

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरसिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 10.08.2014
Date of Reporting : 11.08.2014

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
38700	1840	40540	49.95	39604	2860	42464	50.08	914.9	56.53

* 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	52.02	21.46		73.48	122.32	122.75	0.43	196.23	0.00
Haryana	56.50	0.50		57.00	107.84	106.67	-1.17	163.67	0.20
Rajasthan	82.23	5.34	8.58	96.15	35.56	35.36	-0.20	131.51	0.00
Delhi	20.75			20.75	71.51	68.06	-3.45	88.81	0.13
UP	97.70	14.10	0.72	112.52	129.50	132.78	3.28	245.30	54.50
Uttarakhand		16.70		16.70	17.16	16.33	-0.83	33.03	0.00
HP		26.73		26.73	-3.56	-3.54	0.01	23.19	0.00
J & K		13.72	0.00	13.72	16.50	14.36	-2.14	28.08	1.70
Chandigarh				0.00	5.16	5.05	-0.11	5.05	0.00
Total	309.20	98.55	9.30	417.04	501.99	497.82	-4.17	914.86	56.53

* 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				# Max(hourly) Demand Met of Day (MW)
	Demand Met	Shortage	UI	STOA/PX transaction	Demand Met	Shortage	UI	STOA/PX transaction	
Punjab	8472	0	76	1594	8153	0	-8	1698	8560
Haryana	6925	0	-150	1621	7419	0	-168	1673	7879
Rajasthan	5299	0	-80	-802	5458	0	-247	-413	6042
Delhi	3814	0	304	35	4059	0	-161	123	4476
UP	10151	1740	212	793	10951	2860	267	1183	11259
Uttarakhand	1297	0	-229	84	1530	0	4	84	1541
HP	937	0	3	-1382	953	0	77	-1533	1114
J&K	1565	100	126	-408	881	0	-115	-803	1565
Chandigarh	240	0	18	0	201	0	-5	0	265
Total	38700	1840	280	1536	39604	2860	-356	2011	41402

* STOA figures are at sellers boundary & PX figures are at regional boundary. # figures may not be at simultaneous hour.

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III. Regional Entities :

A. NTPC	Station/ Constituent	Inst. Capacity (Effective) MW	Declared Capacity(MW)	Peak MW	Off Peak MW	Energy	Average	Schedule	UI
				(Gross)	(Gross)	(Net MU)	Sentout(MW)	Net MU	Net MU
	Singrauli STPS	2000	1914	2043	1837	47.68	1987	43.80	3.88
	Rihand I STPS	1000	693	770	834	17.75	740	16.01	1.74
	Rihand II STPS	1000	757	775	855	18.84	785	17.64	1.19
	Rihand III STPS	1000	113	0	490	2.44	102	2.64	-0.20
	Dadri I STPS	840	813	582	555	15.35	640	13.99	1.36
	Dadri II STPS	980	973	678	722	17.74	739	17.13	0.61
	Unchahar I TPS	420	395	429	364	9.68	403	8.84	0.84
	Unchahar II TPS	420	204	204	164	4.70	196	4.39	0.31
	Unchahar III TPS	210	198	191	158	4.58	191	4.17	0.41
	ISTPP (Jhajjar)	1500	950	634	706	15.23	635	15.98	-0.76
	Dadri GPS	830	788	189	359	5.50	229	5.53	-0.03
	Anta GPS	419	393	255	228	6.18	258	6.07	0.11
	Auraiya GPS	663	635	146	162	3.62	151	3.49	0.13
	Dadri Solar	5	1	0	0	0.02	1	0.03	-0.01
	Unchahar Solar	10	0	0	0	0.00	0	0.00	0.00
	Sub Total (A)	11297	8825	6896	7434	169	7055	160	10
B. NPC	NAPS	440	270	310	313	6.49	270	6.48	0.01
	RAPS- B	440	286	227	407	6.31	263	6.86	-0.56
	RAPS- C	440	350	414	366	8.52	355	8.40	0.12
	Sub Total (B)	1320	906	951	1086	21.32	888	21.74	-0.42
C. NHPC	Chamera I HPS	540	534	544	547	13.02	543	12.82	0.21
	Chamera II HPS	300	301	307	309	7.33	305	7.22	0.11
	Chamera III HPS	231	229	235	230	5.56	232	5.50	0.06
	Bairasui HPS	180	178	181	120	2.77	115	2.80	-0.03
	Salal-HPS	690	662	676	677	16.25	677	15.89	0.36
	Tanakpur-HPS	94	87	87	87	2.11	88	2.08	0.03
	Uri-HPS	480	348	414	317	8.68	362	8.35	0.32
	Uri-II HPS	240	198	241	182	4.84	202	4.73	0.11
	Dhauliganga-HPS	280	191	140	209	4.51	188	4.59	-0.08
	Dulhasti-HPS	390	386	399	395	9.34	389	9.26	0.08
	Sewa-II HPS	120	119	120	121	1.90	79	1.80	0.10
	Parbati 3	390	261	264	132	5.01	209	4.94	0.07
	Sub Total ©	3935	3494	3607	3327	81	3388	80	1
D.SJVNL	NJPC	1500	1605	1605	1605	38.44	1602	38.45	-0.01
	Rampur HEP	275	350	362	362	8.64	360	8.38	0.25
	Sub Total (D)	1775	1955	1967	1967	47.08	1962	46.84	0.24
E. THDC	Tehri HPS	1000	1000	1002	1009	24.12	1005	24.00	0.12
	Koteshwar HPS	400	385	400	383	8.65	360	8.60	0.05
	Sub Total (E)	1400	1385	1402	1392	32.77	1365	32.60	0.17
F. BBMB	Bhakra HPS	1514	969	1345	826	23.56	981	23.25	0.31
	Dehar HPS	990	570	825	560	14.10	588	13.68	0.43
	Pong HPS	396	138	258	132	3.39	141	3.30	0.09
	Sub Total (F)	2900	1676	2428	1518	41.04	1710	40.22	0.82
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	218	181	4.24	177	4.42	-0.18
	KWHEP HPS(IPP)	1000	0	1200	1200	28.66	1194	28.52	0.14
	Malana Stg-II HPS	100	0	113	112	2.65	110	2.49	0.16
	Shree Cement TPS	300	0	119	142	2.60	108	2.63	-0.03
	Budhil HPS(IPP)	70	0	72	37	1.28	53	1.67	-0.40
	Sub Total (G)	1662	0	1722	1672	39.43	1643	39.74	-0.31
H. Total Regional Entities (A-G)		24289	18241	18973	18397	432.29	18012	420.87	11.42

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	1030	1030	19.64	818
	Guru Nanak Dev TPS(Bhatinda)	440	225	225	3.74	156
	Guru Hargobind Singh TPS(L.mbt)	920	691	691	14.22	592
	Goindwal(GVK)		0	0	0.00	0
	Rajpura	700	600	600	14.42	601
	Talwandi Saboo	660	0	0	0.00	0
	Thermal (Total)	3980	2546	2546	52.02	2167
	Total Hydro	1148	990	990	21.46	894
	Total Punjab	5128	3536	3536	73.48	3062
	Haryana	Panipat TPS	1367	565	406	9.56
DCRTPP (Yamuna nagar)		600	527	536	11.69	487
Faridabad GPS (NTPC)		432	189	190	4.61	192
RGTPP (khedar) (IPP)		1200	455	529	11.00	458
Magnum Diesel (IPP)		25	0	0	0.00	0
Jhajjar(CLP)		1320	740	1091	19.64	818
Thermal (Total)		4944	2476	2752	56.50	2354
Total Hydro		62	21	20	0.50	21
Total Haryana		5006	2497	2772	57.00	2375
Rajasthan		kota TPS	1240	720	647	16.02
	suratgarh TPS	1500	796	831	19.18	799
	Chabra TPS	750	366	478	10.36	432
	Dholpur GPS	330	96	97	2.35	98
	Ramgarh GPS	271	120	137	3.67	153
	RAPS A (NPC)	300	0	0	0.00	0
	Barsingsar (NLC)	250	196	196	4.39	183
	Giral LTPS	250	47	40	0.97	40
	Rajwest LTPS (IPP)	1080	475	407	11.70	487
	VSLP LTPS (IPP)	135	0	0	0.00	0
	Kalisindh Thermal	600	167	280	2.90	121
	Kawai(Adani)	1320	433	441	10.70	446
	Thermal (Total)	8026	3416	3554	82	3426
	Total Hydro	550	216	218	5.34	223
	Wind power	2798	251	470	7.48	312
	Biomass	99	26	26	0.60	25
	Solar	730	0	0	0.49	21
	Renewable/Others (Total)	3627	277	496	8.58	357
	Total Rajasthan	12203	3909	4268	96.15	4006
	UP	Anpara TPS	1630	436	867	14.30
Obra TPS		1288	321	292	7.10	296
Paricha TPS		1140	410	397	9.90	413
Panki TPS		210	131	108	2.90	121
Harduaganj TPS		665	432	251	8.20	342
Tanda TPS (NTPC)		440	273	271	6.80	283
Roza TPS (IPP)		1200	864	860	20.50	854
Anpara-C (IPP)		1200	892	891	20.50	854
Bajaj Energy Pvt.Ltd(IPP) TPS		450	323	320	7.50	313
Thermal (Total)		8223	4082	4257	97.70	4071
Vishnuparyag HPS (IPP)		400	436	0	8.80	367
Other Hydro		527	228	257	5.30	221
Cogeneration		981	30	30	0.72	30
Total UP		10131	4776	4544	112.52	4322
Uttarakhand		Total Hydro	1303	765	760	16.70
	Total Uttarakhand	1303	765	760	16.70	696
Delhi	Rajghat TPS	135	47	47	1.06	44
	Delhi Gas Turbine	282	73	73	1.79	75
	Pragati Gas Turbine	330	261	287	6.55	273
	Rithala GPS	95	0	0	0.00	0
	Bawana GPS	1370	0	242	2.22	92
	Badarpur TPS (NTPC)	705	365	366	9.14	381
	Thermal (Total)	2917	746	1015	20.75	865
	Total Delhi	2917	746	1015	20.75	865
HP	Baspa HPS (IPP)	300	331	331	7.66	319
	Malana HPS (IPP)	86	103	101	2.45	102
	Other Hydro	728	697	670	16.63	693
	Total HP	1114	1131	1102	26.73	1114
J & K	Baqlihar HPS (IPP)	450	450	436	10.58	441
	Other Hydro/IPP	436	132	132	3.14	131
	Gas/Diesel/Others	209	0	0	0.00	0
	Total J & K	1094	582	568	13.72	572
Total State Control Area Generation		38896	17942	18565	417.04	17010
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			5634	5142	109.16	4548
Total Regional Availability(Gross)		63186	42549	42104	958.49	39570

IV. Total Hydro Generation:

Regional Entities Hydro	11302	10935	9697	237.76	9907
State Control Area Hydro	5589	3933	3915	98.55	3739
Total Regional Hydro	16891	14868	13612	336.31	13646

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	100	100	500	0.13	5.03	-4.90
Gwalior-Agra (D/C)	1788	1523	2041	0	32.61	0.00	32.61
Zerda-Kankroli	-39	-215	0	275	0.00	4.02	-4.02
Zerda-Bhinmal	-13	-227	28	307	0.00	3.88	-3.88
Malanpur-Auraiya	-30	-45	0	87	0.00	1.05	-1.05
Badod-Kota/Morak	-58	-124	0	132	0.00	1.77	-1.77
Mundra-Mohindergarh(HVDC)	1700	1999	2005	0	46.40	0.00	46.40
Vindhychal - Rihand	360	484	484	0	10.33	0.00	10.33
Sub Total WR	4008	3495			89.48	15.75	73.73
Pusaali Bypass	148	400	400	200	1.98	2.17	-0.19
MZP- GKP (D/C)	576	546	764	0	13.60	0.00	13.60
Patna-Balia(D/C)	275	242	358	0	6.34	0.00	6.34
B'Sharif-Balia (D/C)	283	236	370	0	7.00	0.00	7.00
Pusaali-Balia	17	-57	30	66	0.04	0.00	0.04
Gaya-Fatehpur (765 Kv)	56	68	177	0	2.00	0.00	2.00
Pusaali-Sahupuri	116	188	196	196	3.26	0.00	3.26
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-30	-30	0	40	0.00	0.71	-0.71
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sasaram - Fatehpur(765 KV)	185	54	305	0	4.09	0.00	4.09
Sub Total ER	1626	1647			38.31	2.87	35.43
Total IR Exch	5634	5142			127.78	18.62	109.16

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
23.59	3.78	27.37	8.43	10.52	0.34	1.32	0.00	0.00

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
36.14	65.01	101.16	35.43	73.73	109.16	-0.71	8.72	8.00

VI. Frequency Profile ----- % of Time Frequency ----->

<49.2	<49.7	<49.8	<49.9	<50.0	49.9-50.05	50.05-50.10	50.10-50.20	>50.20	>50.50
0.00	0.88	6.85	18.97	55.17	62.07	13.13	3.21	0.63	NA

Frequency (Hz)				Average Frequency Hz	Frequency Variation Index	Std. Dev.	Frequency in 15 Min Block	
Maximum		Minimum					MAX (Hz)	MIN (Hz)
50.24	18.02	49.61	10.17	49.97	0.10	0.10	50.22	49.84

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	411	16:16	400	00:03	0.0	0.0	0.0	0.0
Gorakhpur	400	418	08:01	388	00:19	0.0	0.7	0.0	0.0
Bareilly	400	420	18:00	393	00:20	0.0	0.0	0.0	0.0
Kanpur	400	424	17:04	399	00:13	0.0	0.0	13.3	0.0
Dadri	400	421	17:59	401	00:13	0.0	0.0	0.8	0.0
Ballabgarh	400	427	17:02	406	00:12	0.0	0.0	44.0	0.0
Bawana	400	422	17:04	403	00:13	0.0	0.0	4.3	0.0
Bassi	400	436	18:01	418	00:12	0.0	0.0	98.3	20.4
Hissar	400	415	17:04	397	00:15	0.0	0.0	0.0	0.0
Moga	400	415	17:02	404	00:16	0.0	0.0	0.0	0.0
Abdullapur	400	417	17:04	396	00:10	0.0	0.0	0.0	0.0
Nalagarh	400	416	08:01	407	00:10	0.0	0.0	0.0	0.0
Kishenpur	400	417	04:02	408	20:07	0.0	0.0	0.0	0.0
Wagoora	400	415	03:54	399	20:05	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	789	18:01	742	00:14	0.0	0.0	0.0	0.0
Balia	765	786	18:02	747	22:17	0.0	0.0	0.0	0.0
Moga	765	804	17:02	781	00:22	0.0	0.0	5.0	0.0
Agra	765	801	17:04	757	00:15	0.0	0.0	0.1	0.0
Bhiwani	765	805	17:04	770	00:16	0.0	0.0	5.6	0.0
Unnao	765	775	17:23	730	00:13	0.0	3.5	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	487.48	652.97	491.45	778.28	1057.52	746.49
Pong	426.72	384.05	400.80	237.89	404.34	328.16	215.09	376.70
Tehri	829.79	740.04	748.65	42.00	NA	NA	301.26	205.00
Koteshwar	612.50	598.50	610.77	4.95	608.40	3.76	208.00	207.00
Chamera-I	760.00	748.75	757.00	12.82	NA	NA	505.02	347.40
Rihand	268.22	252.98	258.07	205.10	256.79	149.00	NA	NA
RPS	352.80	343.81	348.06	NA	NA	NA	NA	NA
Jawahar Sagar	298.70	295.78	298.80	NA	NA	NA	NA	NA
RSD	527.91	487.91	516.64	144.00	506.65	144.00	224.47	197.51

* NA: Not Available

X(A). Short-Term Open Access Details:

State	Off- Peak Hours (03:00 Hrs)			Peak Hours (20:00 Hrs)			Day Energy (MU)		
	Bilateral (MW)	IEX (MW)	PXIL (MW)	Bilateral (MW)	IEX (MW)	PXIL (MW)	Bilateral (MU)	IEX / PXIL (MU)	Total (MU)
Punjab	1462	236	0	1443	151	0	34.54	8.13	42.67
Delhi	392	-218	-51	431	-345	-51	11.82	-6.91	4.91
Haryana	1526	148	0	1534	87	0	36.92	2.88	39.80
HP	-1197	-337	0	-918	-464	0	-23.97	-10.42	-34.40
J&K	-480	-324	0	-437	30	0	-10.43	-2.80	-13.23
CHD	0	0	0	0	0	0	0.24	0.04	0.28
Rajasthan	-834	418	4	-865	63	0	-20.21	7.68	-12.53
UP	597	541	45	207	541	45	7.76	7.62	15.38
Uttarakhand	84	0	0	84	0	0	2.01	0.00	2.01
Total	1550	463	-2	1479	62	-5	38.68	6.21	44.89

X(B). Short-Term Open Access Details:

State	Bilateral (MW)		IEX (MW)		PXIL (MW)	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Punjab	1474	1403	585	31	0	0
Delhi	697	367	-76	-446	-4	-51
Haryana	1574	1502	158	-176	0	0
HP	-892	-1222	-311	-616	0	0
J&K	-378	-480	30	-400	0	0
CHD	29	0	20	0	0	0
Rajasthan	-816	-873	433	63	4	0
UP	613	159	639	0	48	0
Uttarakhand	84	84	0	0	0	0

XI. System Constraints:**XII. Grid Disturbance / Any Other Significant Event:****XIII. Weather Conditions For 10.08.2014 :****XIV. Synchronisation of new generating units :**
0.00**XV. Synchronisation of new 220 / 400 / 765 KV lines and energising of bus / /substation :****XVI. Tripping of lines in pooling stations :****XVII. Complete generation loss in a generating station :**