

पॉवर सिस्टम ऑपरेशन कापोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)

उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 08.07.2011
Date of Reporting : 09.07.2011

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
33090	1590	34680	50.01	35932	300	36232	50.17	834.8	20.97

* 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		Actual Drawal		UI [OD:(+ve), UD:(-ve)]	
	Thermal	Hydro	Renewable/others	Total	(Net MU)	(Net MU)	(Net MU)	(Net MU)	(MU)	Shortages *
Punjab	53.38	19.67		73.05	102.08	102.33	0.25	175.37	7.30	
Haryana	72.10	0.79		72.89	64.00	51.16	-12.84	124.05	0.00	
Rajasthan	71.07	0.00	12.75	83.81	43.74	51.31	7.57	135.12	0.00	
Delhi	24.32			24.32	71.77	67.76	-4.01	92.07	0.02	
UP	68.20	13.45	1.20	82.85	133.99	138.69	4.70	221.54	13.51	
Uttarakhand		18.66		18.66	9.50	12.06	2.56	30.72	0.14	
HP		22.82		22.82	-1.05	-0.25	0.81	22.58	0.00	
J & K		15.37	0.00	15.37	14.47	12.86	-1.60	28.24	0.00	
Chandigarh				0.00	5.92	5.13	-0.79	5.13	0.00	
Total	289.06	90.76	13.95	393.76	444.41	441.06	-3.35	834.82	20.97	

* 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	STOA/PX transaction	
Punjab	7350	400	-115	1664	7523	200	-236	2247	43.78	
Haryana	5334	0	-458	1208	5080	0	-1133	1272	27.44	
Rajasthan	4662	0	51	-528	5882	0	765	-68	0.71	
Delhi	3946	0	-123	445	3644	0	-232	220	8.66	
UP	8226	1050	-256	1723	10428	100	1099	1723	41.36	
Uttarakhand	1256	140	324	-100	1218	0	-22	-100	-2.40	
HP	833	0	-61	-1697	863	0	-50	-1707	-40.63	
J&K	1257	0	-69	-497	1093	0	-47	-497	-12.17	
Chandigarh	226	0	-21	26	201	0	-36	5	0.81	
Total	33090	1590	-728	2244	35932	300	108	3095	67.56	

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

III. Regional Entities :

Station/ Constituent	Inst. Capacity (Effective) MW	Declared Capacity(MW)	Peak MW (Gross)	Off Peak MW (Gross)	Energy (Net MU)	Average Sentout(MW)	UI [OG:(+ve), UG:(-ve)]	
							Schedule Net MU	UI Net MU
A. NTPC								
Singrauli STPS	2000	1705	1790	1837	39.93	1664	39.70	0.23
Rihand I STPS	1000	960	1045	1047	21.88	912	21.65	0.23
Rihand II STPS	1000	565	909	515	13.25	552	12.87	0.38
Dadri I STPS	840	800	567	592	14.29	595	14.56	-0.27
Dadri II STPS	980	960	742	798	18.54	772	19.79	-1.25
Unchahar I TPS	440	364	431	428	8.24	343	8.47	-0.23
Unchahar II TPS	440	578	394	387	8.55	356	8.32	0.23
Unchahar III TPS	210	203	221	219	4.53	189	4.54	0.00
I-STPP (Jhajjar)	500	404	357	409	7.51	313	7.86	-0.35
Dadri GPS	830	589	486	526	10.97	457	11.20	-0.23
Anta GPS	419	392	283	288	6.99	291	7.11	-0.12
Auraiya GPS	663	612	491	561	12.19	508	11.95	0.25
Sub Total (A)	9322	8132	7716	7607	166.86	6952	168.00	-1.14
B. NPC								
NAPS	440	186	222	223	4.44	185	4.46	-0.03
RAPS- B	440	386	431	429	9.19	383	9.26	-0.08
RAPS- C	440	236	0	463	5.25	219	5.67	-0.42
Sub Total (B)	1320	808	653	1115	18.88	787	19.40	-0.52
C. NHPC								
Chamera I HPS	540	536	540	540	12.76	532	12.79	-0.04
Chamera II HPS	300	297	303	302	7.17	299	7.27	-0.10
Bairasuil HPS	180	127	120	80	1.94	81	2.10	-0.16
Salal-HPS	690	616	624	623	14.74	614	14.77	-0.03
Tanakpur-HPS	94	91	90	95	2.14	89	2.24	-0.11
Uri-HPS	480	476	479	478	11.52	480	11.52	0.00
Dhauliganga-HPS	280	277	282	265	6.60	275	6.71	-0.11
Dulhasti-HPS	390	387	409	254	9.18	382	9.38	-0.20
Sewa-II HPS	120	77	40	19	0.55	23	0.72	-0.18
Sub Total (C)	3074	2884	2887	2656	66.57	2774	67.50	-0.93
D. NJPC								
Nathpa Jhakri	1500	1600	1615	1618	38.18	1591	38.10	0.08
Sub Total (D)	1500	1600	1615	1618	38.18	1591	38.10	0.08
E. THDC								
Tehri HPS	1000	690	695	691	16.06	669	16.00	0.06
Koteshwar HPS	100	33	100	0	0.75	31	0.75	0.00
Sub Total (E)	1100	723	795	691	16.81	700	16.75	0.06
F. BBMB								
Bhakra HPS	1480	1013	1075	967	24.98	1041	24.31	0.67
Dehar HPS	990	602	792	620	14.49	604	14.46	0.04
Ponq HPS	396	217	366	180	5.37	224	5.21	0.16
Sub Total (F)	2866	1832	2233	1767	44.84	1868	43.98	0.86
G. IPP(s)/JV(s)								
ADHPL HPS(IPP)	192	0	204	134	3.79	158	3.32	0.47
KWHEP HPS(IPP)	500	0	600	600	14.29	596	14.25	0.04
Sub Total (G)	692	0	804	734	18.08	753	17.57	0.51
H. Total Cental (A-G)	19875	15979	16703	16187	370.21	15426	371.29	-1.08

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	1260.00	1160.00	27.24	1135	
	Guru Nanak Dev TPS(Bhatinda)	440	291.00	273.00	5.99	250	
	Guru Hargobind Singh TPS(L.mbt)	920	944.00	839.00	20.14	839	
	Thermal (Total)	2620	2495.00	2272.00	53.38	2224	
	Total Hydro	1148	873.00	753.00	19.67	820	
	Total Punjab	3768	3368	3025	73.05	3044	
Haryana	Panipat TPS	1360	1152.00	1169.00	28.05	1169	
	DCRTPP (Yamuna nagar)	600	402.00	486.00	11.08	462	
	Faridabad GPS (NTPC)	432	432.00	407.00	8.67	361	
	RGTPP (khedar) (IPP)	1200	948.00	997.00	24.31	1013	
	Magnum Diesel (IPP)	25	0.00	0.00	0.00	0	
	Thermal (Total)	3617	2934.00	3059.00	72.10	3004	
	Total Hydro	62	22.00	22.00	0.79	33	
		Total Haryana	3679	2956	3081	72.89	3037
Rajasthan	kota TPS	1240	813.00	584.00	15.55	648	
	suratgarh TPS	1500	1285.00	1305.00	31.12	1297	
	Chabra TPS	500	0.00	216.00	2.49	104	
	Dholpur GPS	330	273.00	260.00	6.73	280	
	Ramgarh GPS	113	64.00	59.00	1.55	64	
	RAPS A (NPC)	300	173.00	171.00	4.26	178	
	Barsingsar (NLC)	250	0.00	0.00	0.00	0	
	Giral LTPS (IPP)	250	144.00	115.00	2.65	110	
	Rajwest LTPS (IPP)	135	0.00	0.00	0.00	0	
	VSLP LTPS (IPP)	135	35.00	35.00	6.73	280	
	Thermal (Total)	4753	2787.00	2745.00	71.07	2961	
	Total Hydro	550	0.00	0.00	0.00	0	
	Wind power	1294	488.00	542.00	12.06	503	
	Biomass	71	29.00	29.00	0.68	28	
	Renewable/Others (Total)	1365	517	571	12.75	531	
		Total Rajasthan	6668	3304	3316	83.81	3492
	UP	Anpara TPS	1630	1520	1509	32.82	1367
Obra TPS		1442	262	351	6.27	261	
Paricha TPS		640	345	332	7.26	302	
Panki TPS		210	165	165	3.39	141	
Harduaganj TPS		375	0	0	0.00	0	
Tanda TPS (NTPC)		440	290	289	6.87	286	
Roza TPS (IPP)		600	540	547	11.60	483	
Thermal (Total)		5337	3122	3193	68.20	2842	
Vishnuparyag HPS (IPP)		400	0	437	10.47	436	
Other Hydro		527	43	0	2.99	124	
Cogeneration		951	50	50	1.20	50	
		Total UP	7215	3215	3680	82.85	3016
Uttarakhand		Total Hydro	1303	523	834	18.66	777
		Total Uttarakhand	1303	523	834	18.66	777
Delhi	Rajghat TPS	135	93	95	2.22	93	
	Delhi Gas Turbine	282	143	148	3.53	147	
	Praagati Gas Turbine	330	301	296	7.22	301	
	Rithala GPS	108	30	29	0.81	34	
	Bawana GPS	440	0	0	0.00	0	
	Badarpur TPS (NTPC)	705	495	495	10.54	439	
	Thermal (Total)	2000	1062	1063	24.32	1013	
	Total Delhi	2000	1062	1063	24.32	1013	
HP	Baspa HPS (IPP)	300	330	330	7.93	330	
	Malana HPS (IPP)	86	104	105	2.51	104	
	Other Hydro	584	501	530	12.39	516	
		Total HP	970	935	965	22.82	951
J & K	Baglihar HPS (IPP)	450	442	442	10.60	442	
	Other Hydro	323	166	49	4.78	199	
	Gas/Diesel/Others	183	0	0	0.00	0	
		Total J & K	956	608	491	15.37	641
Total State Generation		26559	15971	16455	393.76	15971	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			2413	4068	81.02	3376	
Total Regional Availability(Gross)		46434	35087	36710	845.00	34772	

IV. Total Hydro Generation:

Central +BBMB Hydro	8541	7530	6732	166.40	6933
State Hydro	4497	3589	3410	83.00	3458
Regional Hydro	13037	11119	10141	249.40	10392

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	11.97	0.00	11.97
Gwalior-Agra (D/C)	736	1171	1263	0	24.12	0.00	24.12
Zerda-Kankroli	0	0	0	0	0.00	0.00	0.00
Zerda-Bhinmal	-91	203	397	187	1.72	0.00	1.72
Malanpur-Auraiya	-65	-7	0	97	0.00	0.37	-0.37
Badod-Kota/Morak	160	186	202	0	2.29	0.00	2.29
Sub Total WR	1080	1867			37.81	0.37	37.44
Pusauli Bypass	-5	123	223	248	2.08	0.37	1.71
MZP- GKP (D/C)	886	1222	1320	0	25.68	0.00	25.68
Patna-Balia(D/C)	-160	-154	0	160	0.00	3.38	-3.38
B'Sharif-Balia (D/C)	454	829	945	0	15.25	0.00	15.25
Pusauli-Sahupuri	158	181	195	0	4.32	0.00	4.32
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	0	0	0	0	0.00	0.00	0.00
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sub Total ER	1333	2201			47.33	3.75	43.58
Total IR Exch	2413	4068			85.14	4.12	81.02

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
20.13	3.75	23.88	24.56	36.58	2.80	1.02	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
51.24	37.26	88.50	43.58	37.44	81.02	-7.66	0.18	-7.48

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	0.10	2.40	96.10	93.80	44.10	3.80

<----- 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	10.00	49.49	14.19	49.98	0.16	0.13	50.30	49.79

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	411	17:55	399	00:08	0.0	0.0	0.0	0.0
Gorakhpur	400	426	08:04	399	01:22	0.0	0.0	67.0	18.9
Bareilly	400	420	17:20	393	23:10	0.0	0.0	0.0	0.0
Kanpur	400	420	17:31	397	23:09	0.0	0.0	0.0	0.0
Dadri	400	412	07:29	398	00:05	0.0	0.0	0.0	0.0
Ballabgarh	400	417	17:31	401	00:06	0.0	0.0	0.0	0.0
Bawana	400	412	13:19	397	10:56	0.0	0.0	0.0	0.0
Bassi	400	431	17:34	408	10:56	0.0	0.0	25.1	0.3
Hissar	400	409	13:28	396	10:31	0.0	0.0	0.0	0.0
Moga	400	414	15:56	403	00:08	0.0	0.0	0.0	0.0
Abdullapur	400	412	07:07	398	09:45	0.0	0.0	0.0	0.0
Nalagarh	400	413	07:06	401	09:34	0.0	0.0	0.0	0.0
Kishenpur	400	414	02:51	405	05:47	0.0	0.0	0.0	0.0
Wagoora	400	410	03:05	394	06:50	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	488.82	700.02	471.01	282.71	1255.62	848.26
Pong	426.72	384.05	412.13	566.84	393.35	97.37	641.89	335.58
Tehri	829.79	740.04	763.75	4.65	NA	NA	604.17	488.00
Koteshwar	612.50	598.50	NA	NA	NA	NA	NA	NA
Chamera-I	760.00	748.75	756.55	12.96	754.58	NA	355.78	346.99
Rihand	268.22	252.98	256.64	NA	253.72	NA	NA	NA
RPS	352.80	343.81	NA	NA	NA	NA	NA	NA
Jawahar Sagar	399.89	381.00	NA	NA	NA	NA	NA	NA
RSD	527.91	487.91	NA	NA	NA	NA	NA	NA

IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

XI. Weather Conditions For 08.07.2011 :

1 : Partil rains and cloudy weather 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 : 08.07.2011

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER