

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरसिस्टम की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 22.08.2013
Date of Reporting : 23.08.2013

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
36966	2612	39578	50.06	32648	1110	33758	50.30	824.1	36.22

* 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	26.85	20.38		47.23	119.24	119.52	0.29	166.75	0.00
Haryana	54.86	0.69		55.55	70.06	68.61	-1.45	124.16	0.00
Rajasthan	56.26	7.62	12.74	76.61	56.43	52.94	-3.49	129.55	0.40
Delhi	18.83			18.83	71.14	69.42	-1.72	88.25	0.01
UP	103.09	4.69	0.96	108.74	117.02	116.83	-0.19	225.57	34.11
Uttarakhand		20.43		20.43	12.93	11.54	-1.39	31.97	0.00
HP		22.88		22.88	0.76	0.32	-0.44	22.20	0.00
J & K		13.68	0.00	13.68	17.06	15.66	-1.40	29.34	1.70
Chandigarh				0.00	5.59	5.35	-0.24	5.35	0.00
Total	259.88	90.36	13.70	363.94	470.23	460.20	-10.02	824.15	36.22

* 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	7310	0	9	1756	6613	0	28	2033	46.70	
Haryana	6117	0	-51	607	5130	0	-8	480	5.95	
Rajasthan	5744	242	69	45	5052	0	-134	123	2.46	
Delhi	4102	0	138	254	3158	0	-184	-121	2.85	
UP	9257	2270	-146	625	9766	1110	114	943	16.69	
Uttarakhand	1667	0	106	16	1066	0	-243	25	0.38	
HP	1090	0	50	-1145	800	0	-57	-1226	-27.34	
J&K	1432	100	-8	-308	869	0	-182	-535	-8.69	
Chandigarh	247	0	-5	-10	194	0	0	-30	-0.12	
Total	36966	2612	162	1840	32648	1110	-666	1692	38.89	

* 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	1770	1964	1362	40.07	1670	39.72	0.35
	Rihand I STPS	1000	920	994	710	18.03	751	18.91	-0.88
	Rihand II STPS	1000	468	513	360	9.96	415	9.69	0.28
	Rihand III STPS	500	481	516	346	10.22	426	10.49	-0.27
	Dadri I STPS	840	600	557	478	10.80	450	11.03	-0.24
	Dadri II STPS	980	975	1008	710	19.21	800	19.35	-0.14
	Unchahar I TPS	420	393	431	299	7.43	310	7.44	-0.01
	Unchahar II TPS	420	404	434	310	7.64	318	7.66	-0.02
	Unchahar III TPS	210	201	215	153	3.73	156	3.76	-0.03
	ISTPP (Jhajjar)	1500	1470	425	327	7.27	303	7.34	-0.07
	Dadri GPS	830	523	382	377	8.79	366	8.92	-0.13
	Anta GPS	419	405	259	238	5.94	247	5.96	-0.02
	Auraiya GPS	663	625	306	265	7.32	305	7.30	0.02
	Sub Total (A)	10782	9234	8004	5935	156.42	6517	157.57	-1.15
B. NPC	NAPS	440	292	322	337	7.00	292	7.01	0.00
	RAPS- B	440	401	443	446	9.56	398	9.62	-0.06
	RAPS- C	440	410	460	467	9.81	409	9.84	-0.03
	Sub Total (B)	1320	1103	1225	1250	26.37	1099	26.47	-0.10
C. NHPC	Chamera I HPS	540	535	540	540	12.90	538	12.84	0.06
	Chamera II HPS	300	300	302	303	7.23	301	7.21	0.02
	Chamera III HPS	231	231	239	239	5.57	232	5.53	0.04
	Bairasuil HPS	180	179	179	179	4.15	173	3.98	0.16
	Salal-HPS	690	667	665	667	15.95	665	15.98	-0.03
	Tanakpur-HPS	94	92	93	69	2.13	89	2.18	-0.06
	Uri-HPS	480	321	255	247	6.20	258	7.00	-0.80
	Dhauliganga-HPS	280	0	0	0	0.00	0	0.00	0.00
	Dulhasti-HPS	390	387	409	355	9.28	387	9.20	0.08
	Sewa-II HPS	120	119	127	120	2.94	123	2.93	0.02
	Sub Total (C)	3305	2831	2809	2719	66.34	2764	66.84	-0.49
D. NJPC	Nathpa Jhakri	1500	1605	1628	1623	38.68	1612	38.52	0.16
	Sub Total (D)	1500	1605	1628	1623	38.68	1612	38.52	0.16
E. THDC	Tehri HPS	1000	1060	1064	1046	25.48	1062	25.25	0.23
	Koteshwar HPS	400	375	378	374	9.02	376	9.00	0.02
	Sub Total (E)	1400	1435	1442	1420	34.51	1438	34.25	0.26
F. BBMB	Bhakra HPS	1480	1178	1347	1091	28.95	1206	28.28	0.67
	Dehar HPS	990	630	635	635	15.18	633	15.11	0.07
	Pong HPS	396	366	372	372	9.00	375	8.78	0.22
	Sub Total (F)	2866	2174	2354	2098	53.13	2214	52.18	0.95
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	230	231	5.20	217	5.28	-0.08
	KWHEP HPS(IPP)	1000	0	1199	1200	28.47	1186	28.51	-0.04
	Malana Stg-II HPS	100	0	113	112	2.69	112	2.52	0.17
	Shree Cement TPS	300	0	123	128	2.95	123	3.01	-0.05
	Budhil HPS(IPP)	70	0	69	60	1.53	64	1.41	0.12
	Sub Total (G)	1662	0	1734	1731	40.84	1702	40.73	0.11
H. Total Regional Entities (A-G)	22836	18382	19196	16776	416.29	17346	416.56	-0.27	

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	420	420	9.13	380
	Guru Nanak Dev TPS(Bhatinda)	440	95	95	2.00	83
	Guru Hargobind Singh TPS(L.mbt)	920	720	734	15.72	655
	Goindwal(GVK)		0	0	0.00	0
	Thermal (Total)	2620	1235	1249	26.85	1119
	Total Hydro	1148	963	866	20.38	849
Total Punjab	3768	2198	2115	47.23	1968	
Haryana	Panipat TPS	1367	410	379	9.36	390
	DCRTPP (Yamuna nagar)	600	0	0	0.00	0
	Faridabad GPS (NTPC)	432	187	161	4.09	170
	RGTPP (khedar) (IPP)	1200	869	738	19.54	814
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	1320	969	832	21.87	911
	Thermal (Total)	4944	2435	2110	54.86	2286
	Total Hydro	62	27	24	0.69	29
	Total Haryana	5006	2462	2134	55.55	2315
	Rajasthan	kota TPS	1240	575	544	13.74
suratgarh TPS		1500	849	738	18.44	768
Chabra TPS		500	404	199	7.50	313
Dholpur GPS		330	68	68	1.98	83
Ramgarh GPS		111	132	136	2.40	100
RAPS A (NPC)		300	176	176	4.01	167
Barsingsar (NLC)		250	91	91	2.05	86
Giral LTPS		250	0	0	0.00	0
Rajwest LTPS (IPP)		1080	285	230	6.13	255
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	2580	2182	56.26	2344
Total Hydro		550	295	297	7.62	317
Wind power		2191	251	562	11.49	479
Biomass		91	21	21	0.51	21
Solar		201	0	0	0.74	31
Renewable/Others (Total)		2483	272	583	12.74	531
Total Rajasthan		9989	3147	3062	76.61	3192
UP		Anpara TPS	1630	1213	1238	28.70
	Obra TPS	1288	301	225	6.80	283
	Paricha TPS	1140	833	734	18.80	783
	Panki TPS	210	72	126	2.20	92
	Harduaganj TPS	665	133	185	3.40	142
	Tanda TPS (NTPC)	440	391	383	9.58	399
	Roza TPS (IPP)	1200	819	1004	22.24	927
	Anpara-C (IPP)	1200	478	485	11.38	474
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	0	0	0.00	0
	Thermal (Total)	8223	4240	4380	103.09	4295
	Vishnuparyag HPS (IPP)	400	0	0	0.00	0
	Other Hydro	527	245	230	4.69	195
	Cogeneration	981	40	40	0.96	40
	Total UP	10131	4525	4650	108.74	4531
	Uttarakhand	Total Hydro	1303	930	839	20.43
Total Uttarakhand		1303	930	839	20.43	851
Delhi	Rajghat TPS	135	27	0	0.65	27
	Delhi Gas Turbine	282	81	81	1.90	79
	Pragati Gas Turbine	330	265	260	6.61	275
	Riithala GPS	95	0	0	0.00	0
	Bawana GPS	686	0	0	0.00	0
	Badarpur TPS (NTPC)	705	475	420	9.67	403
	Thermal (Total)	2232	848	761	18.83	785
	Total Delhi	2232	848	761	18.83	785
HP	Baspa HPS (IPP)	330	339	308	7.53	314
	Malana HPS (IPP)	86	68	53	1.49	62
	Other Hydro	589	556	585	13.86	578
	Total HP	1005	963	946	22.88	953
J & K	Baglihar HPS (IPP)	450	436	438	10.47	436
	Other Hydro	323	132	137	3.21	134
	Gas/Diesel/Others	183	0	0	0.00	0
	Total J & K	956	568	575	13.68	570
Total State Control Area Generation		34390	15641	15082	363.94	15164
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			3286	1461	42.43	1768
Total Regional Availability(Gross)		57226	38123	33319	822.66	34277

IV. Total Hydro Generation:

Regional Entities Hydro	10364	9775	9403	229.02	9543
State Control Area Hydro	5368	3991	3777	90.36	3765
Total Regional Hydro	15731	13766	13180	319.39	13308

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	-300	-500	0	500	0.00	9.94	-9.94
Gwalior-Agra (D/C)	1148	742	1284	0	20.03	0.00	20.03
Zerda-Kankroli	38	-265	38	341	0.00	4.26	-4.26
Zerda-Bhinmal	107	-246	107	309	0.00	3.14	-3.14
Malanpur-Auraiya	-81	-57	0	98	0.00	1.53	-1.53
Badod-Kota/Morak	47	-34	58	127	0.00	4.80	-4.80
Mundra-Mohindergarh(HVDC)	997	681	998	0	19.35	0.00	19.35
Sub Total WR	1956	321			39.38	23.66	15.72
Pusauli Bypass	100	100	100	0	2.41	0.00	2.41
MZP- GKP (D/C)	450	450	503	0	10.54	0.00	10.54
Patna-Balia(D/C)	352	287	382	0	6.58	0.00	6.58
B'Sharif-Balia (D/C)	189	184	234	0	3.85	0.00	3.85
Pusauli-Balia	-88	-32	0	88	0.00	1.28	-1.28
Gaya-Fatehpur (765 Kv)	55	33	79	59	0.34	0.00	0.34
Pusauli-Sahupuri	124	66	147	0	2.86	0.00	2.86
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-37	-38	0	45	0.00	0.80	-0.80
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sasaram - Fatehpur(765 KV)	185	90	185	0	2.20	0.00	2.20
Sub Total ER	1330	1140			28.78	2.08	26.70
Total IR Exch	3286	1461			68.16	25.74	42.43

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
29.59	1.74	31.33	-11.42	32.38	-5.22	-12.85	2.34	-2.34

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
17.04	51.71	68.74	26.70	15.72	42.43	9.67	-35.98	-26.32

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	2.60	90.58	0.51	87.99	77.36	9.42

<----- 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	Index			
50.61	6.05	49.65	19.15	50.11	0.34	0.13	50.43	49.79

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	02:18	406	14:20	0.0	0.0	0.0	0.0
Gorakhpur	400	423	11:19	410	14:21	0.0	0.0	17.0	0.0
Barailly	400	425	06:06	391	14:41	0.0	0.0	5.3	0.0
Kanpur	400	416	11:00	402	19:15	0.0	0.0	0.0	0.0
Dadri	400	424	06:04	400	19:34	0.0	0.0	10.0	0.0
Ballabgarh	400	431	06:05	405	19:34	0.0	0.0	39.2	0.1
Bawana	400	424	06:04	401	19:35	0.0	0.0	16.4	0.0
Bassi	400	433	02:14	407	19:19	0.0	0.0	53.0	2.7
Hissar	400	414	06:04	393	19:18	0.0	0.0	0.0	0.0
Moga	400	413	06:04	397	19:15	0.0	0.0	0.0	0.0
Abdullapur	400	417	06:09	398	19:18	0.0	0.0	0.0	0.0
Nalagarh	400	412	06:05	395	14:37	0.0	0.0	0.0	0.0
Kishenpur	400	417	03:52	405	19:07	0.0	0.0	0.0	0.0
Wagoora	400	415	00:08	396	20:13	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	782	06:04	739	19:15	0.0	1.4	0.0	0.0
Balia	765	769	06:04	735	14:16	0.0	18.5	0.0	0.0
Moga	765	783	06:04	748	19:36	0.0	0.0	0.0	0.0
Agra	765	814	06:05	768	19:20	0.0	0.0	25.9	0.0
Bhiwani	765	803	06:05	762	19:17	0.0	0.0	0.7	0.0
Unnao	765	769	04:46	745	13:53	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	508.80	1435.27	491.83	798.00	1406.84	877.82
Pong	426.72	384.05	421.74	965.39	412.35	577.87	1023.68	506.64
Tehri	829.79	740.04	819.10	982.26	818.65	982.26	628.91	567.00
Koteshwar	612.50	598.50	604.40	4.39	NA	NA	742.00	596.00
Chamera-I	760.00	748.75	NA	NA	NA	NA	450.18	349.50
Rihand	268.22	252.98	259.08	255.50	261.37	381.60	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	524.30	144.00	504.64	144.00	365.09	423.76

* NA: Not Available

X. System Constraints:

XI. Grid Disturbance / Any Other Significant Event:

XII. Weather Conditions For 22.08.2013 :

1. NORMAL

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 : 22.08.2013

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER