	516	
		Total HP	1005	935	916	22.23	926
J & K	Baglihar HPS (IPP)	450	434	436	10.45	436	
	Other Hydro	323	110	128	2.95	123	
	Gas/Diesel/Others	183	0	0	0.00	0	
		Total J & K	956	544	564	13.41	559
Total State Control Area Generation		34390	17598	17280	417.92	16987	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			3217	4593	101.48	4228	
Total Regional Availability(Gross)		57226	38231	38980	915.16	37706	

IV. Total Hydro Generation:

Regional Entities Hydro	10364	9203	8555	210.06	8753
State Control Area Hydro	5368	2928	2833	78.20	2832
Total Regional Hydro	15731	12131	11388	288.26	11585

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	400	450	0	8.07	0.00	8.07
Gwalior-Agra (D/C)	1273	1430	1914	0	34.29	0.00	34.29
Zerda-Kankroli	-116	-101	0	315	0.00	3.26	-3.26
Zerda-Bhinmal	-94	-39	90	320	0.00	1.91	-1.91
Malanpur-Auraiya	-67	-17	0	67	0.00	0.42	-0.42
Badod-Kota/Morak	-81	20	32	176	0.00	0.56	-0.56
Mundra-Mohindergarh(HVDC)	1037	1163	1135	0	25.14	0.00	25.14
Sub Total WR	2052	2856			67.51	6.16	61.35
Pusauli Bypass	200	200	200	0	4.84	0.00	4.84
MZP- GKP (D/C)	460	570	856	0	14.63	0.00	14.63
Patna-Balia(D/C)	374	583	810	0	12.64	0.00	12.64
B'Sharif-Balia (D/C)	133	240	421	0	5.33	0.00	5.33
Pusauli-Balia	-127	-96	0	138	0.00	2.31	-2.31
Gaya-Fatehpur (765 Kv)	26	57	108	0	1.13	0.00	1.13
Pusauli-Sahupuri	137	160	171	0	3.65	0.00	3.65
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-38	-40	0	45	0.00	0.90	-0.90
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sasaram - Fatehpur(765 KV)	0	63	169	0	1.12	0.00	1.12
Sub Total ER	1165	1737			43.33	3.21	40.13
Total IR Exch	3217	4593			110.84	9.36	101.48

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
37.03	3.43	40.45	-1.56	16.28	3.51	-9.40	-3.69	3.69

Total IR Schedule (MU)			Total IR Actual (MU)			Net IR UI (MU)		
Through ER	Through WR Inclds Mndra	Total	Through ER	Through WR	Total	Through ER	Through WR	Total
38.71	62.60	101.31	40.13	61.35	101.48	1.42	-1.25	0.17

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

<48.80	<49.0	<49.20	<49.50	<49.7	49.5 - 50.2	49.7-49.8	49.7 - 50.2	> 50.00	> 50.2
0.00	0.00	0.00	0.00	0.10	78.40	1.60	78.30	72.10	21.60

<----- 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					
50.55	18.03	49.69	19.42	50.09	0.30	0.15	50.53	49.90

VII. Voltage profile 400 kV

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	416	19:00	402	00:25	0.0	0.0	0.0	0.0
Gorakhpur	400	431	18:43	404	13:45	0.0	0.0	23.7	0.1
Bareilly	400	421	18:00	400	01:00	0.0	0.0	0.0	0.0
Kanpur	400	425	18:01	401	00:24	0.0	0.0	7.7	0.0
Dadri	400	417	18:05	400	23:02	0.0	0.0	0.0	0.0
Ballabgarh	400	422	18:03	402	23:12	0.0	0.0	2.2	0.0
Bawana	400	417	18:03	401	00:01	0.0	0.0	0.0	0.0
Bassi	400	429	18:02	401	23:16	0.0	0.0	13.5	0.0
Hissar	400	409	18:01	394	11:45	0.0	0.0	0.0	0.0
Moga	400	416	18:01	400	11:45	0.0	0.0	0.0	0.0
Abdullapur	400	415	18:04	402	00:26	0.0	0.0	0.0	0.0
Nalagarh	400	415	18:04	404	15:32	0.0	0.0	0.0	0.0
Kishenpur	400	413	04:29	402	13:37	0.0	0.0	0.0	0.0
Wagoora	400	414	04:29	402	15:51	0.0	0.0	0.0	0.0

VIII. Voltage profile 765 kV

Station	Voltage Level (kV)	Maximum		Minimum		Voltage (in % of Time)			
		Voltage(KV)	Time	Voltage (KV)	Time	<728 kV	<742 kV	>800 kV	>820 kV
Fatehpur	765	772	20:08	759	21:14	0.0	0.0	0.0	0.0
Balia	765	770	17:07	720	13:45	10.8	47.4	0.0	0.0
Moga	765	789	18:04	756	11:45	0.0	0.0	0.0	0.0
Agra	765	813	18:02	764	23:11	0.0	0.0	6.9	0.0
Bhiwani	765	789	18:04	751	11:43	0.0	0.0	0.0	0.0
Unnao	765	776	18:02	734	00:24	0.0	14.9	0.0	0.0

IX. 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	482.28	511.55	468.75	248.16	1571.02	1020.31
Pong	426.72	384.05	400.09	223.85	398.78	191.43	246.02	118.68
Tehri	829.79	740.04	746.65	32.00	818.65	982.26	461.58	374.00
Koteshwar	612.50	598.50	609.00	3.98	NA	NA	374.00	381.00
Chamera-I	760.00	748.75	NA	NA	NA	NA	369.91	353.19
Rihand	268.22	252.98	255.64	101.60	255.85	110.20	NA	NA
RPS	352.80	343.81	347.51	NA	NA	NA	NA	NA
Jawahar Sagar	298.70	295.78	297.94	NA	NA	NA	NA	NA
RSD	527.91	487.91	510.33	NA	501.56	NA	320.21	230.41

* NA: Not Available

X. System Constraints:

XI. Grid Disturbance / Any Other Significant Event:

XII. Weather Conditions For 09.06.2013 :

1. Hot & Humid weather in NR.

XIII. Synchronisation of new generating units :

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

XV. Tripping of lines in pooling stations :

XVI. Complete generation loss in a generating station :

NJPC (1600 MW) & KWHEP (1200 MW) closed down at 06:00 hrs of dt. 10.06.2013 due to high silt.

Report for : 09.06.2013

पारी प्रभाती अभियंता / SHIFT CHARGE ENGINEER