

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरसिस्टम की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 08.08.2013
Date of Reporting : 09.08.2013

I. Regional Availability/Demand:

Demand Met	Evening Peak (20:00 Hrs) MW			Off Peak (03:00 Hrs) MW			Day Energy (Net MU)		
	Shortage	Requirement	Freq* (Hz)	Demand Met	Shortage	Requirement	Freq* (Hz)	Demand Met	Shortage
37710	2050	39760	49.81	36218	660	36878	50.12	884.3	28.02

* 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	48.52	9.88		58.41	123.42	123.38	-0.04	181.79	0.00
Haryana	59.82	0.55		60.37	90.15	86.15	-3.99	146.52	0.00
Rajasthan	66.58	7.03	24.94	98.55	49.34	40.78	-8.56	139.33	0.00
Delhi	25.94			25.94	66.31	63.94	-2.38	89.88	0.13
UP	118.09	3.39	1.20	122.68	120.01	114.54	-5.47	237.22	24.38
Uttarakhand		17.51		17.51	16.48	13.91	-2.57	31.42	0.68
HP		22.45		22.45	-0.14	0.41	0.55	22.87	1.14
J & K		13.74	0.00	13.74	17.24	16.26	-0.98	30.00	1.70
Chandigarh				0.00	5.58	5.30	-0.28	5.30	0.00
Total	318.95	74.56	26.14	419.65	488.40	464.68	-23.72	884.33	28.02

* 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	7656	0	-76	1552	7447	0	-25	1879	40.95
Haryana	6315	0	-208	618	6355	0	-265	747	12.14
Rajasthan	5879	0	-182	9	5359	0	-488	-6	-1.07
Delhi	4046	20	61	131	3392	0	-166	70	5.80
UP	9489	1740	-622	1333	10502	660	-169	1714	27.08
Uttarakhand	1479	190	-30	236	1229	0	-134	73	2.57
HP	971	0	-19	-639	852	0	-20	-1178	-20.24
J&K	1620	100	-94	67	922	0	-67	-425	-7.01
Chandigarh	255	0	8	-10	161	0	-50	-20	0.08
Total	37710	2050	-1161	3296	36218	660	-1383	2854	60.30

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

III. Regional Entities :

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	1735	1879	1854	40.77	1699	40.81	-0.04
Rihand I STPS	1000	915	996	802	19.22	801	19.29	-0.08
Rihand II STPS	1000	470	515	373	9.62	401	9.78	-0.16
Rihand III STPS	500	485	513	382	9.79	408	9.86	-0.07
Dadri I STPS	840	600	602	470	11.56	482	11.90	-0.34
Dadri II STPS	980	480	519	351	9.72	405	9.88	-0.16
Unchahar I TPS	420	391	416	305	7.81	325	8.02	-0.21
Unchahar II TPS	420	403	439	309	7.96	332	8.03	-0.08
Unchahar III TPS	210	201	217	153	3.92	163	3.98	-0.06
ISTPP (Jhajjar)	1500	1470	1007	640	16.05	669	16.29	-0.24
Dadri GPS	830	526	376	377	8.80	366	8.90	-0.10
Anta GPS	419	401	401	366	9.05	377	9.15	-0.10
Auraiya GPS	663	615	309	304	7.12	297	7.14	-0.02
Sub Total (A)	10782	8691	8189	6686	161.38	6724	163.04	-1.67
B. NPC								
NAPS	440	153	177	181	3.66	153	3.67	-0.01
RAPS- B	440	375	446	443	9.59	400	9.00	0.59
RAPS- C	440	210	233	237	5.01	209	5.04	-0.03
Sub Total (B)	1320	738	856	861	18.27	761	17.71	0.56
C. NHPC								
Chamera I HPS	540	534	540	540	12.64	527	12.63	0.01
Chamera II HPS	300	300	304	303	7.21	300	6.88	0.32
Chamera III HPS	231	231	239	232	5.55	231	5.54	0.00
Bairasuil HPS	180	179	110	179	3.66	153	3.82	-0.16
Salal-HPS	690	672	667	669	16.03	668	16.12	-0.09
Tanakpur-HPS	94	94	95	94	2.24	93	2.18	0.06
Uri-HPS	480	235	339	164	5.72	239	5.65	0.08
Dhauliganga-HPS	280	0	0	0	0.00	0	0.00	0.00
Dulhasti-HPS	390	292	272	401	6.36	265	6.21	0.16
Sewa-II HPS	120	119	125	123	2.92	122	2.91	0.01
Sub Total (C)	3305	2656	2691	2705	62.32	2597	61.95	0.37
D. NJPC								
Nathpa Jhakri	1500	1254	0	1613	18.91	788	18.62	0.29
Sub Total (D)	1500	1254	0	1613	18.91	788	18.62	0.29
E. THDC								
Tehri HPS	1000	1060	1061	1065	25.41	1059	25.25	0.16
Koteshwar HPS	400	346	277	367	8.25	344	8.29	-0.04
Sub Total (E)	1400	1406	1338	1432	33.65	1402	33.54	0.11
F. BBMB								
Bhakra HPS	1480	1324	1327	1348	32.29	1345	31.77	0.52
Dehar HPS	990	619	825	580	15.24	635	14.86	0.39
Pong HPS	396	306	312	312	7.56	315	7.34	0.22
Sub Total (F)	2866	2249	2464	2240	55.09	2295	53.97	1.12
G. IPP(s)/JV(s)								
ADHPL HPS(IPP)	192	0	199	191	4.30	179	4.33	-0.03
KWHEP HPS(IPP)	1000	0	0	1196	14.01	584	22.33	-8.32
Malana Stg-II HPS	100	0	113	113	2.70	112	2.52	0.17
Shree Cement TPS	300	0	135	127	3.08	128	3.51	-0.44
Budhil HPS(IPP)	70	0	74	74	1.76	73	1.69	0.07
Sub Total (G)	1662	0	521	1701	25.84	1077	34.38	-8.54
H. Total Regional Entities (A-G)	22836	16994	16059	17238	375.46	15644	383.22	-7.76

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	1110	1020	25.55	1065
	Guru Nanak Dev TPS(Bhatinda)	440	202	160	3.80	158
	Guru Hargobind Singh TPS(L.mbt)	920	907	730	19.18	799
	Goindwal(GVK)		0	0	0.00	0
	Thermal (Total)	2620	2219	1910	48.52	2022
	Total Hydro	1148	447	382	9.88	412
	Total Punjab	3768	2666	2292	58.41	2434
Haryana	Panipat TPS	1367	615	768	18.21	759
	DCRTPP (Yamuna nagar)	600	260	259	6.13	255
	Faridabad GPS (NTPC)	432	326	297	7.63	317
	RGTPP (khedar) (IPP)	1200	737	759	18.42	767
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	1320	372	523	9.44	393
	Thermal (Total)	4944	2310	2606	59.82	2492
	Total Hydro	62	21	10	0.55	23
	Total Haryana	5006	2331	2616	60.37	2515
	Rajasthan	kota TPS	1240	638	614	15.30
suratgarh TPS		1500	592	566	14.16	590
Chabra TPS		500	190	193	4.60	191
Dholpur GPS		330	80	76	1.96	82
Ramgarh GPS		111	24	24	0.74	31
RAPS A (NPC)		300	176	176	4.06	169
Barsingsar (NLC)		250	91	92	2.07	86
Giral LTPS		250	42	69	1.15	48
Rajwest LTPS (IPP)		1080	376	485	10.22	426
VSLP LTPS (IPP)		135	0	0	0.00	0
Kalisindh Thermal		600	0	0	0.00	0
Kawai(Adani)		660	576	470	12.34	514
Thermal (Total)		6956	2785	2765	66.58	2774
Total Hydro		550	265	294	7.03	293
Wind power		2191	727	541	16.74	697
Biomass		91	30	30	0.71	30
Solar		201	0	0	0.46	19
Renewable/Others (Total)		2483	757	571	24.94	1039
Total Rajasthan		9989	3807	3630	98.55	4106
UP		Anpara TPS	1630	1220	1143	28.60
	Obra TPS	1288	425	389	10.30	429
	Paricha TPS	1140	731	588	15.70	654
	Panki TPS	210	113	122	2.00	83
	Harduaganj TPS	665	363	350	8.40	350
	Tanda TPS (NTPC)	440	400	393	9.69	404
	Roza TPS (IPP)	1200	1044	833	22.34	931
	Anpara-C (IPP)	1200	737	643	15.95	665
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	243	186	5.11	213
	Thermal (Total)	8223	5276	4647	118.09	4920
	Vishnuparyag HPS (IPP)	400	0	0	0.00	0
	Other Hydro	527	85	165	3.39	141
	Cogeneration	981	50	50	1.20	50
	Total UP	10131	5411	4862	122.68	5112
	Uttarakhand	Total Hydro	1303	780	754	17.51
Total Uttarakhand		1303	780	754	17.51	730
Delhi	Rajghat TPS	135	41	75	1.31	54
	Delhi Gas Turbine	282	75	74	2.04	85
	Pragati Gas Turbine	330	295	264	6.73	280
	Riithala GPS	95	0	0	0.00	0
	Bawana GPS	686	281	203	5.61	234
	Badarpur TPS (NTPC)	705	470	490	10.26	428
	Thermal (Total)	2232	1162	1106	25.94	1081
	Total Delhi	2232	1162	1106	25.94	1081
HP	Baspa HPS (IPP)	330	332	302	7.69	320
	Malana HPS (IPP)	86	57	54	1.35	56
	Other Hydro	589	607	607	13.42	559
	Total HP	1005	996	963	22.45	936
J & K	Baglihar HPS (IPP)	450	436	434	10.46	436
	Other Hydro	323	135	138	3.28	137
	Gas/Diesel/Others	183	0	0	0.00	0
	Total J & K	956	571	572	13.74	572
Total State Control Area Generation		34390	17724	16795	419.65	17485
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			5460	2748	100.07	4170
Total Regional Availability(Gross)		57226	39243	36781	895.18	37299

IV. Total Hydro Generation:

Regional Entities Hydro	10364	6805	9490	190.97	7957
State Control Area Hydro	5368	3165	3140	74.56	3107
Total Regional Hydro	15731	9970	12630	265.54	11064

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	500	50	500	0	6.62	0.00	6.62
Gwalior-Agra (D/C)	1422	586	1700	0	29.88	0.00	29.88
Zerda-Kankroli	34	-212	43	275	0.00	3.59	-3.59
Zerda-Bhinmal	39	-205	101	263	0.00	3.41	-3.41
Malanpur-Auraiya	-64	-63	0	119	0.00	1.13	-1.13
Badod-Kota/Morak	29	-65	29	111	0.00	1.28	-1.28
Mundra-Mohindergarh(HVDC)	1450	1237	1450	0	31.17	0.00	31.17
Sub Total WR	3410	1328			67.67	9.41	58.25
Pusauli Bypass	-270	-255	0	421	0.00	5.78	-5.78
MZP- GKP (D/C)	645	678	732	0	16.29	0.00	16.29
Patna-Balia(D/C)	752	426	859	0	13.64	0.00	13.64
B'Sharif-Balia (D/C)	474	247	571	0	8.14	0.00	8.14
Pusauli-Balia	67	-4	115	30	0.58	0.00	0.58
Gaya-Fatehpur (765 Kv)	54	23	92	41	1.10	0.00	1.10
Pusauli-Sahupuri	149	154	158	0	3.78	0.00	3.78
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)	217	191	253	0	4.96	0.00	4.96
Sub Total ER	2050	1420			48.49	6.68	41.82
Total IR Exch	5460	2748			116.16	16.09	100.07

V(B). Inter Regional Schedule & Actual Exchanges [Import (+ve)/Export (-ve)] [Corridor wise]

ER	ISGS/LT Schedule (MU)		Bilateral Schedule (MU)		Power Exchange Shdl (MU)		Wheeling (MU)	
	Bhutan	Total	Through ER	Through WR	Through ER	Through WR	Through ER	Through WR
37.79	3.73	41.51	0.22	40.97	0.99	-10.99	3.02	-3.02

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
45.75	76.84	122.59	41.82	58.25	100.07	-3.93	-18.59	-22.52

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	0.63	2.57	81.90	0.30	79.96	84.10	17.47

<----- 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)		
50.56	4.04	49.39	20.43	50.15	0.51	0.15	50.50	49.68

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	415	07:40	400	19:35	0.0	0.0	0.0	0.0
Gorakhpur	400	410	06:05	402	20:40	0.0	0.0	0.0	0.0
Bareilly	400	418	04:03	394	00:48	0.0	0.0	0.0	0.0
Kanpur	400	421	04:03	405	14:42	0.0	0.0	0.1	0.0
Dadri	400	413	18:03	399	19:42	0.0	0.0	0.0	0.0
Ballabgarh	400	427	03:59	407	19:32	0.0	0.0	29.4	0.0
Bawana	400	421	04:00	405	19:35	0.0	0.0	0.8	0.0
Bassi	400	431	04:02	407	19:39	0.0	0.0	30.7	0.1
Hissar	400	413	04:03	396	19:42	0.0	0.0	0.0	0.0
Moga	400	414	02:05	400	19:42	0.0	0.0	0.0	0.0
Abdullapur	400	418	18:06	405	19:47	0.0	0.0	0.0	0.0
Nalagarh	400	421	13:02	404	10:50	0.0	0.0	1.9	0.0
Kishenpur	400	420	02:10	403	19:33	0.0	0.0	0.0	0.0
Wagoora	400	420	02:05	387	20:45	0.0	5.9	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	763	18:05	733	19:14	0.0	31.6	0.0	0.0
Balia	765	766	04:03	719	21:09	10.7	46.6	0.0	0.0
Moga	765	791	04:01	761	19:40	0.0	0.0	0.0	0.0
Agra	765	810	04:03	740	14:43	0.0	0.0	12.4	0.0
Bhiwani	765	801	04:00	767	19:40	0.0	0.0	1.1	0.0
Unnao	765	761	08:05	727	20:42	0.0	34.4	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	504.01	1272.20	484.29	569.03	1344.37	934.43
Pong	426.72	384.05	419.88	889.22	402.87	288.90	1990.67	1011.34
Tehri	829.79	740.04	818.55	972.00	818.65	982.26	741.08	563.00
Koteshwar	612.50	598.50	610.45	4.69	NA	NA	NA	597.00
Chamera-I	760.00	748.75	NA	NA	NA	NA	335.27	344.07
Rihand	268.22	252.98	257.07	159.40	258.04	242.70	NA	NA
RPS	352.80	343.81	352.22	NA	NA	NA	NA	NA
Jawahar Sagar	298.70	295.78	297.39	NA	NA	NA	NA	NA
RSD	527.91	487.91	516.02	144.00	501.51	144.00	525.96	NA

* NA: Not Available

X. System Constraints:

XI. Grid Disturbance / Any Other Significant Event:

XII. Weather Conditions For 08.08.2013 :

1. Scattered Rain .

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 :

1. Dhauliganga (280 MW) closed down till 30.09.2013 due to flooding of power house.
2. Vishnuprayg(UPPCL) (400 MW) Closed due to High Silt level in river water.

Report for : 08.08.2013

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER