

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरसिस्टम की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 14.08.2013
Date of Reporting : 15.08.2013

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
36760	2000	38760	50.15	35188	200	35388	50.22	861.3	35.42

* 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	46.10	13.65		59.74	116.46	116.46	0.00	176.21	0.00
Haryana	57.84	0.42		58.26	85.43	85.31	-0.12	143.57	0.00
Rajasthan	66.50	6.93	10.56	83.99	49.74	45.66	-4.08	129.65	0.00
Delhi	23.91			23.91	68.42	67.75	-0.66	91.66	0.00
UP	116.72	3.51	1.20	121.43	116.61	115.63	-0.97	237.06	33.42
Uttarakhand		17.29		17.29	15.30	14.67	-0.63	31.95	0.30
HP		22.70		22.70	1.71	1.57	-0.13	24.27	0.00
J & K		13.59	0.00	13.59	10.92	7.85	-3.06	21.44	1.70
Chandigarh				0.00	5.88	5.46	-0.42	5.46	0.00
Total	311.06	78.09	11.76	400.91	470.46	460.38	-10.08	861.28	35.42

* 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	6931	0	-460	1871	7331	0	55	1878	44.72	
Haryana	6390	0	253	742	6015	0	-50	685	16.70	
Rajasthan	5726	0	104	40	5012	0	-253	141	-1.05	
Delhi	4069	0	85	259	3340	0	-261	178	6.46	
UP	9598	1830	-27	640	10582	200	-73	1043	17.74	
Uttarakhand	1542	70	-4	36	1203	0	12	24	0.58	
HP	1045	0	47	-1185	860	0	-6	-1173	-25.26	
J&K	1218	100	109	-324	659	0	-222	-602	-9.50	
Chandigarh	242	0	-26	0	187	0	-40	-10	0.05	
Total	36760	2000	80	2078	35188	200	-838	2163	50.43	

* 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	1639	1551	1822	34.02	1417	33.71	0.31
	Rihand I STPS	1000	917	886	870	18.06	752	18.47	-0.41
	Rihand II STPS	1000	470	442	499	9.14	381	9.21	-0.07
	Rihand III STPS	500	485	459	462	9.24	385	9.40	-0.16
	Dadri I STPS	840	600	651	475	12.27	511	12.68	-0.41
	Dadri II STPS	980	485	449	351	9.38	391	9.82	-0.44
	Unchahar I TPS	420	391	334	358	7.40	308	7.41	-0.01
	Unchahar II TPS	420	403	310	433	7.39	308	7.49	-0.10
	Unchahar III TPS	210	201	153	153	3.36	140	3.43	-0.06
	ISTPP (Jhajjar)	1500	1470	639	633	14.00	583	14.20	-0.20
	Dadri GPS	830	523	375	386	8.88	370	9.01	-0.13
	Anta GPS	419	404	389	400	9.37	390	9.49	-0.12
	Auraiya GPS	663	625	305	309	7.18	299	7.25	-0.06
	Sub Total (A)	10782	8612	6943	7151	149.70	6237	151.56	-1.86
B. NPC	NAPS	440	290	327	328	6.95	289	6.96	-0.01
	RAPS- B	440	399	438	445	9.53	397	9.58	-0.04
	RAPS- C	440	432	405	237	6.95	290	8.57	-1.61
	Sub Total (B)	1320	1121	1170	1010	23.43	976	25.10	-1.67
C. NHPC	Chamera I HPS	540	536	540	540	12.93	539	12.80	0.12
	Chamera II HPS	300	300	303	301	7.20	300	7.22	-0.02
	Chamera III HPS	231	231	233	233	5.55	231	5.52	0.03
	Bairasuil HPS	180	142	180	180	3.22	134	2.94	0.28
	Salal-HPS	690	347	0	662	1.79	75	7.92	-6.13
	Tanakpur-HPS	94	64	81	62	5.69	237	1.54	4.15
	Uri-HPS	480	231	267	160	4.87	203	4.93	-0.06
	Dhauliganga-HPS	280	0	0	0	0.00	0	0.00	0.00
	Dulhasti-HPS	390	280	381	363	6.72	280	6.72	0.00
	Sewa-II HPS	120	117	124	124	2.88	120	2.80	0.07
	Sub Total (C)	3305	2247	2109	2625	50.84	2118	52.39	-1.55
D. NJPC	Natpura Jhakri	1500	1605	1624	1609	38.62	1609	38.51	0.10
	Sub Total (D)	1500	1605	1624	1609	38.62	1609	38.51	0.10
E. THDC	Tehri HPS	1000	1060	1062	1047	25.35	1056	25.25	0.10
	Koteshwar HPS	400	355	365	367	8.50	354	8.52	-0.03
	Sub Total (E)	1400	1415	1427	1414	33.85	1410	33.77	0.07
F. BBMB	Bhakra HPS	1480	1186	1343	1097	28.66	1194	28.45	0.21
	Dehar HPS	990	618	825	620	15.25	635	14.83	0.43
	Pong HPS	396	366	372	372	9.00	375	8.78	0.22
	Sub Total (F)	2866	2169	2540	2089	52.91	2205	52.06	0.85
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	230	116	4.42	184	3.85	0.58
	KWHEP HPS(IPP)	1000	0	1195	1195	28.17	1174	28.51	-0.34
	Malana Stg-II HPS	100	0	113	113	2.70	113	2.52	0.18
	Shree Cement TPS	300	0	123	119	2.86	119	2.59	0.26
	Budhil HPS(IPP)	70	0	75	74	1.77	74	1.68	0.09
	Sub Total (G)	1662	0	1736	1617	39.92	1664	39.15	0.77
H. Total Regional Entities (A-G)	22836	17170	17549	17515	389.27	16220	392.55	-3.28	

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	1020	1055	24.78	1033
	Guru Nanak Dev TPS(Bhatinda)	440	170	180	3.55	148
	Guru Hargobind Singh TPS(L.mbt)	920	659	651	17.77	740
	Goindwal(GVK)		0	0	0.00	0
	Thermal (Total)	2620	1849	1886	46.10	1921
	Total Hydro	1148	575	574	13.65	569
Total Punjab	3768	2424	2460	59.74	2489	
Haryana	Panipat TPS	1367	758	753	18.13	755
	DCRTPP (Yamuna nagar)	600	249	259	5.98	249
	Faridabad GPS (NTPC)	432	302	309	7.38	307
	RGTPP (khedar) (IPP)	1200	352	366	9.16	382
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	1320	744	370	17.19	716
	Thermal (Total)	4944	2405	2057	57.84	2410
	Total Hydro	62	26	0	0.42	18
	Total Haryana	5006	2431	2057	58.26	2428
	Rajasthan	kota TPS	1240	681	622	15.25
suratgarh TPS		1500	643	570	13.86	578
Chabra TPS		500	349	343	8.15	339
Dholpur GPS		330	70	94	1.93	80
Ramgarh GPS		111	88	82	2.06	86
RAPS A (NPC)		300	176	176	4.10	171
Barsingsar (NLC)		250	91	90	2.09	87
Giral LTPS		250	0	0	0.00	0
Rajwest LTPS (IPP)		1080	367	392	7.92	330
VSLP LTPS (IPP)		135	0	0	0.00	0
Kalisindh Thermal		600	0	0	0.00	0
Kawai(Adani)		660	570	460	11.15	465
Thermal (Total)		6956	3035	2829	66.50	2771
Total Hydro		550	288	280	6.93	289
Wind power		2191	90	0	2.06	86
Biomass		91	31	31	0.74	31
Solar		201	0	0	0.83	35
Renewable/Others (Total)		2483	121	31	10.56	440
Total Rajasthan		9989	3444	3140	83.99	3500
UP		Anpara TPS	1630	1037	905	23.70
	Obra TPS	1288	348	326	8.70	363
	Paricha TPS	1140	850	788	19.70	821
	Panki TPS	210	59	113	2.20	92
	Harduaganj TPS	665	329	334	7.90	329
	Tanda TPS (NTPC)	440	390	383	9.52	397
	Roza TPS (IPP)	1200	991	996	23.73	989
	Anpara-C (IPP)	1200	695	725	16.87	703
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	187	201	4.40	184
	Thermal (Total)	8223	4886	4771	116.72	4863
	Vishnuparyag HPS (IPP)	400	0	0	0.00	0
	Other Hydro	527	126	133	3.51	146
	Cogeneration	981	50	50	1.20	50
	Total UP	10131	5062	4954	121.43	5060
	Uttarakhand	Total Hydro	1303	920	490	17.29
Total Uttarakhand		1303	920	490	17.29	720
Delhi	Rajghat TPS	135	41	34	0.95	40
	Delhi Gas Turbine	282	68	81	1.89	79
	Pragati Gas Turbine	330	297	264	6.77	282
	Riithala GPS	95	0	0	0.00	0
	Bawana GPS	686	237	205	5.56	232
	Badarpur TPS (NTPC)	705	280	436	8.74	364
	Thermal (Total)	2232	923	1020	23.91	996
	Total Delhi	2232	923	1020	23.91	996
HP	Baspa HPS (IPP)	330	331	331	7.63	318
	Malana HPS (IPP)	86	64	48	1.59	66
	Other Hydro	589	585	587	13.47	561
	Total HP	1005	980	966	22.70	946
J & K	Baglihar HPS (IPP)	450	440	434	10.45	436
	Other Hydro	323	135	135	3.14	131
	Gas/Diesel/Others	183	0	0	0.00	0
	Total J & K	956	575	569	13.59	566
Total State Control Area Generation		34390	16759	15656	400.91	16704
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			3844	2491	66.80	2783
Total Regional Availability(Gross)		57226	38152	35662	856.97	35707

IV. Total Hydro Generation:

Regional Entities Hydro	10364	9238	9161	211.51	8813
State Control Area Hydro	5368	3490	3012	78.09	3254
Total Regional Hydro	15731	12728	12173	289.60	12067

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	-50	-50	200	200	0.55	2.18	-1.64
Gwalior-Agra (D/C)	1375	971	1596	0	26.27	0.00	26.27
Zerda-Kankroli	-41	-185	0	322	0.00	5.21	-5.21
Zerda-Bhinmal	1	-138	11	337	0.00	4.44	-4.44
Malanpur-Auraiya	-63	-68	0	118	0.00	1.60	-1.60
Badod-Kota/Morak	-39	-63	0	157	0.00	2.17	-2.17
Mundra-Mohindergarh(HVDC)	1447	1032	1447	0	28.86	0.00	28.86
Sub Total WR	2630	1499			55.68	15.61	40.08
Pusauli Bypass	-245	-228	0	355	0.00	5.08	-5.08
MZP- GKP (D/C)	500	495	697	0	12.53	0.00	12.53
Patna-Balia(D/C)	353	334	393	0	7.75	0.00	7.75
B'Sharif-Balia (D/C)	244	219	263	0	5.09	0.00	5.09
Pusauli-Balia	-13	8	8	56	0.00	0.34	-0.34
Gaya-Fatehpur (765 Kv)	39	-52	51	52	0.07	0.00	0.07
Pusauli-Sahupuri	153	152	171	0	3.69	0.00	3.69
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)	221	104	256	0	3.91	0.00	3.91
Sub Total ER	1214	992			33.05	6.32	26.73
Total IR Exch	3844	2491			88.73	21.93	66.80

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
31.96	3.79	35.75	-3.50	41.22	-3.04	-18.32	3.17	-3.26

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
32.38	37.96	70.34	26.73	40.08	66.80	-5.66	2.11	-3.54

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	0.24	83.41	0.08	83.41	96.17	16.59

<----- 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	Hz				
50.56	7.06	49.74	22.10	50.19	0.48	0.10	50.51	0.00

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	04:24	405	01:23	0.0	0.0	0.0	0.0
Gorakhpur	400	421	05:20	408	01:39	0.0	0.0	4.1	0.0
Bareilly	400	421	04:10	405	22:12	0.0	0.0	0.5	0.0
Kanpur	400	422	18:04	406	22:10	0.0	0.0	1.1	0.0
Dadri	400	419	04:08	405	10:42	0.0	0.0	0.0	0.0
Ballabgarh	400	427	04:10	411	10:51	0.0	0.0	33.8	0.0
Bawana	400	420	04:02	407	10:44	0.0	0.0	0.0	0.0
Bassi	400	428	02:31	408	10:42	0.0	0.0	36.4	0.0
Hissar	400	412	04:02	398	12:12	0.0	0.0	0.0	0.0
Moga	400	415	23:36	399	14:41	0.0	0.0	0.0	0.0
Abdullapur	400	416	04:02	405	12:08	0.0	0.0	0.0	0.0
Nalagarh	400	413	04:02	400	11:39	0.0	0.0	0.0	0.0
Kishenpur	400	424	23:30	409	19:18	0.0	0.0	5.0	0.0
Wagoora	400	427	23:29	400	19:38	0.0	0.0	14.4	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	779	18:04	748	22:10	0.0	0.0	0.0	0.0
Balia	765	771	18:04	736	01:40	0.0	9.8	0.0	0.0
Moga	765	782	23:35	757	14:51	0.0	0.0	0.0	0.0
Agra	765	810	04:09	777	19:19	0.0	0.0	7.7	0.0
Bhiwani	765	798	04:11	771	14:55	0.0	0.0	0.0	0.0
Unnao	765	772	18:06	742	01:45	0.0	0.0	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	506.05	1352.81	486.34	627.57	1433.91	876.55
Pong	426.72	384.05	420.28	902.94	404.40	328.16	1023.62	515.08
Tehri	829.79	740.04	819.55	993.00	818.65	982.26	766.45	563.00
Koteshwar	612.50	598.50	610.20	4.69	NA	NA	1163.00	563.00
Chamera-I	760.00	748.75	NA	NA	NA	NA	544.22	349.72
Rihand	268.22	252.98	257.83	193.70	260.06	307.90	NA	NA
RPS	352.80	343.81	NA	NA	NA	NA	NA	NA
Jawahar Sagar	298.70	295.78	NA	NA	NA	NA	NA	NA
RSD	527.91	487.91	519.13	144.00	502.07	144.00	515.62	143.71

* NA: Not Available

X. System Constraints:

XI. Grid Disturbance / Any Other Significant Event:

XII. Weather Conditions For 14.08.2013 :

1. Rains 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 :

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.
3. Salal (690 MW) Closed due to High Silt level in river water.