पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)

उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 07.08.2014
Date of Reporting : 08.08.2014

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
41785	3658	45443	50.01	40167	2292	42459	50.05	956.7	64.69

* 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:

UI [OD:(+ve), UD: (-ve)]

State	State's Control Area Generation (Net MU)				Drawal Schedule	Actual Drawal	UI	Consumption	Shortages *
	Thermal	Hydro	Renewable/others $	Total	(Net MU)	(Net MU)	(Net MU)	(Net MU)	(MU)
Punjab	58.06	21.26		79.31	116.14	116.16	0.02	195.47	0.00
Haryana	65.31	0.24		65.55	107.78	106.69	-1.10	172.24	0.00
Rajasthan	88.71	4.41	23.68	116.80	22.66	20.27	-2.39	137.07	0.00
Delhi	26.00			26.00	79.02	78.93	-0.09	104.93	0.33
UP	103.79	14.31	0.72	118.82	128.73	131.87	3.14	250.70	60.10
Uttarakhand		14.82		14.82	18.01	19.24	1.23	34.06	1.85
HP		26.30		26.30	-1.21	-1.88	-0.68	24.42	0.71
J & K		14.68	0.00	14.68	15.54	17.29	1.76	31.98	1.70
Chandigarh				0.00	5.47	5.82	0.35	5.82	0.00
Total	**341.86**	**96.02**	**24.40**	**462.29**	**492.15**	**494.38**	**2.23**	**956.67**	**64.69**

* Shortage furnished by the respective constituent.$ Others include UP Co-generation and JK Diesel

II. B. State's Demand Met in MWs:

UI/OA/PX [OD/Import: (+ve), UD/Export: (-ve)

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	8641	0	53	1333	8222	0	62	1571	8776
Haryana	7867	0	14	1476	7525	0	66	1517	8049
Rajasthan	6061	0	56	-819	5450	0	-358	-336	6339
Delhi	4626	8	115	180	4130	2	-199	96	4961
UP	9984	3430	133	227	11368	2290	55	1041	11558
Uttarakhand	1686	120	216	84	1308	0	146	84	1686
HP	1079	0	-44	-1254	906	0	3	-1398	1198
J&K	1579	100	148	-477	1040	0	73	-849	1588
Chandigarh	263	0	28	0	218	0	8	0	280
Total	**41785**	**3658**	**718**	**750**	**40167**	**2292**	**-143**	**1726**	**42641**

* 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 :

UI [OG:(+ve), UG: (-ve)]

	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	1410	1553	1479	35.67	1486	32.53	3.14
	Rihand I STPS	1000	750	823	807	19.02	792	17.31	1.71
	Rihand II STPS	1000	583	504	829	14.47	603	13.17	1.30
	Rihand III STPS	1000	460	737	406	11.86	494	10.39	1.47
	Dadri I STPS	840	813	813	583	17.17	715	16.25	0.92
	Dadri II STPS	980	970	928	761	20.37	849	20.23	0.13
	Unchahar I TPS	420	399	429	385	9.56	398	8.88	0.68
	Unchahar II TPS	420	400	442	385	9.42	393	8.52	0.90
	Unchahar III TPS	210	198	218	176	4.40	183	4.06	0.33
	ISTPP (Jhajjhar)	1500	950	735	624	15.80	658	16.52	-0.72
	Dadri GPS	830	652	369	369	8.45	352	8.38	0.06
	Anta GPS	419	390	361	250	7.64	318	7.65	-0.02
	Auraiya GPS	663	635	162	137	3.59	150	3.51	0.08
	Dadri Solar	5	1	0	0	0.02	1	0.03	-0.01
	Unchahar Solar	10	3	0	0	0.00	0	0.07	-0.07
	Sub Total (A)	**11297**	**8613**	**8074**	**7191**	**177**	**7393**	**168**	**10**
B. NPC	NAPS	440	271	310	310	6.50	271	6.50	-0.01
	RAPS- B	440	398	444	445	9.58	399	9.55	0.03
	RAPS- C	440	269	229	230	4.94	206	6.45	-1.51
	Sub Total (B)	**1320**	**938**	**983**	**985**	**21.01**	**876**	**22.50**	**-1.49**
C. NHPC	Chamera I HPS	540	534	551	548	13.05	544	12.82	0.23
	Chamera II HPS	300	301	311	305	7.37	307	7.22	0.15
	Chamera III HPS	231	229	232	228	5.51	230	5.50	0.01
	Bairasuil HPS	180	178	181	119	2.44	102	2.53	-0.09
	Salal-HPS	690	663	673	673	16.22	676	15.91	0.31
	Tanakpur-HPS	94	81	86	84	2.02	84	1.94	0.08
	Uri-HPS	480	425	457	427	10.30	429	10.20	0.10
	Uri-II HPS	240	232	244	227	5.65	235	5.56	0.09
	Dhauliganga-HPS	280	207	211	211	5.00	209	4.97	0.04
	Dulhasti-HPS	390	334	395	398	7.94	331	8.01	-0.07
	Sewa-II HPS	120	119	128	0	0.97	40	0.90	0.07
	Parbati 3	390	229	270	135	4.67	195	4.69	-0.02
	Sub Total ©	**3935**	**3532**	**3738**	**3354**	**81**	**3381**	**80**	**1**
D.SJVNL	NJPC	1500	1605	1616	1614	37.74	1572	38.01	-0.27
	Rampur HEP	275	260	292	286	6.28	262	6.23	0.05
	Sub Total (D)	1775	1865	1908	1900	44.02	1834	44.24	-0.22
E. THDC	Tehri HPS	1000	976	980	975	23.34	972	23.25	0.09
	Koteshwar HPS	400	385	400	386	8.57	357	8.55	0.02
	Sub Total (E)	**1400**	**1361**	**1380**	**1361**	**31.91**	**1330**	**31.80**	**0.11**
F. BBMB	Bhakra HPS	1514	971	1247	825	23.34	973	23.31	0.04
	Dehar HPS	990	577	825	580	14.12	588	13.85	0.27
	Pong HPS	396	186	384	132	4.50	188	4.47	0.04
	Sub Total (F)	**2900**	**1734**	**2456**	**1537**	**41.97**	**1749**	**41.62**	**0.35**
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	218	172	4.03	168	4.14	-0.11
	KWHEP HPS(IPP)	1000	0	1200	1200	28.66	1194	28.51	0.15
	Malana Stg-II HPS	100	0	112	112	2.65	111	2.49	0.16
	Shree Cement TPS	300	0	135	125	3.16	132	3.38	-0.22
	Budhil HPS(IPP)	70	0	71	71	1.67	70	1.67	0.00
	Sub Total (G)	1662	0	1736	1680	40.17	1674	40.20	-0.03
H. Total Regional Entities (A-G)		**24289**	**18042**	**20274**	**18008**	**437.65**	**18235**	**428.12**	**9.53**

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	1260	1030	24.78	1033
	Guru Nanak Dev TPS(Bhatinda)	440	225	180	4.21	176
	Guru Hargobind Singh TPS(L.mbt)	920	650	463	12.33	514
	Goindwal(GVK)		0	0	0.00	0
	Rajpura	700	743	735	16.73	697
	Talwandi Saboo	660	0	0	0.00	0
	Thermal (Total)	**3980**	**2878**	**2408**	**58.06**	**2419**
	Total Hydro	1148	891	911	21.26	886
	Total Punjab	**5128**	**3769**	**3319**	**79.31**	**3305**
Haryana	Panipat TPS	1367	441	430	10.61	442
	DCRTPP (Yamuna nagar)	600	550	533	12.49	521
	Faridabad GPS (NTPC)	432	192	184	4.51	188
	RGTPP (khedar) (IPP)	1200	1128	972	25.09	1046
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	1320	611	532	12.60	525
	Thermal (Total)	4944	2922	2651	65.31	2721
	Total Hydro	62	21	19	0.24	10
	Total Haryana	**5006**	**2943**	**2670**	**65.55**	**2731**
Rajasthan	kota TPS	1240	624	884	17.61	734
	suratgarh TPS	1500	1011	1049	24.17	1007
	Chabra TPS	750	435	210	9.55	398
	Dholpur GPS	330	0	96	0.95	40
	Ramgarh GPS	271	130	124	3.33	139
	RAPS A (NPC)	300	0	0	0.00	0
	Barsingsar (NLC)	250	184	180	3.84	160
	Giral LTPS	250	65	59	1.43	60
	Rajwest LTPS (IPP)	1080	370	431	10.22	426
	VSLP LTPS (IPP)	135	0	0	0.00	0
	Kalisindh Thermal	600	364	234	7.23	301
	Kawai(Adani)	1320	407	478	10.39	433
	Thermal (Total)	8026	3590	3745	89	3696
	Total Hydro	550	216	171	4.41	184
	Wind power	2798	885	919	22.95	956
	Biomass	99	18	18	0.44	18
	Solar	730	0	0	0.30	12
	Renewable/Others (Total)	3627	903	937	23.68	987
	Total Rajasthan	**12203**	**4709**	**4853**	**116.80**	**4867**
UP	Anpara TPS	1630	815	843	19.10	796
	Obra TPS	1288	382	370	8.90	371
	Paricha TPS	1140	388	384	8.70	363
	Panki TPS	210	117	104	2.66	111
	Harduaganj TPS	665	384	410	9.20	383
	Tanda TPS (NTPC)	440	281	268	6.81	284
	Roza TPS (IPP)	1200	855	864	20.57	857
	Anpara-C (IPP)	1200	900	896	21.37	890
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	243	320	6.49	270
	Thermal (Total)	8223	4365	4459	103.79	4325
	Vishnuparyag HPS (IPP)	400	436	436	10.08	420
	Other Hydro	527	155	263	4.23	176
	Cogeneration	981	30	30	0.72	30
	Total UP	**10131**	**4986**	**5188**	**118.82**	**4531**
Uttarakhand	Total Hydro	1303	738	511	14.82	617
	Total Uttarakhand	**1303**	**738**	**511**	**14.82**	**617**
Delhi	Rajghat TPS	135	41	42	0.95	39
	Delhi Gas Turbine	282	72	98	1.98	83
	Pragati Gas Turbine	330	280	292	6.98	291
	Rithala GPS	95	0	0	0.00	0
	Bawana GPS	1370	297	296	6.98	291
	Badarpur TPS (NTPC)	705	352	360	9.11	380
	Thermal (Total)	2917	1042	1088	26.00	1083
	Total Delhi	**2917**	**1042**	**1088**	**26.00**	**1083**
HP	Baspa HPS (IPP)	300	330	307	7.46	311
	Malana HPS (IPP)	86	104	105	2.50	104
	Other Hydro	728	683	665	16.35	681
	Total HP	**1114**	**1117**	**1077**	**26.30**	**1096**
J & K	Baglihar HPS (IPP)	450	436	436	10.46	436
	Other Hydro/IPP	436	163	175	4.22	176
	Gas/Diesel/Others	209	0	0	0.00	0
	Total J & K	**1094**	**599**	**611**	**14.68**	612
Total State Control Area Generation		**38896**	**19903**	**19317**	**462.29**	**18842**
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			**4742**	**4359**	**101.09**	**4212**
Total Regional Availability(Gross)		**63186**	**44919**	**41684**	**1001.03**	**41289**

IV. Total Hydro Generation:

Regional Entities Hydro	**11302**	**11012**	**9636**	**234.38**	**9766**
State Control Area Hydro	**5589**	**3737**	**3563**	**96.02**	**3581**
Total Regional Hydro	**16891**	**14749**	**13199**	**330.40**	**13347**

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
	MW	MW	Import	Export	Import	Export	MU
Vindhychal B/B	-100	100	300	500	0.96	5.57	-4.61
Gwalior-Agra (D/C)	1646	1316	2000	0	33.38	0.00	33.38
Zerda-Kankroli	-99	-233	0	357	0.00	5.83	-5.83
Zerda-Bhinmal	-109	-275	0	422	0.00	6.72	-6.72
Malanpur-Auraiya	-91	-37	0	91	0.00	0.83	-0.83
Badod-Kota/Morak	-58	-161	0	220	0.00	2.31	-2.31
Mundra-Mohindergarh(HVDC)	1600	2003	2007	0	43.58	0.00	43.58
Vindhyachal - Rihand	489	400	491	0	11.31	0.00	11.31
Sub Total WR	**3278**	**3113**			**89.23**	**21.26**	**67.97**
Pusauli Bypass	400	400	422	0	9.63	0.00	9.63
MZP- GKP (D/C)	302	332	550	0	8.74	0.00	8.74
Patna-Balia(D/C)	606	406	501	0	9.76	0.00	9.76
B'Sharif-Balia (D/C)	54	100	251	0	2.62	0.00	2.62
Pusauli-Balia	-101	-74	0	110	0.00	1.75	-1.75
Gaya-Fatehpur (765 Kv)	27	-23	149	59	0.89	0.00	0.89
Pusauli-Sahupuri	149	162	183	0	3.55	0.00	3.55
K'nasa-Sahupuri	0	0	0	0	0.00	0.48	-0.48
Son Ngr-Rihand	-26	-26	0	-40	0.00	0.80	-0.80
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sasaram - Fatehpur(765 KV)	53	-31	145	75	0.96	0.00	0.96
Sub Total ER	**1464**	**1246**			**36.14**	**3.03**	**33.11**
Total IR Exch	**4742**	**4359**			**125.38**	**24.29**	**101.09**

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
25.84	3.76	29.61	6.09	8.58	-12.74	8.53	-1.40	1.40

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
21.56	63.56	85.12	33.11	67.97	101.09	11.56	4.41	15.97

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	0.60	4.13	14.27	50.80	61.49	16.08	6.76	1.43	NA

<---------- 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)
50.29	13.03	49.66	14.45	49.99	0.09	0.09	50.25	49.86

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	18:02	403	00:06	0.0	0.0	0.0	0.0
Gorakhpur	400	414	07:58	389	23:17	0.0	0.1	0.0	0.0
Bareilly	400	418	08:01	396	14:43	0.0	0.0	0.0	0.0
Kanpur	400	422	08:01	401	23:08	0.0	0.0	0.9	0.0
Dadri	400	416	05:07	399	14:46	0.0	0.0	0.0	0.0
Ballabhgarh	400	422	05:00	401	14:43	0.0	0.0	3.9	0.0
Bawana	400	419	08:01	401	14:43	0.0	0.0	0.0	0.0
Bassi	400	433	04:01	414	14:41	0.0	0.0	78.9	9.3
Hissar	400	412	08:01	398	14:41	0.0	0.0	0.0	0.0
Moga	400	413	07:06	400	14:34	0.0	0.0	0.0	0.0
Abdullapur	400	417	06:03	396	13:54	0.0	0.0	0.0	0.0
Nalagarh	400	415	06:02	404	11:47	0.0	0.0	0.0	0.0
Kishenpur	400	416	08:03	407	14:18	0.0	0.0	0.0	0.0
Wagoora	400	409	04:40	398	19:50	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	783	08:01	745	23:11	0.0	0.0	0.0	0.0
Balia	765	782	08:01	747	00:05	0.0	0.0	0.0	0.0
Moga	765	801	08:03	773	14:26	0.0	0.0	0.1	0.0
Agra	765	797	05:02	759	22:36	0.0	0.0	0.0	0.0
Bhiwani	765	798	08:02	770	22:37	0.0	0.0	0.0	0.0
Unnao	765	755	18:03	729	23:17	0.0	23.4	0.0	0.0

IX. Reservior Parameters:

Name of Reservior	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	1366	205	0	1333	0	0	32.07	6.33	38.40
Delhi	392	-244	-51	431	-210	-41	11.83	-4.77	7.06
Haryana	1593	-77	0	1445	31	0	36.50	-5.01	31.49
HP	-1171	-227	0	-918	-336	0	-23.67	-7.00	-30.67
J&K	-480	-369	0	-437	-39	0	-10.44	-4.11	-14.55
CHD	0	0	0	0	0	0	0.24	0.16	0.39
Rajasthan	-834	498	1	-820	1	0	-19.91	8.03	-11.88
UP	550	442	49	188	0	40	7.58	5.44	13.02
Uttarakhand	84	0	0	84	0	0	2.01	0.00	2.01
Total	**1499**	**229**	**-1**	**1305**	**-554**	**-1**	**36.20**	**-0.93**	**35.27**

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

State	Bilateral (MW)		IEX (MW)		PXIL (MW)	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Punjab	1378	1292	648	0	0	0
Delhi	727	367	116	-472	0	-51
Haryana	1594	1445	184	-614	0	0
HP	-892	-1171	-227	-438	0	0
J&K	-378	-510	-39	-420	0	0
CHD	29	0	25	0	0	0
Rajasthan	-816	-839	499	-3	1	0
UP	570	188	639	0	49	0
Uttarakhand	84	84	0	0	0	0

XI. System Constraints:

XII. Grid Disturbance / Any Other Significant Event:

XIII. Weather Conditions For 07.08.2014 :

XIV. Synchronisation of new generating units :
0.00

XV. Synchronisation of new 220 / 400 / 765 KV lines and energising of bus / /substation :
1) 400kV Ludhiana-Koldam-II charged first time at 16:10 hrs on 07.08.2014 ideally from Ludhiana upto gantry at Koldam.

XVI. Tripping of lines in pooling stations :

XVII. Complete generation loss in a generating station :

Report for : 07.08.2014 **पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER**