

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरसिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 11.08.2014
Date of Reporting : 12.08.2014

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
41826	2925	44751	49.88	37634	2060	39694	50.11	947.5	61.37

* 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	59.79	21.59		81.38	122.44	123.31	0.87	204.69	0.00
Haryana	63.49	0.52		64.01	103.55	101.26	-2.29	165.27	0.00
Rajasthan	89.55	5.29	14.49	109.33	30.06	28.64	-1.42	137.97	0.00
Delhi	23.50			23.50	76.41	75.44	-0.97	98.94	0.56
UP	88.20	16.20	0.72	105.12	131.91	136.00	4.10	241.12	60.41
Uttarakhand		19.15		19.15	16.43	15.97	-0.46	35.12	0.41
HP		27.16		27.16	-1.68	-1.82	-0.15	25.33	0.00
J & K		14.87	0.00	14.87	15.76	18.03	2.28	32.90	0.00
Chandigarh				0.00	5.45	6.18	0.73	6.18	0.00
Total	324.53	104.77	15.21	444.51	500.32	503.01	2.69	947.52	61.37

* 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	8673	0	-45	1453	8378	0	157	1804	9163
Haryana	8070	0	-167	1688	6533	0	-222	1702	8258
Rajasthan	6172	0	-28	-853	4898	0	-278	-463	6563
Delhi	4549	0	74	156	3547	0	-120	62	4866
UP	9717	2705	271	585	10844	2060	70	1289	10989
Uttarakhand	1657	120	103	84	1270	0	-47	84	1657
HP	1090	0	-49	-1329	876	0	1	-1548	1184
J&K	1609	100	191	-407	1078	0	104	-791	1612
Chandigarh	289	0	40	12	211	0	11	0	312
Total	41826	2925	391	1389	37634	2060	-324	2140	42754

* 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 (Gross)	Off Peak MW (Gross)	Energy (Net MU)	Average Sentout(MW)	Schedule Net MU	UI Net MU
Rihand I STPS	1000	654	647	733	14.74	614	14.91	-0.16	
Rihand II STPS	1000	850	923	824	19.69	820	19.55	0.14	
Rihand III STPS	1000	0	0	0	0.00	0	0.00	0.00	
Dadri I STPS	840	813	801	786	18.82	784	17.73	1.09	
Dadri II STPS	980	973	940	653	20.54	856	20.31	0.23	
Unchahar I TPS	420	395	426	405	10.02	418	9.15	0.87	
Unchahar II TPS	420	198	221	188	4.96	207	4.48	0.48	
Unchahar III TPS	210	198	209	186	4.88	203	4.44	0.43	
ISTPP (Jhajjar)	1500	950	962	671	17.90	746	18.62	-0.72	
Dadri GPS	830	788	185	184	4.46	186	4.49	-0.04	
Anta GPS	419	393	259	221	5.94	247	5.61	0.32	
Auraiya GPS	663	635	159	157	3.76	157	3.61	0.15	
Dadri Solar	5	1	0	0	0.02	1	0.03	-0.01	
Unchahar Solar	10	2	0	0	0.00	0	0.04	-0.04	
Sub Total (A)	11297	8677	7676	6793	171	7133	165	6	
B. NPC	NAPS	440	272	306	313	6.48	270	6.53	-0.05
RAPS- B	440	206	226	226	4.78	199	4.94	-0.17	
RAPS- C	440	390	415	418	8.94	372	9.36	-0.42	
Sub Total (B)	1320	868	947	957	20.19	841	20.83	-0.64	
C. NHPC	Chamera I HPS	540	534	542	546	13.05	544	12.82	0.23
Chamera II HPS	300	301	309	314	7.37	307	7.22	0.15	
Chamera III HPS	231	229	234	232	5.57	232	5.50	0.07	
Bairasui HPS	180	178	180	120	2.46	103	2.41	0.05	
Salal-HPS	690	662	676	676	16.27	678	15.89	0.38	
Tanakpur-HPS	94	86	87	88	2.09	87	2.06	0.03	
Uri-HPS	480	340	426	330	8.47	353	8.16	0.32	
Uri-II HPS	240	191	241	184	4.80	200	4.60	0.20	
Dhauliganga-HPS	280	179	139	141	4.24	177	4.29	-0.05	
Dulhasti-HPS	390	386	399	396	9.37	390	9.26	0.10	
Sewa-II HPS	120	119	122	33	1.16	49	1.00	0.16	
Parbati 3	390	261	266	131	4.68	195	4.62	0.06	
Sub Total ©	3935	3466	3621	3190	80	3314	78	2	
D.SJVNL	NJPC	1500	1605	1605	1605	38.40	1600	38.45	-0.05
Rampur HEP	275	350	358	360	8.61	359	8.40	0.21	
Sub Total (D)	1775	1955	1963	1965	47.00	1959	46.85	0.15	
E. THDC	Tehri HPS	1000	1000	1009	1003	24.20	1008	24.00	0.20
Koteshwar HPS	400	385	400	386	8.64	360	8.60	0.04	
Sub Total (E)	1400	1385	1409	1389	32.84	1368	32.60	0.24	
F. BBMB	Bhakra HPS	1514	957	1316	826	23.14	964	22.97	0.18
Dehar HPS	990	572	825	560	14.09	587	13.74	0.36	
Pong HPS	396	136	264	66	3.31	138	3.27	0.04	
Sub Total (F)	2900	1665	2405	1452	40.55	1689	39.97	0.58	
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	200	150	3.92	163	4.16	-0.23
KWHEP HPS(IPP)	1000	0	1200	1200	28.64	1194	28.51	0.13	
Malana Stg-II HPS	100	0	113	113	2.66	111	2.49	0.16	
Shree Cement TPS	300	0	141	122	2.96	123	3.00	-0.04	
Budhil HPS(IPP)	70	0	72	71	1.69	71	1.67	0.02	
Sub Total (G)	1662	0	1726	1655	39.87	1661	39.84	0.03	
H. Total Regional Entities (A-G)	24289	18016	19747	17401	431.18	17966	422.81	8.37	

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	1020	870	21.51	896
	Guru Nanak Dev TPS(Bhatinda)	440	332	170	5.52	230
	Guru Hargobind Singh TPS(L.mbt)	920	947	681	18.34	764
	Goindwal(GVK)		0	0	0.00	0
	Rajpura	700	644	646	14.42	601
	Talwandi Saboo	660	0	0	0.00	0
	Thermal (Total)	3980	2943	2367	59.79	2491
	Total Hydro	1148	927	858	21.59	900
	Total Punjab	5128	3870	3225	81.38	3391
	Haryana	Panipat TPS	1367	579	582	13.03
DCRTPP (Yamuna nagar)		600	524	471	11.51	479
Faridabad GPS (NTPC)		432	387	190	7.49	312
RGTPP (khedar) (IPP)		1200	570	455	11.16	465
Magnum Diesel (IPP)		25	0	0	0.00	0
Jhajjar(CLP)		1320	1127	740	20.31	846
Thermal (Total)		4944	3187	2438	63.49	2646
Total Hydro		62	21	20	0.52	22
Total Haryana		5006	3208	2458	64.01	2667
Rajasthan		kota TPS	1240	687	689	16.03
	suratgarh TPS	1500	811	793	18.97	790
	Chabra TPS	750	356	521	10.87	453
	Dholpur GPS	330	111	96	2.59	108
	Ramgarh GPS	271	118	110	3.88	162
	RAPS A (NPC)	300	0	0	0.00	0
	Barsingsar (NLC)	250	111	614	3.85	160
	Giral LTPS	250	47	47	1.07	44
	Rajwest LTPS (IPP)	1080	642	370	12.99	541
	VSLP LTPS (IPP)	135	0	0	0.00	0
	Kalisindh Thermal	600	306	288	7.30	304
	Kawai(Adani)	1320	589	438	12.01	500
	Thermal (Total)	8026	3778	3966	90	3731
	Total Hydro	550	218	217	5.29	220
	Wind power	2798	454	614	13.50	562
	Biomass	99	20	20	0.47	20
	Solar	730	0	0	0.53	22
	Renewable/Others (Total)	3627	474	634	14.49	604
	Total Rajasthan	12203	4470	4817	109.33	4556
	UP	Anpara TPS	1630	392	446	10.00
Obra TPS		1288	133	243	4.10	171
Paricha TPS		1140	564	603	14.00	583
Panki TPS		210	131	122	2.90	121
Harduaganj TPS		665	243	234	5.90	246
Tanda TPS (NTPC)		440	275	271	6.80	283
Roza TPS (IPP)		1200	864	864	20.60	858
Anpara-C (IPP)		1200	678	702	16.40	683
Bajaj Energy Pvt.Ltd(IPP) TPS		450	323	320	7.50	313
Thermal (Total)		8223	3603	3805	88.20	3675
Vishnuparyag HPS (IPP)		400	436	436	10.50	438
Other Hydro		527	259	271	5.70	238
Cogeneration		981	30	30	0.72	30
Total UP		10131	4328	4542	105.12	3943
Uttarakhand		Total Hydro	1303	798	802	19.15
	Total Uttarakhand	1303	798	802	19.15	798
Delhi	Rajghat TPS	135	46	46	1.24	52
	Delhi Gas Turbine	282	70	75	1.77	74
	Pragati Gas Turbine	330	290	290	6.96	290
	Rithala GPS	95	0	0	0.00	0
	Bawana GPS	1370	287	-11	4.40	183
	Badarpur TPS (NTPC)	705	372	368	9.13	380
	Thermal (Total)	2917	1065	768	23.50	979
	Total Delhi	2917	1065	768	23.50	979
HP	Baspa HPS (IPP)	300	330	330	7.81	325
	Malana HPS (IPP)	86	107	107	2.45	102
	Other Hydro	728	719	686	16.90	704
	Total HP	1114	1156	1123	27.16	1131
J & K	Baqilhar HPS (IPP)	450	436	436	10.46	436
	Other Hydro/IPP	436	183	187	4.40	184
	Gas/Diesel/Others	209	0	0	0.00	0
	Total J & K	1094	619	623	14.87	619
Total State Control Area Generation		38896	19514	18358	444.51	18084
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			5157	3987	105.60	4400
Total Regional Availability(Gross)		63186	44418	39746	981.29	40449

IV. Total Hydro Generation:

Regional Entities Hydro	11302	10911	9458	235.14	9798
State Control Area Hydro	5589	3998	3914	104.77	3928
Total Regional Hydro	16891	14909	13372	339.91	13725

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	200	250	200	0.80	3.02	-2.22
Gwalior-Agra (D/C)	1700	1235	2174	0	34.62	0.00	34.62
Zerda-Kankroli	-104	-277	0	327	0.00	4.66	-4.66
Zerda-Bhinmal	-135	-306	0	358	0.00	4.98	-4.98
Malanpur-Auraiya	0	0	0	0	0.00	0.00	0.00
Badod-Kota/Morak	-79	-170	0	172	0.00	2.76	-2.76
Mundra-Mohindergarh(HVDC)	2001	1703	2205	0	44.64	0.00	44.64
Vindhychal - Rihand	478	490	490	0	8.59	0.00	8.59
Sub Total WR	4061	2875			88.65	15.42	73.24
Pusaui Bypass	64	55	7	148	0.01	1.72	-1.70
MZP- GKP (D/C)	466	588	688	0	12.78	0.00	12.78
Patna-Balia(D/C)	277	236	385	0	6.46	0.00	6.46
B'Sharif-Balia (D/C)	281	295	379	0	7.33	0.00	7.33
Pusaui-Balia	16	29	38	0	0.52	0.00	0.52
Gaya-Fatehpur (765 Kv)	25	22	109	0	1.42	0.00	1.42
Pusaui-Sahupuri	-123	-169	-170	0	2.78	0.00	2.78
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-36	-30	0	40	0.00	0.77	-0.77
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sasaram - Fatehpur(765 KV)	126	86	198	0	3.54	0.00	3.54
Sub Total ER	1096	1112			34.85	2.48	32.37
Total IR Exch	5157	3987			123.50	17.90	105.60

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
23.45	3.78	27.23	10.24	11.00	-4.98	3.08	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
32.49	64.40	96.89	32.37	73.24	105.60	-0.12	8.84	8.72

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	1.97	16.70	38.05	72.91	49.89	9.04	3.02	0.00	NA

Frequency (Hz)				Average Frequency	Frequency Variation	Std. Dev.	Frequency in 15 Min Block	
Maximum		Minimum					MAX (Hz)	MIN (Hz)
Freq	Time	Freq	Time	Hz	Index			
50.19	6.02	49.57	19.25	49.92	0.18	0.11	50.16	49.76

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	410	17:01	403	00:03	0.0	0.0	0.0	0.0
Gorakhpur	400	416	06:38	397	14:35	0.0	0.0	0.0	0.0
Bareilly	400	419	06:42	396	14:45	0.0	0.0	0.0	0.0
Kanpur	400	422	06:42	408	14:38	0.0	0.0	3.7	0.0
Dadri	400	413	02:52	400	22:24	0.0	0.0	0.0	0.0
Ballabgarh	400	425	07:06	404	14:39	0.0	0.0	16.8	0.0
Bawana	400	420	06:03	403	14:35	0.0	0.0	0.0	0.0
Bassi	400	434	05:01	416	14:35	0.0	0.0	71.0	17.0
Hissar	400	411	05:02	397	14:28	0.0	0.0	0.0	0.0
Moga	400	412	05:02	401	14:30	0.0	0.0	0.0	0.0
Abdullapur	400	416	05:06	396	14:25	0.0	0.0	0.0	0.0
Nalagarh	400	415	05:03	400	14:29	0.0	0.0	0.0	0.0
Kishenpur	400	416	05:01	408	14:09	0.0	0.0	0.0	0.0
Wagoora	400	413	02:04	398	19:56	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	787	07:03	758	22:07	0.0	0.0	0.0	0.0
Balia	765	786	06:48	750	14:35	0.0	0.0	0.0	0.0
Moga	765	798	05:07	775	14:35	0.0	0.0	0.0	0.0
Agra	765	797	17:55	770	22:08	0.0	0.0	0.0	0.0
Bhiwani	765	801	07:03	771	14:36	0.0	0.0	0.3	0.0
Unnao	765	764	17:57	739	14:39	0.0	1.7	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	506.96	1396.66	505.37	1325.82	1244.89	710.38
Pong	426.72	384.05	409.90	494.27	420.28	902.94	585.03	218.66
Tehri	829.79	740.04	807.90	760.00	818.55	972.00	825.12	569.00
Koteshwar	612.50	598.50	611.03	5.09	609.95	4.44	569.00	573.00
Chamera-I	760.00	748.75	751.36	22.47	0.00	0.00	290.15	353.48
Rihand	268.22	252.98	0.00	0.00	0.00	0.00	0.00	0.00
RPS	352.80	343.81	0.00	0.00	0.00	0.00	0.00	0.00
Jawahar Sagar	298.70	295.78	0.00	0.00	0.00	0.00	0.00	0.00
RSD	527.91	487.91	519.30	11.53	517.53	3.59	13716.00	16502.00

* 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	1470	334	0	1453	0	0	34.74	5.66	40.40
Delhi	392	-279	-51	431	-224	-51	11.83	-5.11	6.72
Haryana	1595	107	0	1606	82	0	38.60	-1.15	37.44
HP	-1221	-327	0	-917	-412	0	-24.01	-9.24	-33.25
J&K	-479	-312	0	-437	30	0	-10.42	-2.90	-13.32
CHD	0	0	0	0	12	0	0.24	0.28	0.52
Rajasthan	-834	368	4	-858	5	0	-20.24	6.86	-13.37
UP	613	639	37	222	323	40	8.36	8.39	16.75
Uttarakhand	84	0	0	84	0	0	2.01	0.00	2.01
Total	1619	531	-11	1584	-184	-11	41.10	2.80	43.89

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

State	Bilateral (MW)		IEX (MW)		PXIL (MW)	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Punjab	1482	1410	510	0	0	0
Delhi	698	367	0	-414	-10	-51
Haryana	1645	1572	132	-686	0	0
HP	-892	-1221	-278	-481	0	0
J&K	-378	-479	30	-400	0	0
CHD	30	0	30	0	0	0
Rajasthan	-816	-867	403	5	4	0
UP	623	189	738	0	40	0
Uttarakhand	84	84	0	0	0	0

XI. System Constraints:**XII. Grid Disturbance / Any Other Significant Event:****XIII. Weather Conditions For 11.08.2014 :**

Rains in some parts of NR.

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 :**