

पॉवर सिस्टम ऑपरेशन कापोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)

उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 14.07.2011
Date of Reporting : 15.07.2011

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
35216	1590	36806	49.76	36093	631	36724	50.00	847.2	16.93

* Half hourly (two 15 minutes block-one block 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	Consumption	Shortages *
	Thermal	Hydro	Renewable/others	Total	(Net MU)	(Net MU)	(Net MU)	(Net MU)	(MU)	(MU)
Punjab	52.40	20.35		72.75	112.47	109.56	-2.91	182.31	6.08	
Haryana	58.77	0.79		59.56	74.93	73.21	-1.72	132.78	1.59	
Rajasthan	64.44	0.10	10.23	74.77	51.02	56.29	5.27	131.06	0.00	
Delhi	22.93			22.93	83.11	75.49	-7.62	98.42	0.06	
UP	60.24	13.96	1.20	75.40	138.37	144.86	6.49	220.27	9.07	
Uttarakhand		20.77		20.77	9.75	8.32	-1.43	29.09	0.03	
HP		22.83		22.83	-0.84	-0.41	0.43	22.41	0.10	
J & K		14.79	0.00	14.79	12.91	10.23	-2.68	25.02	0.00	
Chandigarh				0.00	6.41	5.89	-0.52	5.89	0.00	
Total	258.78	93.59	11.43	363.80	488.13	483.44	-4.69	847.24	16.93	

* 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	STOA/PX transaction	Day Energy MU
Punjab	7768	460	-134	1954	8148	0	-141	2610		52.61
Haryana	5626	0	-88	1196	5445	371	-29	1245		27.59
Rajasthan	5240	0	244	263	5368	0	112	91		5.76
Delhi	4190	0	-240	400	3849	0	-468	305		9.20
UP	8719	1050	-146	1724	10195	260	1040	1724		41.33
Uttarakhand	1363	80	70	-100	1144	0	-188	-100		-2.40
HP	764	0	-199	-1635	888	0	-37	-1653		-39.48
J&K	1284	0	-30	-547	840	0	-160	-596		-13.67
Chandigarh	262	0	-26	29	216	0	-12	9		0.83
Total	35216	1590	-549	3284	36093	631	117	3634		81.77

* 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	1711	1854	1844	41.44	1727	41.06	0.39
Rihand I STPS	1000	960	1044	1054	23.20	967	23.04	0.16
Rihand II STPS	1000	970	1042	1040	23.40	975	23.28	0.12
Dadri I STPS	840	800	742	868	17.95	748	17.62	0.32
Dadri II STPS	980	960	764	1022	22.11	921	22.73	-0.61
Unchahar I TPS	440	402	437	432	9.65	402	9.64	0.01
Unchahar II TPS	440	594	436	425	9.52	397	9.54	-0.02
Unchahar III TPS	210	196	214	213	4.71	196	4.70	0.00
I-STPP (Jhajjar)	500	460	477	423	9.54	398	11.01	-1.47
Dadri GPS	830	473	384	377	8.66	361	8.92	-0.26
Anta GPS	419	385	310	386	8.19	341	8.25	-0.07
Auraiya GPS	663	602	634	625	13.81	575	13.29	0.52
Sub Total (A)	9322	8513	8338	8709	192.18	8008	193.10	-0.92
B. NPC								
NAPS	440	183	222	219	4.44	185	4.39	0.05
RAPS- B	440	385	428	428	9.22	384	9.24	-0.02
RAPS- C	440	410	403	468	9.08	379	9.84	-0.76
Sub Total (B)	1320	978	1053	1115	22.74	948	23.47	-0.73
C. NHPC								
Chamera I HPS	540	534	540	540	12.81	534	12.82	-0.02
Chamera II HPS	300	297	302	302	7.19	300	7.22	-0.03
Bairasuil HPS	180	164	179	60	2.59	108	2.88	-0.29
Salal-HPS	690	625	626	626	15.00	625	14.98	0.02
Tanakpur-HPS	94	92	95	94	1.96	82	2.18	-0.21
Uri-HPS	480	406	451	357	9.51	396	9.79	-0.28
Dhauliganga-HPS	280	277	203	275	6.66	278	6.66	0.00
Dulhasti-HPS	390	387	407	361	9.00	375	9.18	-0.18
Sewa-II HPS	120	79	80	0	0.73	30	0.79	-0.06
Sub Total (C)	3074	2861	2883	2615	65.45	2727	66.51	-1.06
D. NJPC								
Nathpa Jhakri	1500	1593	1618	1611	38.45	1602	38.22	0.23
Sub Total (D)	1500	1593	1618	1611	38.45	1602	38.22	0.23
E. THDC								
Tehri HPS	1000	666	730	732	15.34	639	15.25	0.09
Koteshwar HPS	100	0	0	0	0.00	0	0.00	0.00
Sub Total (E)	1100	666	730	732	15.34	639	15.25	0.09
F. BBMB								
Bhakra HPS	1480	1047	1077	1076	25.61	1067	25.13	0.49
Dehar HPS	990	608	660	580	15.10	629	14.59	0.51
Pong HPS	396	293	366	246	7.22	301	7.04	0.18
Sub Total (F)	2866	1948	2103	1902	47.93	1997	46.75	1.19
G. IPP(s)/JV(s)								
ADHPL HPS(IPP)	192	0	178	118	3.15	131	3.01	0.14
KWHEP HPS(IPP)	500	0	600	600	13.91	579	14.23	-0.32
Sub Total (G)	692	0	778	718	17.06	711	17.24	-0.18
H. Total Cental (A-G)	19875	16558	17503	17402	399.15	16631	400.54	-1.39

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	1255.00	1220.00	26.40	1100	
	Guru Nanak Dev TPS(Bhatinda)	440	280.00	280.00	5.78	241	
	Guru Hargobind Singh TPS(L.mbt)	920	934.00	930.00	20.22	843	
	Thermal (Total)	2620	2469.00	2430.00	52.40	2183	
	Total Hydro	1148	967.00	758.00	20.35	848	
	Total Punjab	3768	3436	3188	72.75	3031	
Haryana	Panipat TPS	1360	1165.00	1168.00	28.08	1170	
	DCRTPP (Yamuna nagar)	600	264.00	239.00	7.06	294	
	Faridabad GPS (NTPC)	432	327.00	402.00	8.59	358	
	RGTPP (khedar) (IPP)	1200	811.00	259.00	15.05	627	
	Magnum Diesel (IPP)	25	0.00	0.00	0.00	0	
	Thermal (Total)	3617	2567.00	2068.00	58.77	2449	
	Total Hydro	62	18.00	39.00	0.79	33	
	Total Haryana	3679	2585	2107	59.56	2482	
Rajasthan	kota TPS	1240	764.00	574.00	15.73	655	
	suratgarh TPS	1500	1203.00	1274.00	29.63	1235	
	Chabra TPS	500	224.00	218.00	5.03	210	
	Dholpur GPS	330	271.00	276.00	6.72	280	
	Ramgarh GPS	113	56.00	55.00	1.40	58	
	RAPS A (NPC)	300	170.00	171.00	4.25	177	
	Barsingsar (NLC)	250	0.00	0.00	0.00	0	
	Giral LTPS (IPP)	250	0.00	144.00	1.69	70	
	Rajwest LTPS (IPP)	135	0.00	0.00	0.00	0	
	VSLP LTPS (IPP)	135	0.00	0.00	0.00	0	
	Thermal (Total)	4753	2688.00	2712.00	64.44	2685	
	Total Hydro	550	0.00	0.00	0.10	4	
	Wind power	1294	335.00	574.00	9.71	405	
	Biomass	71	23.00	23.00	0.52	22	
	Renewable/Others (Total)	1365	358	597	10.23	426	
		Total Rajasthan	6668	3046	3309	74.77	3116
	UP	Anpara TPS	1630	1003	1035	21.59	899
Obra TPS		1442	435	427	9.91	413	
Paricha TPS		640	285	240	5.64	235	
Panki TPS		210	85	164	2.89	120	
Harduaganj TPS		375	0	0	0.00	0	
Tanda TPS (NTPC)		440	290	285	6.96	290	
Roza TPS (IPP)		600	536	549	13.26	552	
Thermal (Total)		5337	2634	2700	60.24	2510	
Vishnuparyag HPS (IPP)		400	436	436	10.46	436	
Other Hydro		527	136	35	3.51	146	
Cogeneration		951	50	50	1.20	50	
		Total UP	7215	3256	3221	75.40	2706
Uttarakhand		Total Hydro	1303	870	911	20.77	865
	Total Uttarakhand	1303	870	911	20.77	865	
Delhi	Rajghat TPS	135	0	0	0.00	0	
	Delhi Gas Turbine	282	148	144	3.64	152	
	Praagati Gas Turbine	330	297	296	7.24	302	
	Rithala GPS	108	45	29	0.78	32	
	Bawana GPS	440	0	0	0.00	0	
	Badarpur TPS (NTPC)	705	499	486	11.27	469	
	Thermal (Total)	2000	989	955	22.93	955	
	Total Delhi	2000	989	955	22.93	955	
HP	Baspa HPS (IPP)	300	330	330	7.90	329	
	Malana HPS (IPP)	86	104	105	2.49	104	
	Other Hydro	584	545	530	12.44	518	
		Total HP	970	979	965	22.83	951
J & K	Baglihar HPS (IPP)	450	442	442	10.23	426	
	Other Hydro	323	196	46	4.56	190	
	Gas/Diesel/Others	183	0	0	0.00	0	
		Total J & K	956	638	488	14.79	616
Total State Generation		26559	15799	15145	363.80	14723	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			3683	4708	97.38	4058	
Total Regional Availability(Gross)		46434	36985	37255	860.33	35411	

IV. Total Hydro Generation:

Central +BBMB Hydro	8541	7334	6860	167.17	6966
State Hydro	4497	3603	3537	82.55	3440
Regional Hydro	13037	10937	10397	249.73	10405

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	300	500	500	0	10.93	0.00	10.93
Gwalior-Agra (D/C)	1055	1444	1500	0	30.58	0.00	30.58
Zerda-Kankroli	0	277	277	0	2.58	0.00	2.58
Zerda-Bhinmal	436	207	653	0	7.61	0.00	7.61
Malanpur-Auraiya	-38	44	44	38	0.00	0.38	-0.38
Badod-Kota/Morak	56	138	184	0	2.58	0.00	2.58
Sub Total WR	1753	2472			51.70	0.38	51.32
Pusauli Bypass	-70	-30	42	197	0.07	1.97	-1.90
MZP- GKP (D/C)	1040	1020	1240	0	23.73	0.00	23.73
Patna-Balia(D/C)	542	539	655	0	11.19	0.00	11.19
B'Sharif-Balia (D/C)	262	547	689	0	8.98	0.00	8.98
Pusauli-Sahupuri	156	160	197	0	4.06	0.00	4.06
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	1930	2236			48.03	1.97	46.06
Total IR Exch	3683	4708			99.73	2.35	97.38

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
22.66	3.49	26.15	27.42	36.32	10.01	3.94	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
63.58	40.11	103.70	46.06	51.32	97.38	-17.52	11.21	-6.32

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	0.70	12.70	97.90	85.90	26.80	1.40

<----- 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				
50.27	16.03	49.42	20.18	49.90	0.34	0.16	50.21	49.67

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	406	18:46	397	00:07	0.0	0.0	0.0	0.0
Gorakhpur	400	433	08:02	412	06:33	0.4	0.4	55.2	10.2
Bareilly	400	416	08:00	400	03:00	100.0	100.0	0.0	0.0
Kanpur	400	416	08:01	397	20:34	0.0	0.0	0.0	0.0
Dadri	400	407	07:10	391	00:12	0.0	0.0	0.0	0.0
Ballabgarh	400	414	07:57	395	00:07	0.0	0.0	0.0	0.0
Bawana	400	409	07:59	390	12:39	0.0	0.0	0.0	0.0
Bassi	400	421	08:00	399	00:19	0.0	0.0	0.3	0.0
Hissar	400	404	08:00	388	00:19	0.0	0.5	0.0	0.0
Moga	400	409	16:00	390	00:19	0.0	0.0	0.0	0.0
Abdullapur	400	409	08:01	283	05:16	0.0	0.0	0.0	0.0
Nalagarh	400	409	07:00	393	09:43	0.0	0.0	0.0	0.0
Kishenpur	400	410	23:58	397	20:18	0.0	0.0	0.0	0.0
Wagoora	400	406	14:20	387	20:18	0.0	4.8	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	490.23	738.95	475.16	356.29	1179.03	842.14
Pong	426.72	384.05	412.40	577.87	394.25	111.75	441.83	453.92
Tehri	829.79	740.04	767.60	185.00	NA	NA	518.85	453.00
Koteshwar	612.50	598.50	NA	NA	NA	NA	NA	NA
Chamera-I	760.00	748.75	756.42	11.44	755.00	NA	353.24	352.36
Rihand	268.22	252.98	256.70	NA	253.81	NA	NA	NA
RPS	352.80	343.81	NA	NA	NA	NA	NA	NA
Jawahar Sagar	298.70	295.78	NA	NA	NA	NA	NA	NA
RSD	527.91	487.91	508.88	NA	502.24	NA	348.86	550.71

IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

XI. Weather Conditions For 14.07.2011 :

1 : Hot & Humid weather in NR.

XII. Synchronisation of new generating units :

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

220 kV Nalagarh-AD hydro-II L.L.O'ed at Malana & charged as
220 kV AD hydro-Malana charged at 23:40 hrs of dt. 14.07.2011
220 kV Malana-Nalagarh charged at 00:04 hrs of dt. 15.07.2011

XIV. Tripping of lines in pooling stations :

XV. Complete generation loss in a generating station :

Report for : 14.07.2011

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER