

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरसिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 25.08.2014
Date of Reporting : 26.08.2014

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
46681	4318	50999	50.13	45762	2985	48747	50.01	1072.6	107.33

* 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	82.00	20.80		102.80	92.47	111.14	0.49	213.94	11.88
Haryana	98.41	0.60		99.00	93.93	92.80	-1.13	191.80	0.00
Rajasthan	123.58	0.12	11.98	135.68	72.01	76.66	4.66	212.34	6.38
Delhi	30.00			30.00	82.88	84.27	1.39	114.27	0.22
UP	112.50	16.40	0.40	129.30	114.51	120.99	6.48	250.29	83.95
Uttarakhand		18.74		18.74	14.60	16.56	1.95	35.30	3.21
HP		25.22		25.22	-0.29	0.96	1.25	26.18	0.00
J & K		3.14	0.00	3.14	14.99	19.00	4.01	22.14	1.70
Chandigarh				0.00	5.13	6.35	1.22	6.35	0.00
Total	446.49	85.01	12.38	543.87	508.40	528.72	20.32	1072.59	107.33

* 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	9288	650	-7	1374	9247	0	-45	1391	9430
Haryana	8895	0	-211	1246	8098	0	35	698	9043
Rajasthan	8545	68	41	-377	9225	0	198	614	9604
Delhi	4924	0	138	727	4462	0	-57	364	5364
UP	10306	3230	0	231	11051	2985	110	1549	11148
Uttarakhand	1582	270	25	85	1419	0	74	85	1594
HP	1248	0	86	-1209	816	0	20	-1514	1248
J&K	1615	100	189	-476	1219	0	266	-821	1632
Chandigarh	279	0	40	0	225	0	30	0	334
Total	46681	4318	301	1601	45762	2985	631	2366	47331

* 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	1409	1610	1359	36.76	1532	33.81	2.94
	Rihand I STPS	1000	421	457	464	11.06	461	10.09	0.97
	Rihand II STPS	1000	965	1031	1039	24.84	1035	23.14	1.69
	Rihand III STPS	1000	450	303	507	11.57	482	10.80	0.78
	Dadri I STPS	840	813	839	881	20.74	864	19.44	1.30
	Dadri II STPS	980	478	460	503	11.74	489	11.47	0.27
	Unchahar I TPS	420	195	213	218	5.19	218	4.67	0.52
	Unchahar II TPS	420	399	435	437	10.47	436	9.56	0.90
	Unchahar III TPS	210	198	212	218	5.20	217	4.74	0.46
	ISTPP (Jhajjar)	1500	910	975	956	20.12	838	21.54	-1.42
	Dadri GPS	830	788	418	276	8.50	354	8.65	-0.15
	Anta GPS	419	384	366	258	6.98	291	6.99	-0.01
	Auraiya GPS	663	638	286	224	6.60	275	6.39	0.21
	Dadri Solar	5	1	0	0	0.03	1	0.03	0.00
	Unchahar Solar	10	3	0	0	0.03	1	0.07	-0.04
	Sub Total (A)	11297	8051	7605	7340	180	7492	171	8
B. NPC	NAPS	440	264	304	310	6.40	267	6.34	0.06
	RAPS- B	440	201	227	228	4.82	201	4.82	0.00
	RAPS- C	440	380	405	413	8.73	364	9.12	-0.39
	Sub Total (B)	1320	845	936	951	19.95	831	20.28	-0.33
C. NHPC	Chamera I HPS	540	534	537	362	8.58	358	8.40	0.18
	Chamera II HPS	300	300	294	207	5.95	248	5.85	0.10
	Chamera III HPS	231	229	225	153	4.05	169	4.00	0.05
	Bairasui HPS	180	178	123	72	1.97	82	1.86	0.11
	Salal-HPS	690	660	670	674	16.08	670	15.84	0.24
	Tanakpur-HPS	94	85	86	87	2.08	87	2.03	0.05
	Uri-HPS	480	443	442	452	10.85	452	10.64	0.21
	Uri-II HPS	240	238	241	241	5.75	240	5.71	0.04
	Dhauliganga-HPS	280	207	210	209	5.01	209	4.97	0.04
	Dulhasti-HPS	390	386	395	394	9.32	388	9.26	0.05
	Sewa-II HPS	120	119	122	0	0.77	32	0.70	0.07
	Parbati 3	520	130	130	131	3.15	131	3.12	0.03
	Sub Total ©	4065	3510	3475	2983	74	3065	72	1
D.SJVNL	NJPC	1500	1605	1617	1617	38.56	1607	38.52	0.04
	Rampur HEP	275	341	359	362	8.41	350	8.19	0.22
	Sub Total (D)	1775	1946	1976	1979	46.96	1957	46.71	0.26
E. THDC	Tehri HPS	1000	1044	1044	250	9.59	399	9.50	0.09
	Koteshwar HPS	400	149	379	101	3.52	147	3.50	0.02
	Sub Total (E)	1400	1193	1423	351	13.11	546	13.00	0.11
F. BBMB	Bhakra HPS	1514	1222	1342	1089	29.46	1227	29.33	0.13
	Dehar HPS	990	575	825	580	14.09	587	13.81	0.28
	Pong HPS	396	105	258	66	2.45	102	2.51	-0.07
	Sub Total (F)	2900	1902	2425	1735	46.00	1917	45.65	0.35
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	114	112	2.53	105	3.04	-0.51
	KWHEP HPS(IPP)	1000	0	1200	1000	25.74	1072	25.69	0.05
	Malana Stg-II HPS	100	0	111	70	1.77	74	1.66	0.10
	Shree Cement TPS	300	0	150	149	3.53	147	3.55	-0.02
	Budhil HPS(IPP)	70	0	71	40	1.13	47	1.13	0.00
	Sub Total (G)	1662	0	1646	1371	34.68	1445	35.06	-0.38
H. Total Regional Entities (A-G)		24419	17448	19485	16710	414.09	17254	404.49	9.60

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	1154	1130	25.30	1054
	Guru Nanak Dev TPS(Bhatinda)	440	448	448	9.60	400
	Guru Hargobind Singh TPS(L.mbt)	920	897	945	20.30	846
	Goindwal(GVK)		0	0	0.00	0
	Rajpura	1400	1155	1173	26.80	1117
	Talwandi Saboo	660	0	0	0.00	0
	Thermal (Total)	4680	3654	3696	82.00	3417
	Total Hydro	1148	851	865	20.80	867
	Total Punjab	5828	4505	4561	102.80	4283
	Haryana	Panipat TPS	1367	1160	1132	26.65
DCRTPP (Yamuna nagar)		600	568	540	12.67	528
Faridabad GPS (NTPC)		432	161	158	3.88	162
RGTPP (khedar) (IPP)		1200	1162	927	25.91	1080
Magnum Diesel (IPP)		25	0	0	0.00	0
Jhajjar(CLP)		1320	1233	1233	29.31	1221
Thermal (Total)		4944	4284	3990	98.41	4100
Total Hydro		62	25	24	0.60	25
Total Haryana		5006	4309	4014	99.00	4125
Rajasthan		kota TPS	1240	1074	1073	24.47
	suratgarh TPS	1500	1116	1110	26.35	1098
	Chabra TPS	750	190	195	4.59	191
	Dholpur GPS	330	112	114	2.76	115
	Ramgarh GPS	271	133	128	2.96	123
	RAPS A (NPC)	300	0	0	0.00	0
	Barsingsar (NLC)	250	98	99	2.16	90
	Giral LTPS	250	70	70	1.37	57
	Rajwest LTPS (IPP)	1080	857	713	18.29	762
	VSLP LTPS (IPP)	135	0	0	0.00	0
	Kalisindh Thermal	600	482	480	11.96	498
	Kawai(Adani)	1320	1174	1176	28.67	1194
	Thermal (Total)	8026	5306	5158	124	5149
	Total Hydro	550	0	0	0.12	5
	Wind power	2798	527	464	10.92	455
	Biomass	99	35	35	0.83	35
	Solar	730	0	0	0.22	9
	Renewable/Others (Total)	3627	562	499	11.98	499
	Total Rajasthan	12203	5868	5657	135.68	5653
	UP	Anpara TPS	1630	876	805	20.30
Obra TPS		1288	455	521	11.30	471
Paricha TPS		1140	736	784	18.50	771
Panki TPS		210	140	63	2.60	108
Harduaganj TPS		665	436	436	10.20	425
Tanda TPS (NTPC)		440	360	272	7.40	308
Roza TPS (IPP)		1200	693	644	16.00	667
Anpara-C (IPP)		1200	860	853	20.60	858
Bajaj Energy Pvt.Ltd(IPP) TPS		450	203	284	5.60	233
Thermal (Total)		8223	4759	4662	112.50	4688
Vishnuparyag HPS (IPP)		400	436	436	9.60	400
Other Hydro		527	305	300	6.80	283
Cogeneration		981	15	15	0.40	17
Total UP		10131	5515	5413	129.30	4988
Uttarakhand		Total Hydro	1303	823	703	18.74
	Total Uttarakhand	1303	823	703	18.74	781
Delhi	Rajghat TPS	135	46	45	1.28	53
	Delhi Gas Turbine	282	106	106	2.62	109
	Pragati Gas Turbine	330	286	287	7.09	296
	Rithala GPS	95	0	0	0.00	0
	Bawana GPS	1370	443	441	11.44	477
	Badarpur TPS (NTPC)	705	8	284	7.56	315
	Thermal (Total)	2917	889	1163	30.00	1250
	Total Delhi	2917	889	1163	30.00	1250
HP	Baspa HPS (IPP)	300	330	330	7.92	330
	Malana HPS (IPP)	86	72	68	1.59	66
	Other Hydro	728	653	651	15.71	654
	Total HP	1114	1055	1049	25.22	1051
J & K	Baqlihar HPS (IPP)	450	0	0	0.00	0
	Other Hydro/IPP	436	128	128	3.14	131
	Gas/Diesel/Others	209	0	0	0.00	0
	Total J & K	1094	128	128	3.14	131
Total State Control Area Generation		39596	23092	22688	543.87	22261
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			5283.9	6982.01	135.88	5662
Total Regional Availability(Gross)		64016	47861	46380	1093.84	45177

IV. Total Hydro Generation:

Regional Entities Hydro	11432	10723	8230	209.66	8736
State Control Area Hydro	5589	3187	3069	85.01	3142
Total Regional Hydro	17021	13910	11299	294.67	11878

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	500	350	500	0	9.92	0.00	9.92
Gwalior-Agra (D/C)	1605	1893	2066	0	29.91	0.00	29.91
Zerda-Kankroli	-56	72	164	87	0.00	0.31	-0.31
Zerda-Bhinmal	-36	126	188	133	0.90	0.00	0.90
Malanpur-Auraiya	-145	-73	0	146	0.00	2.47	-2.47
Badod-Kota/Morak	-29	35	54	100	0.00	0.04	-0.04
Mundra-Mohindergarh(HVDC)	2001	2203	2204	0	50.30	0.00	50.30
Vindhychal - Rihand	338	333	399	0	8.38	0.00	8.38
Sub Total WR	4178	4939			99.41	2.81	96.59
Pusaui Bypass	-258	-147	0	364	0.00	4.04	-4.04
MZP- GKP (D/C)	440	810	868	0	15.93	0.00	15.93
Patna-Balia(D/C)	171	381	381	0	6.93	0.00	6.93
B'Sharif-Balia (D/C)	219	400	400	0	7.49	0.00	7.49
Pusaui-Balia	10	16	46	0	0.44	0.00	0.44
Gaya-Fatehpur (765 Kv)	113	84	149	56	1.67	0.00	1.67
Pusaui-Sahupuri	132	154	200	0	3.43	0.00	3.43
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-31	-36	0	45	0.00	0.82	-0.82
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sasaram - Fatehpur(765 KV)	310	381	417	0	8.27	0.00	8.27
Sub Total ER	1106	2043			44.16	4.87	39.29
Total IR Exch	5284	6982			143.56	7.68	135.88

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	
26.45	3.86	30.31	13.94	1.61	-1.24	8.88	0.00	0.00	

Total IR Schedule (MU)			Total IR Actual (MU)			Net IR UI (MU)		
Through ER	Through WR incld Mndra	Total	Through ER	Through WR	Total	Through ER	Through WR	Total
43.01	78.23	121.24	39.29	96.59	135.88	-3.72	18.36	14.64

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	1.53	8.72	34.44	73.70	54.19	8.39	2.79	0.23	NA

Frequency (Hz)				Average Frequency Hz	Frequency Variation Index	Std. Dev.	Frequency in 15 Min Block	
Maximum		Minimum					MAX (Hz)	MIN (Hz)
50.23	13.01	49.60	5.16	49.93	0.14	0.10	50.15	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	407	00:00	400	15:04	0.0	0.0	0.0	0.0
Gorakhpur	400	0	00:00	9999	00:00	0.0	0.0	0.0	0.0
Bareilly	400	412	06:03	397	14:58	0.0	0.0	0.0	0.0
Kanpur	400	415	18:43	396	00:07	0.0	0.0	0.0	0.0
Dadri	400	413	06:02	391	15:24	0.0	0.0	0.0	0.0
Ballabgarh	400	417	06:02	396	15:23	0.0	0.0	0.0	0.0
Bawana	400	414	06:01	396	15:24	0.0	0.0	0.0	0.0
Bassi	400	415	18:44	391	08:53	0.0	0.0	0.0	0.0
Hissar	400	404	06:02	390	12:16	0.0	0.0	0.0	0.0
Moga	400	409	06:01	397	12:26	0.0	0.0	0.0	0.0
Abdullapur	400	412	06:02	396	12:13	0.0	0.0	0.0	0.0
Nalagarh	400	414	06:00	400	15:23	0.0	0.0	0.0	0.0
Kishenpur	400	413	06:01	406	12:26	0.0	0.0	0.0	0.0
Wagoora	400	407	00:00	396	19:10	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	774	18:45	735	00:07	0.0	11.5	0.0	0.0
Balia	765	771	19:00	729	15:23	0.0	15.1	0.0	0.0
Moga	765	783	06:02	757	12:27	0.0	0.0	0.0	0.0
Agra	765	785	06:04	754	00:09	0.0	0.0	0.0	0.0
Bhiwani	765	789	06:02	761	00:07	0.0	0.0	0.0	0.0
Unnao	765	757	20:11	729	15:23	0.0	42.7	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	509.82	1545.02	509.59	1530.03	887.79	909.82
Pong	426.72	384.05	416.26	730.66	421.97	975.89	303.22	146.99
Tehri	829.79	740.04	812.95	862.00	819.75	995.00	425.95	220.00
Koteshwar	612.50	598.50	610.86	4.95	606.90	4.44	220.00	234.00
Chamera-I	760.00	748.75	750.76	0.00	0.00	0.00	202.85	231.87
Rihand	268.22	252.98	855.30	343.60	851.30	276.40	0.00	0.00
RPS	352.80	343.81	1155.00	0.00	1155.61	3.88	0.00	0.00
Jawahar Sagar	298.70	295.78	0.00	0.00	1309.94	2.18	0.00	0.00
RSD	527.91	487.91	516.25	11.50	524.20	11.53	238.00	486.00

* 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	1391	0	0	1374	0	0	32.85	0.00	32.85
Delhi	322	93	-51	437	290	0	9.54	5.37	14.90
Haryana	1429	-731	0	1386	-140	0	30.96	-16.36	14.60
HP	-1212	-302	0	-959	-250	0	-24.71	-5.92	-30.63
J&K	-681	-140	0	-436	-39	0	-11.54	-1.99	-13.53
CHD	0	0	0	0	0	0	0.24	0.00	0.24
Rajasthan	-830	1444	0	-815	439	0	-16.07	23.22	7.15
UP	859	640	49	231	0	0	9.71	7.66	17.37
Uttarakhand	90	-5	0	90	-5	0	2.16	-0.12	2.03
Total	1368	999	-1	1307	294	0	33.13	11.86	44.99

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

State	Bilateral (MW)		IEX (MW)		PXIL (MW)	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Punjab	1404	1331	0	0	0	0
Delhi	462	297	690	-478	0	-51
Haryana	1431	880	-139	-1183	0	0
HP	-934	-1212	-189	-319	0	0
J&K	-377	-681	-39	-191	0	0
CHD	30	0	0	0	0	0
Rajasthan	-224	-835	1592	-30	0	0
UP	859	215	1133	0	49	0
Uttarakhand	90	90	-5	-5	0	0

XI. System Constraints:**XII. Grid Disturbance / Any Other Significant Event:****XIII. Weather Conditions For 25.08.2014 :**

1. Normal weather in NR.

XIV. Synchronisation of new generating units :

0.00

XV. Synchronisation of new 220 / 400 / 765 KV lines and energising of bus / /substation :

1.1000 MVA Anapara D ICT ideally charged at 21.19 hrs on 22.08.14

XVI. Tripping of lines in pooling stations :**XVII. Complete generation loss in a generating station :**