

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)

उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 14.08.2011
Date of Reporting : 15.08.2011

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
29834	1435	31269	49.90	27955	650	28605	50.37	670.1	23.93

* Half hourly (two 15 minutes block--one block each before and after the designated time) average frequency

II. A. State's Load Energy 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	34.01	8.87		42.88	92.68	93.41	0.73	136.29	1.80
Haryana	68.28	0.94		69.21	52.78	46.61	-6.17	115.83	0.00
Rajasthan	66.10	0.23	4.14	70.48	27.09	26.51	-0.58	96.99	0.13
Delhi	22.88			22.88	49.69	49.43	-0.25	72.31	0.00
UP	40.40	14.20	1.20	55.80	135.27	119.74	-15.53	175.54	22.00
Uttarakhand		19.26		19.26	7.75	6.89	-0.86	26.15	0.00
HP		23.01		23.01	-2.95	-4.65	-1.70	18.37	0.00
J & K		14.15	0.00	14.15	14.37	10.32	-4.05	24.47	0.00
Chandigarh				0.00	5.16	4.14	-1.03	4.14	0.00
Total	231.68	80.65	5.34	317.67	381.83	352.41	-29.42	670.08	23.93

* Shortage furnished by the respective constituent.

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	
Punjab	5866	450	-249	1649	5351	0	-292	2336	52.38
Haryana	4969	0	-559	1234	4821	0	-162	1006	21.61
Rajasthan	4204	35	48	-790	4033	0	-30	-635	-15.74
Delhi	3265	0	134	233	2943	0	-52	-92	2.42
UP	7933	950	100	2330	8051	650	-331	2513	48.27
Uttarakhand	1269	0	56	-167	1070	0	30	-144	-3.58
HP	795	0	-56	-1810	638	0	-141	-1803	-42.56
J&K	1329	0	-62	-377	890	0	-196	-377	-9.29
Chandigarh	204	0	-10	37	158	0	-59	14	0.76
Total	29834	1435	-598	2338	27955	650	-1233	2817	54.28

* STOA figures are at sellers boundary & PX figures are at regional boundary.

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	920	994	891	18.60	775	18.94	-0.34	
Rihand II STPS	1000	928	940	883	18.85	785	19.18	-0.34	
Dadri I STPS	840	596	515	405	9.26	386	10.36	-1.10	
Dadri II STPS	980	960	361	337	7.40	308	9.58	-2.18	
Unchahar I TPS	440	349	424	313	7.20	300	7.14	0.06	
Unchahar II TPS	440	344	421	292	6.63	276	6.33	0.30	
Unchahar III TPS	210	175	195	150	3.60	150	3.33	0.27	
ISTPP (Jhajjar)	500	400	304	297	6.38	266	6.72	-0.34	
Dadri GPS	830	783	539	379	10.14	423	10.25	-0.10	
Anta GPS	419	390	254	163	4.76	198	5.06	-0.30	
Auraiya GPS	663	614	315	380	8.61	359	8.64	-0.04	
Sub Total (A)	9322	7909	6848	5813	133.19	5550	136.91	-3.72	
B. NPC	NAPS	440	185	227	230	4.55	190	4.44	0.11
RAPS- B	440	381	421	426	9.18	383	9.14	0.04	
RAPS- C	440	420	469	474	10.03	418	10.08	-0.05	
Sub Total (B)	1320	986	1117	1130	23.76	990	23.66	0.10	
C. NHPC	Chamera I HPS	540	534	540	540	12.69	529	12.82	-0.13
Chamera II HPS	300	34	0	0	0.65	27	0.51	0.14	
Bairasuil HPS	180	179	170	130	3.61	150	4.29	-0.68	
Salal-HPS	690	540	538	537	12.91	538	12.96	-0.05	
Tanakpur-HPS	94	94	94	95	2.23	93	2.24	-0.02	
Uri-HPS	480	250	360	148	5.65	235	6.13	-0.48	
Dhauliganga-HPS	280	277	280	274	6.75	281	6.62	0.13	
Dulhasti-HPS	390	139	414	0	3.14	131	3.30	-0.16	
Sewa-II HPS	120	119	129	57	2.62	109	3.10	-0.48	
Sub Total (C)	3074	2165	2525	1781	50.25	2094	51.98	-1.73	
D.NJPC	Nathpa Jhakri	1500	1600	1609	1599	38.29	1596	38.40	-0.11
Sub Total (D)	1500	1600	1609	1599	38.29	1596	38.40	-0.11	
E. THDC	Tehri HPS	1000	890	955	440	16.85	702	18.53	-1.68
Koteshwar HPS	100	92	92	91	2.16	90	2.20	-0.04	
Sub Total (E)	1100	982	1047	531	19.01	792	20.73	-1.72	
F. BBMB	Bhakra HPS	1480	724	810	662	17.48	728	17.38	0.10
Dehar HPS	990	608	660	620	15.20	633	14.59	0.61	
Pong HPS	396	354	366	366	8.82	368	8.50	0.32	
Sub Total (F)	2866	1686	1836	1648	41.50	1729	40.47	1.03	
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	192	228	4.65	194	3.51	1.14
KWHEP HPS(IPP)	500	0	600	600	11.26	469	14.40	-3.14	
Malana Stg-II HPS	50	0	0	0	0.00	0	0.00	0.00	
Shree Cement TPS	150	0	0	0	0.00	0	0.00	0.00	
Sub Total (G)	892	0	792	828	15.91	663	17.90	-2.00	
H. Total Regional Entities (A-G)	20075	15329	15774	13330	321.91	13413	330.05	-8.14	

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	840.00	750.00	17.69	737	
	Guru Nanak Dev TPS(Bhatinda)	440	105.00	165.00	2.54	106	
	Guru Hargobind Singh TPS(L.mbt)	920	722.00	574.00	13.78	574	
	Thermal (Total)	2620	1667.00	1489.00	34.01	1417	
	Total Hydro	1148	378.00	309.00	8.87	370	
	Total Punjab	3768	2045	1798	42.88	1787	
Haryana	Panipat TPS	1360	1109.00	1150.00	26.75	1115	
	DCRTPP (Yamuna nagar)	600	480.00	457.00	11.46	478	
	Faridabad GPS (NTPC)	432	331.00	322.00	7.21	300	
	RGTPP (khedar) (IPP)	1200	946.00	869.00	22.86	952	
	Magnum Diesel (IPP)	25	0.00	0.00	0.00	0	
	Thermal (Total)	3617	2866.00	2798.00	68.28	2845	
	Total Hydro	62	37.00	29.00	0.94	39	
	Total Haryana	3679	2903	2827	69.21	2884	
Rajasthan	kota TPS	1240	869.00	795.00	18.94	789	
	suratgarh TPS	1500	1322.00	1179.00	27.88	1162	
	Chabra TPS	500	207.00	192.00	4.70	196	
	Dholpur GPS	330	238.00	276.00	6.20	258	
	Ramgarh GPS	113	62.00	62.00	1.61	67	
	RAPS A (NPC)	300	175.00	176.00	4.34	181	
	Barsingsar (NLC)	250	95.00	33.00	1.70	71	
	Giral LTPS (IPP)	250	0.00	63.00	0.74	31	
	Rajwst LTPS (IPP)	135	0.00	0.00	0.00	0	
	VSLP LTPS (IPP)	135	0.00	0.00	0.00	0	
	Thermal (Total)	4753	2968.00	2776.00	66.10	2754	
	Total Hydro	550	9.00	9.00	0.23	10	
	Wind power	1294	94.00	169.00	3.73	155	
	Biomass	71	18.00	18.00	0.42	17	
	Renewable/Others (Total)	1365	112	187	4.14	173	
	Total Rajasthan	6668	3089	2972	70.48	2937	
	UP	Anpara TPS	1630	536	474	11.20	467
		Obra TPS	1442	437	365	7.80	325
Paricha TPS		640	392	378	8.30	346	
Panki TPS		210	80	55	1.50	63	
Harduaganj TPS		375	35	30	0.50	21	
Tanda TPS (NTPC)		440	291	219	6.36	265	
Roza TPS (IPP)		600	203	171	4.74	198	
Anpara-C (IPP)		600	0	0	0.00	0	
Thermal (Total)		5937	1974	1692	40.40	1683	
Vishnuparyag HPS (IPP)		400	436	436	10.45	435	
Other Hydro		527	170	0	3.75	156	
Cogeneration		951	50	50	1.20	50	
Total UP		7815	2630	2178	55.80	1889	
Uttarakhand		Total Hydro	1303	843	799	19.26	802
	Total Uttarakhand	1303	843	799	19.26	802	
Delhi	Rajghat TPS	135	105	107	2.71	113	
	Delhi Gas Turbine	282	76	110	2.25	94	
	Pragati Gas Turbine	330	270	294	6.75	281	
	Rithala GPS	108	38	29	0.90	38	
	Bawana GPS	440	0	0	0.00	0	
	Badarpur TPS (NTPC)	705	465	555	10.28	428	
	Thermal (Total)	2000	954	1095	22.88	953	
	Total Delhi	2000	954	1095	22.88	953	
HP	Baspa HPS (IPP)	330	330	330	7.92	330	
	Malana HPS (IPP)	101	106	103	2.48	103	
	Other Hydro	571	579	502	12.61	525	
	Total HP	1002	1015	935	23	959	
J & K	Baglihar HPS (IPP)	450	442	440	10.57	441	
	Other Hydro	323	140	169	3.58	149	
	Gas/Diesel/Others	183	0	0	0.00	0	
	Total J & K	956	582	609	14.15	590	
Total State Control Area Generation		27191	14061	13213	317.67	12801	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			2348	2413	45.79	1908	
Total Regional Availability(Gross)		47266	32183	28956	685.36	28121	

IV. Total Hydro Generation:

Regional Entities Hydro	9433	7809	6387	164.95	6873
State Control Area Hydro	5365	3034	2690	70.20	2925
Total Regional Hydro	14797	10843	9077	235.15	9798

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	0	-100	150	200	0.76	1.56	-0.80
Gwalior-Agra (D/C)	818	957	957	0	18.96	0.00	18.96
Zerda-Kankroli	0	159	175	0	0.90	0.00	0.90
Zerda-Bhinmal	257	215	285	125	2.01	0.00	2.01
Malanpur-Auraiya	-22	-33	5	33	0.00	0.11	-0.11
Badod-Kota/Morak	-25	36	46	25	0.04	0.00	0.04
Sub Total WR	1028	1234			22.66	1.67	20.99
Pusauli Bypass	42	42	47	112	0.38	0.62	-0.24
MZP- GKP (D/C)	598	612	685	0	13.51	0.00	13.51
Patna-Balia(D/C)	291	188	291	0	4.05	0.00	4.05
B'Sharif-Balia (D/C)	287	277	311	0	5.38	0.00	5.38
Barh-Balia (D/C)	0	0	0	0	0.00	0.00	0.00
Pusauli-Sahupuri	134	80	150	0	2.59	0.00	2.59
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-32	-20	0	35	0.00	0.49	-0.49
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sub Total ER	1320	1179			25.90	1.11	24.80
Total IR Exch	2348	2413			48.56	2.78	45.79

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
11.75	3.73	15.48	25.81	26.70	-3.83	2.83	0.00	0.00

Total IR Schedule (MU)			Total IR Actual (MU)			Net IR UI (MU)		
Through ER	Through WR	Total	Through ER	Through WR	Total	Through ER	Through WR	Total
37.46	29.24	66.70	24.80	20.99	45.79	-12.66	-8.25	-20.91

VI. Frequency Profile

% of Time Frequency								
<48.80	<49.0	<49.20	<49.50	<49.7	49.5 - 50.2	49.7 - 50.2	> 50.00	> 50.2
0.00	0.00	0.00	0.40	3.10	67.00	64.30	63.90	32.60

Frequency (Hz)				Average Frequency	Frequency Variation Index	Std. Dev.	Frequency in 15 Min Block	
Maximum		Minimum					MAX (Hz)	MIN (Hz)
Freq	Time	Freq	Time	Hz				
50.66	6.02	49.35	19.16	50.08	0.48	0.20	50.54	49.68

VII. Voltage profile

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	420	06:00	404	20:58	0.0	0.0	0.0	0.0
Gorakhpur	400	439	06:08	410	21:04	0.0	0.0	59.0	36.2
Bareilly	400	423	08:00	400	19:15	0.0	0.0	3.4	0.0
Kanpur	400	426	09:00	405	21:04	0.0	0.0	14.2	0.0
Dadri	400	416	06:01	403	19:14	0.0	0.0	0.0	0.0
Ballabgarh	400	422	06:08	407	19:14	0.0	0.0	3.0	0.0
Bawana	400	419	06:09	405	19:09	0.0	0.0	0.0	0.0
Bassi	400	427	06:06	409	19:51	0.0	0.0	25.5	0.0
Hissar	400	412	06:02	400	08:44	0.0	0.0	0.0	0.0
Moga	400	419	03:06	404	10:43	0.0	0.0	0.0	0.0
Abdullapur	400	415	06:02	287	18:41	0.1	0.1	0.0	0.0
Nalagarh	400	417	04:04	408	15:38	0.0	0.0	0.0	0.0
Kishenpur	400	418	00:13	395	19:39	0.0	0.0	0.0	0.0
Wagoora	400	0	00:00	9999	00:00	0.0	0.0	0.0	0.0

VIII. 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 (m³/s)	Usage (m³/s)
Bhakra	513.59	445.62	504.86	1298.95	504.92	1312.37	1567.99	490.02
Pong	426.72	384.05	421.46	961.02	412.45	577.87	3887.33	664.26
Tehri	829.79	740.04	799.50	592.30	NA	NA	842.80	799.50
Koteshwar	612.50	598.50	607.90	3.54	NA	NA	417.00	145.00
Chamera-I	760.00	748.75	756.00	11.09	756.00	NA	684.71	344.85
Rihand	268.22	252.98	261.95	415.40	256.21	125.00	NA	NA
RPS	352.80	343.81	347.78	NA	347.76	NA	347.76	0.00
Jawahar Sagar	298.70	295.78	297.27	NA	297.30	NA	0.00	44.29
RSD	527.91	487.91	513.98	NA	518.93	NA	1204.57	143.42

IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

XI. Weather Conditions For 14.08.2011 :

1 : Rain in Punjab,Haryana , Raj , UP ,HP,J&K , Uttranchal & NCR.

XII. Synchronisation of new generating units :

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

XIV. Tripping of lines in pooling stations :

XV. Complete generation loss in a generating station :

Report for : 14.08.2011

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER