

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पब्लिसिटी की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 11.06.2013
Date of Reporting : 12.06.2013

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
35631	1420	37051	50.01	36723	2961	39684	50.21	865.9	31.78

* 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)	UI [OD:(+ve), UD:(-ve)]	
	Thermal	Hydro	Renewable/others \$	Total				Consumption (Net MU)	Shortages * (MU)
Punjab	44.57	12.41		56.98	112.71	104.46	-8.25	161.43	0.90
Haryana	53.00	0.77		53.77	88.49	85.70	-2.78	139.47	0.70
Rajasthan	74.67	0.00	7.42	82.09	68.34	65.54	-2.80	147.63	2.12
Delhi	28.46			28.46	79.43	75.35	-4.08	103.80	0.20
UP	114.38	14.17	5.40	133.94	103.59	95.28	-8.30	229.23	25.94
Uttarakhand		17.24		17.24	12.69	10.01	-2.69	27.25	0.00
HP		22.34		22.34	5.24	1.92	-3.33	24.25	0.22
J & K		13.41	0.00	13.41	15.69	13.61	-2.07	27.02	1.70
Chandigarh				0.00	6.15	5.80	-0.35	5.80	0.00
Total	315.08	80.33	12.82	408.22	492.32	457.67	-34.65	865.89	31.78

* 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	6209	0	-26	1794	7585	0	-746	1459	38.85	
Haryana	5792	0	-539	420	5909	190	-449	210	7.07	
Rajasthan	5961	0	-110	497	5824	63	-545	300	8.43	
Delhi	4099	0	-267	357	4377	40	-352	-16	7.07	
UP	9625	1320	-59	201	9896	2649	-495	640	13.57	
Uttarakhand	1559	0	303	138	1099	0	-199	40	1.79	
HP	990	0	-288	-783	806	19	30	-742	-17.65	
J&K	1151	100	-187	-318	986	0	-78	-318	-7.63	
Chandigarh	246	0	-20	0	240	0	14	0	0.31	
Total	35631	1420	-1193	2308	36723	2961	-2818	1575	51.82	

* 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	1551	1858	1543	34.68	1445	35.16	-0.48
	Rihand I STPS	1000	915	748	888	18.82	784	19.88	-1.07
	Rihand II STPS	1000	965	841	910	19.75	823	20.89	-1.15
	Rihand III STPS	500	470	425	440	9.86	411	10.32	-0.46
	Dadri I STPS	840	809	635	860	14.80	617	14.91	-0.10
	Dadri II STPS	980	973	705	998	18.06	753	18.62	-0.56
	Unchahar I TPS	420	402	335	371	7.55	315	8.34	-0.79
	Unchahar II TPS	420	201	164	179	3.67	153	4.12	-0.45
	Unchahar III TPS	210	200	157	182	3.68	153	4.02	-0.34
	ISTPP (Jhajhar)	1500	470	324	345	7.25	302	8.33	-1.08
	Dadri GPS	830	800	308	377	8.00	333	8.08	-0.08
	Anta GPS	419	397	244	248	4.75	198	5.29	-0.54
	Auraiya GPS	663	618	134	238	4.54	189	4.54	0.00
	Sub Total (A)	10782	8771	6878	7579	155.41	6475	162.50	-7.09
	B. NPC	NAPS	440	290	339	328	7.14	298	6.96
RAPS- B		440	387	433	437	9.37	390	9.29	0.08
RAPS- C		440	430	456	460	9.90	412	10.32	-0.42
Sub Total (B)		1320	1107	1228	1225	26.41	1100	26.57	-0.16
C. NHPC	Chamera I HPS	540	540	540	540	12.94	539	12.32	0.63
	Chamera II HPS	300	310	313	309	7.35	306	7.40	-0.05
	Chamera III HPS	231	231	233	231	5.53	230	5.53	0.00
	Bairasuil HPS	180	179	179	120	3.28	137	3.38	-0.10
	Salal-HPS	690	644	636	660	15.14	631	15.45	-0.32
	Tanakpur-HPS	94	84	54	80	1.36	57	2.00	-0.64
	Uri-HPS	480	475	476	472	11.22	467	11.36	-0.14
	Dhauliganga-HPS	280	280	281	282	6.74	281	6.71	0.04
	Dulhasti-HPS	390	339	407	401	8.07	336	8.13	-0.07
	Sewa-II HPS	120	119	123	0	1.23	51	1.47	-0.24
	Sub Total (C)	3305	3201	3242	3095	72.85	3035	73.74	-0.89
D. NJPC	Natpaa Jhakri	1500	1204	1624	0	27.09	1129	27.90	-0.81
	Sub Total (D)	1500	1204	1624	0	27.09	1129	27.90	-0.81
E. THDC	Tehri HPS	1000	526	423	544	10.18	424	10.36	-0.18
	Sub Total (E)	1400	815	719	810	15.76	656	16.11	-0.36
F. BBMB	Bhakra HPS	1480	1228	1259	1259	30.17	1257	29.47	0.70
	Dehar HPS	990	600	825	610	15.04	627	14.41	0.63
	Pong HPS	396	74	236	0	1.83	76	1.77	0.06
	Sub Total (F)	2866	1902	2320	1869	47.04	1960	45.65	1.39
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	168	233	5.14	214	5.35	-0.21
	KWHEP HPS(IPP)	1000	0	1203	0	17.37	724	20.04	-2.67
	Malana Stg-II HPS	100	0	114	113	2.72	113	2.20	0.52
	Shree Cement TPS	300	0	257	259	6.27	261	6.36	-0.10
	Budhil HPS(IPP)	70	0	34	34	0.82	34	0.72	0.10
	Sub Total (G)	1662	0	1776	639	32.32	1347	34.67	-2.35
H. Total Regional Entities (A-G)	22836	17000	17787	15217	376.88	15703	387.15	-10.27	

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	680	1261	22.91	955	
	Guru Nanak Dev TPS(Bhatinda)	440	185	335	5.83	243	
	Guru Hargobind Singh TPS(L.mbt)	920	482	838	15.83	660	
	Goindwal(GVK)		0	0	0.00	0	
	Thermal (Total)	2620	1347	2434	44.57	1857	
	Total Hydro	1148	667	536	12.41	517	
	Total Punjab	3768	2014	2970	56.98	2374	
Haryana	Panipat TPS	1367	660	813	15.49	646	
	DCRTPP (Yamuna nagar)	600	276	282	6.48	270	
	Faridabad GPS (NTPC)	432	178	178	4.13	172	
	RGTPP (khedar) (IPP)	1200	559	554	13.21	550	
	Magnum Diesel (IPP)	25	0	0	0.00	0	
	Jhajjar(CLP)	1320	584	589	13.69	571	
	Thermal (Total)	4944	2257	2416	53.00	2208	
	Total Hydro	62	30	31	0.77	32	
		Total Haryana	5006	2287	2447	53.77	2240
	Rajasthan	kota TPS	1240	863	738	19.13	797
suratgarh TPS		1500	947	1062	24.65	1027	
Chabra TPS		500	193	226	5.11	213	
Dholpur GPS		330	116	118	2.86	119	
Ramgarh GPS		111	59	59	1.59	66	
RAPS A (NPC)		300	195	179	4.30	179	
Barsingar (NLC)		250	168	205	4.74	198	
Giral LTPS		250	73	112	2.08	87	
Rajwest LTPS (IPP)		1080	396	413	10.22	426	
VSLP LTPS (IPP)		135	0	0	0.00	0	
Kalisindh Thermal		600	0	0	0.00	0	
Kawai(Adani)		660	0	0	0.00	0	
Thermal (Total)		6956	3010	3112	74.67	3111	
Total Hydro		550	0	0	0.00	0	
Wind power		2191	326	537	5.59	233	
Biomass		91	19	19	0.45	19	
Solar		201	0	0	1.38	57	
Renewable/Others (Total)		2483	345	556	7.42	309	
		Total Rajasthan	9989	3355	3668	82.09	3421
UP		Anpara TPS	1630	1338	1261	28.50	1188
	Obra TPS	1288	534	517	11.40	475	
	Paricha TPS	1140	848	545	16.40	683	
	Panki TPS	210	70	80	1.30	54	
	Harduaganj TPS	665	406	446	9.20	383	
	Tanda TPS (NTPC)	440	293	294	7.28	303	
	Roza TPS (IPP)	1200	801	999	21.16	881	
	Anpara-C (IPP)	1200	513	463	11.31	471	
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	324	382	7.83	326	
	Thermal (Total)	8223	5127	4987	114.38	4766	
	Vishnuparyag HPS (IPP)	400	436	396	10.33	430	
	Other Hydro	527	175	188	3.84	160	
	Cogeneration	981	225	225	5.40	225	
		Total UP	10131	5963	5796	133.94	5151
	Uttarakhand	Total Hydro	1303	754	700	17.24	718
Total Uttarakhand		1303	754	700	17.24	718	
Delhi	Rajghat TPS	135	93	97	2.37	99	
	Delhi Gas Turbine	282	79	147	2.92	121	
	Pragati Gas Turbine	330	260	284	6.74	281	
	Rithala GPS	95	0	0	0.00	0	
	Bawana GPS	686	190	226	4.92	205	
	Badarpur TPS (NTPC)	705	395	620	11.51	479	
	Thermal (Total)	2232	1017	1374	28.46	1186	
		Total Delhi	2232	1017	1374	28.46	1186
HP	Baspa HPS (IPP)	330	332	332	7.60	317	
	Malana HPS (IPP)	86	103	102	2.45	102	
	Other Hydro	589	551	477	12.29	512	
		Total HP	1005	986	911	22.34	931
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	16920	18430	408.22	16579	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			4072	5160	103.04	4294	
Total Regional Availability(Gross)		57226	38779	38807	888.14	36576	

IV. Total Hydro Generation:

Regional Entities Hydro	10364	9390	6120	187.97	7832
State Control Area Hydro	5368	3156	2930	80.33	2917
Total Regional Hydro	15731	12546	9050	268.30	10749

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	500	500	400	5.08	5.15	-0.07
Gwalior-Agra (D/C)	1386	1561	2019	0	28.97	0.00	28.97
Zerda-Kankroli	-55	-49	35	222	0.00	2.66	-2.66
Zerda-Bhinmal	0	-3	102	176	0.00	0.91	-0.91
Malanpur-Auraiya	-37	-37	0	71	0.00	0.55	-0.55
Badod-Kota/Morak	1	-13	1	60	0.00	0.33	-0.33
Mundra-Mohindergarh(HVDC)	1430	1450	1432	0	33.84	0.00	33.84
Sub Total WR	2325	3409			67.89	9.60	58.29
Pusauli Bypass	300	400	400	0	9.08	0.00	9.08
MZP- GKP (D/C)	490	514	662	0	12.61	0.00	12.61
Patna-Balia(D/C)	623	653	893	0	15.53	0.00	15.53
B'Sharif-Balia (D/C)	278	211	403	0	7.01	0.00	7.01
Pusauli-Balia	-57	-83	0	92	0.00	1.20	-1.20
Gaya-Fatehpur (765 Kv)	-15	-45	21	101	0.00	0.75	-0.75
Pusauli-Sahupuri	141	176	176	0	3.95	0.00	3.95
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)	25	-35	63	145	0.00	0.57	-0.57
Sub Total ER	1747	1751			48.18	3.42	44.76
Total IR Exch	4072	5160			116.07	13.02	103.04

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
38.81	3.18	41.98	12.81	2.29	4.32	1.78	0.55	-0.54

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
59.66	60.82	120.49	44.76	58.29	103.04	-14.90	-2.54	-17.44

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	0.00	58.60	0.30	58.60	86.70	41.40

<----- 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					
50.56	15.09	49.77	23.12	50.17	0.48	0.14	50.55	49.98

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	15:08	403	00:02	0.0	0.0	0.0	0.0
Gorakhpur	400	423	04:54	407	00:00	0.0	0.0	8.9	0.0
Bareilly	400	423	07:08	402	23:13	0.0	0.0	3.4	0.0
Kanpur	400	421	02:21	403	22:33	0.0	0.0	0.9	0.0
Dadri	400	415	11:59	401	23:10	0.0	0.0	0.0	0.0
Ballabgarh	400	424	02:15	405	16:38	0.0	0.0	3.3	0.0
Bawana	400	417	02:25	400	23:12	0.0	0.0	0.0	0.0
Bassi	400	432	02:21	410	08:47	0.0	0.0	47.5	0.8
Hissar	400	410	02:21	393	19:56	0.0	0.0	0.0	0.0
Moga	400	418	14:41	397	22:34	0.0	0.0	0.0	0.0
Abdullapur	400	418	07:07	399	19:57	0.0	0.0	0.0	0.0
Nalagarh	400	423	02:37	400	09:40	0.0	0.0	3.2	0.0
Kishenpur	400	415	15:08	401	09:42	0.0	0.0	0.0	0.0
Wagoora	400	415	02:12	400	09:37	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	781	15:07	760	16:15	0.0	0.0	0.0	0.0
Balia	765	758	04:07	726	00:37	0.7	53.1	0.0	0.0
Moga	765	788	02:21	742	23:11	0.0	0.0	0.0	0.0
Agra	765	814	02:25	754	18:40	0.0	0.0	4.1	0.0
Bhiwani	765	790	02:21	751	23:12	0.0	0.0	0.0	0.0
Unnao	765	768	15:10	738	22:36	0.0	3.2	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	483.71	552.50	467.84	234.83	1981.75	1077.03
Pong	426.72	384.05	400.44	230.85	398.44	185.67	450.78	127.65
Tehri	829.79	740.04	747.70	38.00	818.65	982.26	560.73	347.00
Koteshwar	612.50	598.50	607.75	3.64	NA	NA	347.00	370.00
Chamera-I	760.00	748.75	NA	NA	NA	NA	499.20	350.52
Rihand	268.22	252.98	255.30	88.20	255.39	91.80	NA	NA
RPS	352.80	343.81	347.82	NA	NA	NA	NA	NA
Jawahar Sagar	298.70	295.78	298.12	NA	NA	NA	NA	NA
RSD	527.91	487.91	511.52	NA	500.84	NA	489.54	258.08

* NA: Not Available

X. System Constraints:

XI. Grid Disturbance / Any Other Significant Event:

XII. Weather Conditions For 11.06.2013 :

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 :

Report for : 11.06.2013

पारी प्रभाती अभियंता / SHIFT CHARGE ENGINEER