

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)

उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 24.08.2011
Date of Reporting : 25.08.2011

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
33658	2080	35738	49.86	32418	650	33068	50.10	767.3	25.67

* 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	53.29	13.57		66.86	110.41	111.62	1.20	178.48	1.80
Haryana	65.10	0.66		65.75	45.17	40.21	-4.97	105.96	0.00
Rajasthan	60.89	0.90	11.96	73.74	36.96	38.82	1.86	112.56	0.46
Delhi	25.66			25.66	63.94	60.32	-3.61	85.98	0.01
UP	48.55	15.63	0.00	64.18	132.96	141.07	8.12	205.26	23.32
Uttarakhand		19.77		19.77	10.13	7.61	-2.52	27.39	0.08
HP		24.09		24.09	-1.96	-2.07	-0.11	22.03	0.00
J & K		14.45	0.00	14.45	13.60	9.95	-3.65	24.40	0.00
Chandigarh				0.00	6.05	5.30	-0.75	5.30	0.00
Total	253.48	89.07	11.96	354.51	417.26	412.82	-4.44	767.33	25.67

* 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	7300	450	-319	1876	8183	0	335	1930	44.71
Haryana	5048	0	-125	658	4362	0	-384	658	15.07
Rajasthan	4581	73	-100	-272	5113	0	573	-272	-6.54
Delhi	3963	2	-106	557	2967	0	-210	599	14.17
UP	8979	1475	627	1727	8851	650	97	1727	41.44
Uttarakhand	1250	80	-158	-100	1111	0	-204	-100	-2.40
HP	918	0	-3	-1814	798	0	-79	-1815	-42.31
J&K	1367	0	65	-375	836	0	-255	-375	-9.24
Chandigarh	252	0	-11	54	197	0	-29	54	1.54
Total	33658	2080	-130	2310	32418	650	-156	2405	56.43

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

III. Regional Entities :

Entity	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	1693	1955	1495	38.36	1599	37.72	0.64
	Rihand I STPS	1000	937	1029	1026	21.25	885	21.21	0.04
	Rihand II STPS	1000	478	517	519	11.00	458	10.89	0.11
	Dadri I STPS	840	595	598	421	10.88	453	11.06	-0.18
	Dadri II STPS	980	563	473	789	12.30	512	13.26	-0.96
	Unchahar I TPS	440	301	336	319	7.07	295	7.04	0.04
	Unchahar II TPS	440	303	332	335	6.90	288	6.81	0.10
	Unchahar III TPS	210	152	166	175	3.64	152	3.39	0.25
	ISTPP (Jhajjar)	500	0	0	0	0.00	0	0.00	0.00
	Dadri GPS	830	751	696	440	12.16	507	12.45	-0.29
	Anta GPS	419	390	382	293	7.38	308	7.45	-0.07
	Auraiya GPS	663	609	472	429	10.36	432	10.60	-0.25
	Sub Total (A)	9322	6773	6956	6241	141.31	5888	141.88	-0.58
	B. NPC	NAPS	440	0	0	0	0.00	0	0.00
RAPS- B		440	192	212	216	4.62	193	4.61	0.01
RAPS- C		440	420	465	468	9.03	376	10.08	-1.05
Sub Total (B)		1320	612	677	684	13.65	569	14.69	-1.03
C. NHPC	Chamera I HPS	540	534	540	540	12.80	534	12.82	-0.01
	Chamera II HPS	300	297	302	299	7.15	298	7.18	-0.03
	Bairasuil HPS	180	179	179	40	2.92	122	2.89	0.03
	Salal-HPS	690	520	516	522	12.45	519	12.48	-0.03
	Tanakpur-HPS	94	94	94	94	2.26	94	2.24	0.02
	Uri-HPS	480	255	360	238	6.03	251	5.89	0.14
	Dhauliganga-HPS	280	277	277	278	6.62	276	6.68	-0.06
	Dulhasti-HPS	390	387	410	193	8.39	350	8.55	-0.16
	Sewa-II HPS	120	111	85	73	1.99	83	2.02	-0.04
	Sub Total (C)	3074	2652	2763	2277	60.61	2525	60.76	-0.15
D.NJPC	Natpha Jhakri	1500	1600	1620	1613	38.46	1602	38.40	0.06
	Sub Total (D)	1500	1600	1620	1613	38.46	1602	38.40	0.06
E. THDC	Tehri HPS	1000	1040	1042	1000	24.48	1020	24.50	-0.02
	Koteshwar HPS	100	94	96	95	2.27	95	2.26	0.01
	Sub Total (E)	1100	1134	1138	1095	26.74	1114	26.76	-0.01
F. BBMB	Bhakra HPS	1480	1227	1258	1257	30.10	1254	29.45	0.65
	Dehar HPS	990	602	825	660	14.75	615	14.45	0.30
	Pong HPS	396	354	366	366	8.84	368	8.50	0.34
	Sub Total (F)	2866	2183	2449	2283	53.69	2237	52.39	1.30
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	143	143	3.11	130	2.79	0.32
	KWHEP HPS(IPP)	500	0	600	600	14.30	596	14.22	0.08
	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	743	743	17.41	725	17.01	0.40
H. Total Regional Entities (A-G)	20075	14955	16346	14936	351.87	14661	351.89	-0.02	

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	1250.00	1245.00	27.23	1134
	Guru Nanak Dev TPS(Bhatinda)	440	291.00	293.00	6.12	255
	Guru Hargobind Singh TPS(L.mbt)	920	936.00	936.00	19.95	831
	Thermal (Total)	2620	2477.00	2474.00	53.29	2221
	Total Hydro	1148	711.00	551.00	13.57	565
	Total Punjab	3768	3188	3025	66.86	2786
Haryana	Panipat TPS	1360	1048.00	1055.00	24.43	1018
	DCRTPP (Yamuna nagar)	600	541.00	567.00	12.47	520
	Faridabad GPS (NTPC)	432	385.00	349.00	8.39	350
	RGTPP (khedar) (IPP)	1200	776.00	738.00	19.80	825
	Magnum Diesel (IPP)	25	0.00	0.00	0.00	0
	Thermal (Total)	3617	2750.00	2709.00	65.10	2712
	Total Hydro	62	27.00	22.00	0.66	27
	Total Haryana	3679	2777	2731	65.75	2740
Rajasthan	kota TPS	1240	669.00	625.00	15.65	652
	suratgarh TPS	1500	1133.00	996.00	24.86	1036
	Chabra TPS	500	215.00	213.00	5.09	212
	Dholpur GPS	330	274.00	280.00	6.45	269
	Ramgarh GPS	113	62.00	62.00	1.61	67
	RAPS A (NPC)	300	173.00	177.00	4.29	179
	Barsingsar (NLC)	250	45.00	0.00	0.67	28
	Giral LTPS (IPP)	250	116.00	91.00	2.27	95
	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	2687.00	2444.00	60.89	2537
	Total Hydro	550	91.00	50.00	0.90	37
	Wind power	1294	633.00	546.00	11.54	481
	Biomass	71	18.00	18.00	0.42	18
	Renewable/Others (Total)	1365	651	564	11.96	498
	Total Rajasthan	6668	3429	3058	73.74	3073
	UP	Anpara TPS	1630	870	802	18.70
Obra TPS		1442	325	332	6.80	283
Paricha TPS		640	383	396	8.50	354
Panki TPS		210	70	72	1.40	58
Harduaganj TPS		375	0	0	0.00	0
Tanda TPS (NTPC)		440	294	291	6.82	284
Roza TPS (IPP)		600	279	275	6.33	264
Anpara-C (IPP)		600	0	0	0.00	0
Thermal (Total)		5937	2221	2168	48.55	2023
Vishnuparyag HPS (IPP)		400	436	436	10.46	436
Other Hydro		527	295	0	5.18	216
Cogeneration		951	0	0	0.00	0
Total UP		7815	2952	2604	64.18	2239
Uttarakhand		Total Hydro	1303	955	929	19.77
	Total Uttarakhand	1303	955	929	19.77	824
Delhi	Rajghat TPS	135	105	105	2.72	113
	Delhi Gas Turbine	282	112	113	2.87	120
	Pragati Gas Turbine	330	296	304	7.47	311
	Rithala GPS	108	39	29	1.17	49
	Bawana GPS	440	0	0	0.00	0
	Badarpur TPS (NTPC)	705	670	400	11.43	476
	Thermal (Total)	2000	1222	951	25.66	1069
	Total Delhi	2000	1222	951	25.66	1069
HP	Baspa HPS (IPP)	330	330	330	7.92	330
	Malana HPS (IPP)	101	101	106	2.38	99
	Other Hydro	571	583	569	13.79	575
	Total HP	1002	1014	1005	24	1004
J & K	Baglihar HPS (IPP)	450	442	440	10.59	441
	Other Hydro	323	143	174	3.86	161
	Gas/Diesel/Others	183	0	0	0.00	0
	Total J & K	956	585	614	14.45	602
Total State Control Area Generation		27191	16122	14917	354.51	14336
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			3340	3401	83.05	3460
Total Regional Availability(Gross)		47266	35808	33254	789.43	32457

IV. Total Hydro Generation:

Regional Entities Hydro	9433	8713	8011	196.91	8205
State Control Area Hydro	5365	3678	3171	78.61	3276
Total Regional Hydro	14797	12391	11182	275.52	11480

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	500	500	0	10.69	0.00	10.69
Gwalior-Agra (D/C)	898	1030	1274	0	25.88	0.00	25.88
Zerda-Kankroli	58	170	229	78	2.11	0.00	2.11
Zerda-Bhinmal	365	281	473	0	7.97	0.00	7.97
Malanpur-Auraiya	-1	35	28	0	0.60	0.00	0.60
Badod-Kota/Morak	0	0	0	0	0.00	0.00	0.00
Sub Total WR	1820	2016			47.26	0.00	47.26
Pusauli Bypass	9	-121	39	123	0.12	1.24	-1.11
MZP- GKP (D/C)	882	708	1014	0	19.07	0.00	19.07
Patna-Balia(D/C)	385	402	455	0	9.00	0.00	9.00
B'Sharif-Balia (D/C)	247	299	335	0	6.16	0.00	6.16
Barh-Balia (D/C)	0	0	0	0	0.00	0.00	0.00
Pusauli-Sahupuri	32	127	156	0	3.26	0.00	3.26
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-35	-30	0	35	0.00	0.60	-0.60
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sub Total ER	1520	1385			37.62	1.83	35.79
Total IR Exch	3340	3401			84.88	1.83	83.05

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
15.14	3.66	18.80	24.74	31.34	-2.82	7.08	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
40.72	37.76	78.48	35.79	47.26	83.05	-4.94	9.51	4.57

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	1.20	6.20	97.00	92.00	39.60	1.80

----- 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				
50.29	10.08	49.31	20.30	49.95	0.23	0.14	50.29	49.73

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	418	08:47	401	19:14	0.0	0.0	0.0	0.0
Gorakhpur	400	436	05:15	408	19:02	0.1	0.1	73.2	16.1
Bareilly	400	424	08:00	395	19:17	0.0	0.0	4.2	0.0
Kanpur	400	424	09:00	397	19:16	0.0	0.0	3.9	0.0
Dadri	400	416	08:04	393	19:18	0.0	0.0	0.0	0.0
Ballabgarh	400	422	08:04	397	19:16	0.0	0.0	2.0	0.0
Bawana	400	418	08:04	394	19:16	0.0	0.0	0.0	0.0
Bassi	400	430	02:51	402	19:16	0.0	0.0	38.1	0.0
Hissar	400	412	03:10	387	20:46	0.0	0.1	0.0	0.0
Moga	400	413	23:51	401	19:13	0.0	0.0	0.0	0.0
Abdullapur	400	414	03:07	393	20:01	0.1	0.1	0.0	0.0
Nalagarh	400	419	07:02	400	16:14	0.0	0.0	0.0	0.0
Kishenpur	400	409	00:56	395	19:16	0.0	0.0	0.0	0.0
Wagoora	400	411	02:53	388	19:16	0.0	1.3	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	509.12	1500.16	510.22	1560.04	1376.17	929.78
Pong	426.72	384.05	422.13	990.81	420.11	889.22	1389.02	495.97
Tehri	829.79	740.04	811.95	842.28	NA	NA	719.38	558.00
Koteshwar	612.50	598.50	607.70	3.54	NA	NA	553.00	148.00
Chamera-I	760.00	748.75	757.57	13.85	756.00	NA	389.98	350.40
Rihand	268.22	252.98	263.38	504.00	256.52	137.50	NA	NA
RPS	352.80	343.81	348.03	NA	349.18	NA	NA	0.00
Jawahar Sagar	298.70	295.78	297.00	NA	298.03	NA	NA	0.00
RSD	527.91	487.91	519.25	NA	521.16	NA	483.91	161.80

IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

XI. Weather Conditions For 24.08.2011 :

1. Hot & Humid Weather/ Scattered Rain in NR.

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 : 24.08.2011

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER