

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 13.08.2013

Date of Reporting : 14.08.2013

I. Regional Availability/Demand:

Demand Met	Evening Peak (20:00 Hrs) MW			Demand Met	Off Peak (03:00 Hrs) MW			Day Energy (Net MU)	
	Shortage	Requirement	Freq* (Hz)		Shortage	Requirement	Freq* (Hz)	Demand Met	Shortage
38935	2165	41100	50.20	36748	895	37643	50.29	881.5	38.31

* 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	44.25	13.58		57.84	125.15	125.82	0.67	183.66	0.00
Haryana	57.95	0.18		58.12	92.50	92.34	-0.15	150.47	0.00
Rajasthan	65.61	7.10	15.09	87.80	52.84	47.61	-5.23	135.41	0.00
Delhi	24.57			24.57	70.26	68.74	-1.52	93.31	0.00
UP	114.41	3.44	1.20	119.04	120.90	118.71	-2.19	237.75	32.79
Uttarakhand		12.46		12.46	16.91	16.20	-0.70	28.66	3.82
HP		21.26		21.26	2.02	2.44	0.42	23.70	0.00
J & K		13.59	0.00	13.59	13.89	9.61	-4.29	23.20	1.70
Chandigarh				0.00	5.70	5.35	-0.35	5.35	0.00
Total	306.79	71.60	16.29	394.68	500.16	486.82	-13.34	881.50	38.31

* 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	8117	0	86	1875	8122	0	25	1883	44.83	
Haryana	6951	0	251	719	6413	0	-106	678	16.56	
Rajasthan	5884	0	-78	32	5069	0	-305	133	2.39	
Delhi	4166	0	112	199	3458	0	-235	106	4.73	
UP	9674	1830	-155	650	10628	895	111	1043	17.89	
Uttarakhand	1452	235	286	50	1262	0	-110	-77	-1.37	
HP	1109	0	132	-1184	830	0	-49	-1093	-25.28	
J&K	1335	100	20	-324	765	0	-162	-628	-9.76	
Chandigarh	247	0	-14	0	202	0	5	-35	-0.04	
Total	38935	2165	641	2016	36748	895	-827	2010	49.95	

* 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	1935	2073	2058	44.44	1852	44.94	-0.49
Rihand I STPS	1000	891	948	915	18.63	776	19.26	-0.63
Rihand II STPS	1000	473	513	458	9.77	407	10.04	-0.27
Rihand III STPS	500	485	510	467	9.66	402	9.84	-0.18
Dadri I STPS	840	600	639	471	12.59	525	12.92	-0.33
Dadri II STPS	980	485	424	344	9.28	387	9.74	-0.46
Unchahar I TPS	420	391	409	409	8.39	350	8.67	-0.28
Unchahar II TPS	420	403	391	420	8.23	343	8.39	-0.17
Unchahar III TPS	210	201	215	153	3.99	166	4.09	-0.10
ISTPP (Jhajjar)	1500	1470	683	643	14.24	594	14.60	-0.36
Dadri GPS	830	523	375	382	8.86	369	9.01	-0.15
Anta GPS	419	404	391	358	9.06	377	9.17	-0.11
Auraiya GPS	663	619	308	306	7.17	299	7.18	-0.01
Sub Total (A)	10782	8880	7879	7384	164.29	6845	167.84	-3.55
B. NPC								
NAPS	440	288	323	332	6.94	289	6.91	0.02
RAPS- B	440	399	438	445	9.53	397	9.58	-0.04
RAPS- C	440	260	405	237	6.95	290	6.24	0.71
Sub Total (B)	1320	947	1166	1014	23.42	976	22.73	0.70
C. NHPC								
Chamera I HPS	540	534	540	540	12.87	536	12.82	0.05
Chamera II HPS	300	300	303	299	7.15	298	7.20	-0.05
Chamera III HPS	231	231	233	233	5.53	230	5.54	-0.01
Bairasuil HPS	180	179	180	80	3.46	144	3.37	0.09
Salal-HPS	690	661	667	667	15.86	661	15.90	-0.04
Tanakpur-HPS	94	62	0	94	1.25	52	1.46	-0.21
Uri-HPS	480	217	306	151	4.87	203	5.01	-0.15
Dhauliganga-HPS	280	0	0	0	0.00	0	0.00	0.00
Dulhasti-HPS	390	257	265	267	6.18	258	6.14	0.04
Sewa-II HPS	120	119	125	120	2.88	120	2.88	0.00
Sub Total (C)	3305	2561	2619	2451	60.05	2502	60.32	-0.27
D. NJPC								
Nathpa Jhakri	1500	1605	1605	1618	38.47	1603	38.50	-0.03
Sub Total (D)	1500	1605	1605	1618	38.47	1603	38.50	-0.03
E. THDC								
Tehri HPS	1000	1043	1065	1043	24.89	1037	24.86	0.03
Koteshwar HPS	400	365	367	365	8.77	365	8.76	0.01
Sub Total (E)	1400	1408	1432	1408	33.65	1402	33.62	0.03
F. BBMB								
Bhakra HPS	1480	1184	1340	1096	28.91	1205	28.42	0.49
Dehar HPS	990	590	825	600	14.12	588	14.16	-0.04
Pong HPS	396	366	372	372	9.05	377	8.78	0.27
Sub Total (F)	2866	2140	2537	2068	52.08	2170	51.36	0.72
G. IPP(s)/JV(s)								
ADHPL HPS(IPP)	192	0	229	121	4.14	173	3.85	0.30
KWHEP HPS(IPP)	1000	0	1197	1195	28.13	1172	28.51	-0.38
Malana Stg-II HPS	100	0	113	112	2.69	112	2.52	0.17
Shree Cement TPS	300	0	124	118	2.89	120	2.98	-0.09
Budhil HPS(IPP)	70	0	75	75	1.72	72	1.68	0.04
Sub Total (G)	1662	0	1738	1621	39.57	1649	39.53	0.03
H. Total Regional Entities (A-G)	22836	17541	18976	17564	411.54	17147	413.90	-2.37

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	1160	1260	27.15	1131
	Guru Nanak Dev TPS(Bhatinda)	440	202	100	3.52	147
	Guru Hargobind Singh TPS(L.mbt)	920	896	931	13.58	566
	Goindwal(GVK)		0	0	0.00	0
	Thermal (Total)	2620	2258	2291	44.25	1844
	Total Hydro	1148	573	563	13.58	566
	Total Punjab	3768	2831	2854	57.84	2410
Haryana	Panipat TPS	1367	749	756	17.92	747
	DCRTPP (Yamuna nagar)	600	253	224	5.99	250
	Faridabad GPS (NTPC)	432	386	302	7.77	324
	RGTPP (kheadar) (IPP)	1200	390	380	9.34	389
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	1320	761	586	16.93	705
	Thermal (Total)	4944	2539	2248	57.95	2414
	Total Hydro	62	0	21	0.18	7
	Total Haryana	5006	2539	2269	58.12	2422
	Rajasthan	kota TPS	1240	673	625	14.76
suratgarh TPS		1500	625	573	13.64	568
Chabra TPS		500	333	378	8.69	362
Dholpur GPS		330	94	44	1.73	72
Ramgarh GPS		111	54	76	1.52	63
RAPS A (NPC)		300	176	176	4.09	170
Barsingsar (NLC)		250	90	92	2.09	87
Giral LTPS		250	0	0	0.00	0
Rajwest LTPS (IPP)		1080	306	306	7.83	326
VSLP LTPS (IPP)		135	0	0	0.00	0
Kalisindh Thermal		600	0	0	0.00	0
Kawai(Adani)		660	533	455	11.27	470
Thermal (Total)		6956	2884	2725	65.61	2734
Total Hydro		550	283	296	7.10	296
Wind power		2191	351	266	5.77	240
Biomass		91	31	31	0.74	31
Solar		201	0	0	1.47	61
Renewable/Others (Total)		2483	382	297	15.09	629
Total Rajasthan		9989	3549	3318	87.80	3658
UP		Anpara TPS	1630	1256	1128	25.70
	Obra TPS	1288	365	358	7.80	325
	Paricha TPS	1140	822	794	17.60	733
	Panki TPS	210	130	150	2.80	117
	Harduaganj TPS	665	392	387	8.20	342
	Tanda TPS (NTPC)	440	384	383	9.55	398
	Roza TPS (IPP)	1200	999	999	23.68	987
	Anpara-C (IPP)	1200	703	452	13.89	579
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	197	242	5.20	216
	Thermal (Total)	8223	5248	4893	114.41	4767
	Vishnuparyag HPS (IPP)	400	0	0	0.00	0
	Other Hydro	527	152	184	3.44	143
	Cogeneration	981	50	50	1.20	50
	Total UP	10131	5450	5127	119.04	4960
	Uttarakhand	Total Hydro	1303	401	854	12.46
Total Uttarakhand		1303	401	854	12.46	519
Delhi	Rajghat TPS	135	41	45	0.97	40
	Delhi Gas Turbine	282	80	81	1.91	79
	Pragati Gas Turbine	330	267	264	6.57	274
	Riithala GPS	95	0	0	0.00	0
	Bawana GPS	686	239	219	5.59	233
	Badarpur TPS (NTPC)	705	440	435	9.54	398
	Thermal (Total)	2232	1067	1044	24.57	1024
	Total Delhi	2232	1067	1044	24.57	1024
HP	Baspa HPS (IPP)	330	339	309	7.62	317
	Malana HPS (IPP)	86	50	46	1.22	51
	Other Hydro	589	586	577	12.42	518
	Total HP	1005	975	932	21.26	886
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	17387	16967	394.68	16445
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			4195	2994	76.95	3206
Total Regional Availability(Gross)		57226	40558	37525	883.16	36798

IV. Total Hydro Generation:

Regional Entities Hydro	10364	9732	8973	219.22	9134
State Control Area Hydro	5368	2959	3419	71.60	2983
Total Regional Hydro	15731	12691	12392	290.82	12118

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	200	-50	250	350	1.23	2.09	-0.86
Gwalior-Agra (D/C)	1470	921	1521	0	28.68	0.00	28.68
Zerda-Kankroli	57	-157	57	271	0.00	3.40	-3.40
Zerda-Bhinmal	92	-139	118	280	0.00	2.72	-2.72
Malanpur-Auraiya	-62	-72	0	95	0.00	1.35	-1.35
Badod-Kota/Morak	14	-60	14	98	0.00	1.32	-1.32
Mundra-Mohindergarh(HVDC)	1447	1434	1447	0	29.44	0.00	29.44
Sub Total WR	3218	1877			59.35	10.88	48.47
Pusauli Bypass	-296	-250	0	332	0.00	4.88	-4.88
MZP- GKP (D/C)	438	505	627	0	12.61	0.00	12.61
Patna-Balia(D/C)	321	350	428	0	8.50	0.00	8.50
B'Sharif-Balia (D/C)	168	216	296	0	5.25	0.00	5.25
Pusauli-Balia	-21	-7	11	42	0.00	0.45	-0.45
Gaya-Fatehpur (765 Kv)	26	3	194	63	0.68	0.00	0.68
Pusauli-Sahupuri	137	169	139	0	3.32	0.00	3.32
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)	242	171	252	0	4.36	0.00	4.36
Sub Total ER	977	1117			34.71	6.23	28.48
Total IR Exch	4195	2994			94.06	17.11	76.95

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
34.61	3.79	38.40	-3.90	41.01	-0.67	-20.93	3.18	-3.18

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
37.01	66.42	103.44	28.48	48.47	76.95	-8.53	-17.96	-26.49

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	76.90	0.10	76.90	86.20	23.10

<----- 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)		
50.42	13.05	49.78	19.40	50.12	0.27	0.11	50.43	50.00

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	413	07:50	403	09:23	0.0	0.0	0.0	0.0
Gorakhpur	400	418	17:43	409	23:27	0.0	0.0	0.0	0.0
Barilly	400	423	08:05	393	15:14	0.0	0.0	1.1	0.0
Kanpur	400	419	08:02	401	19:40	0.0	0.0	0.0	0.0
Dadri	400	418	06:06	400	19:40	0.0	0.0	0.0	0.0
Ballabgarh	400	424	06:04	407	19:40	0.0	0.0	15.9	0.0
Bawana	400	420	06:08	405	14:55	0.0	0.0	0.0	0.0
Bassi	400	424	04:05	407	19:39	0.0	0.0	23.2	0.0
Hissar	400	408	06:08	397	19:39	0.0	0.0	0.0	0.0
Moga	400	409	23:02	398	11:11	0.0	0.0	0.0	0.0
Abdullapur	400	417	06:05	404	19:21	0.0	0.0	0.0	0.0
Nalagarh	400	408	07:58	399	11:15	0.0	0.0	0.0	0.0
Kishenpur	400	420	23:07	407	19:39	0.0	0.0	0.0	0.0
Wagoora	400	423	23:08	397	19:56	0.0	0.0	3.2	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	769	18:01	739	19:40	0.0	0.9	0.0	0.0
Balia	765	764	06:09	732	22:09	0.0	10.9	0.0	0.0
Moga	765	772	07:59	752	11:14	0.0	0.0	0.0	0.0
Agra	765	805	08:04	768	19:41	0.0	0.0	1.8	0.0
Bhiwani	765	791	06:06	769	14:50	0.0	0.0	0.0	0.0
Unnao	765	762	08:04	734	19:40	0.0	6.1	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	992.26	818.65	982.26	1063.87	552.00
Koteshwar	612.50	598.50	610.00	4.44	NA	NA	1052.00	581.00
Chamera-I	760.00	748.75	NA	NA	NA	NA	387.27	348.57
Rihand	268.22	252.98	257.59	183.00	259.90	299.60	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	517.25	145.00	501.75	115.20	378.07	NA

* NA: Not Available

X. System Constraints:

XI. Grid Disturbance / Any Other Significant Event:

XII. Weather Conditions For 13.08.2013 :

1. Normal weather.

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 : 13.08.2013

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER