

पॉवर सिस्टम ऑपरेशन कापोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)

उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 23.07.2011
Date of Reporting : 24.07.2011

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
34990	1205	36195	49.80	35495	2049	37544	50.00	833.0	33.98

* 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)	UI [OD:(+ve), UD:(-ve)]	
	Thermal	Hydro	Renewable/others	Total				Consumption (Net MU)	Shortages * (MU)
Punjab	54.48	19.62		74.10	112.70	110.16	-2.54	184.26	8.38
Haryana	65.84	1.17		67.01	69.49	66.98	-2.51	133.99	0.56
Rajasthan	67.61	0.00	9.65	77.26	36.77	49.71	12.94	126.97	1.21
Delhi	23.50			23.50	78.87	68.85	-10.02	92.36	0.06
UP	59.91	13.36	1.20	74.47	133.28	136.38	3.10	210.86	21.92
Uttarakhand		21.10		21.10	8.02	7.35	-0.66	28.45	0.00
HP		23.68		23.68	-1.57	-0.99	0.58	22.68	0.04
J & K		14.79	0.00	14.79	11.67	13.52	1.85	28.31	1.80
Chandigarh				0.00	6.17	5.07	-1.11	5.07	0.00
Total	271.35	93.72	10.85	375.92	455.39	457.04	1.65	832.95	33.98

* 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				UI [OD:(+ve), UD:(-ve)]	
	Demand Met	Shortage	UI	STOA/PX transaction	Demand Met	Shortage	UI	STOA/PX transaction	Day Energy MU	
Punjab	8021	250	-95	2049	7937	495	-219	2443	55.87	
Haryana	5753	0	-36	1174	5542	292	-131	1183	27.11	
Rajasthan	5103	0	380	-207	5298	747	547	-349	-6.76	
Delhi	4058	0	-409	393	3827	0	-515	340	9.52	
UP	8333	955	-390	1763	9642	515	850	1760	41.95	
Uttarakhand	1312	0	41	-151	1203	0	-49	-151	-3.62	
HP	882	0	-81	-1705	881	0	4	-1772	-40.95	
J&K	1302	0	83	-597	957	0	-104	-590	-14.47	
Chandigarh	226	0	-24	29	208	0	-55	54	1.19	
Total	34990	1205	-531	2747	35495	2049	328	2918	69.84	

* 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)	UI [OG:(+ve), UG:(-ve)]	
								Schedule Net MU	UI Net MU
A. NTPC	Singrauli STPS	2000	1318	1687	1310	32.53	1356	31.63	0.91
	Rihand I STPS	1000	885	854	985	21.64	902	21.12	0.52
	Rihand II STPS	1000	965	1025	1016	23.26	969	23.06	0.20
	Dadri I STPS	840	800	704	875	16.52	688	15.62	0.90
	Dadri II STPS	980	960	863	1019	21.02	876	22.31	-1.30
	Unchahar I TPS	440	353	425	354	8.50	354	8.36	0.14
	Unchahar II TPS	440	398	433	430	9.50	396	9.24	0.26
	Unchahar III TPS	210	196	220	210	4.68	195	4.56	0.12
	I-STPP (Jhajjar)	500	440	483	457	9.04	377	10.52	-1.48
	Dadri GPS	830	558	518	569	11.34	473	11.80	-0.46
	Anta GPS	419	391	324	390	7.82	326	7.78	0.05
	Auraiya GPS	663	611	553	614	12.32	513	11.66	0.67
	Sub Total (A)	9322	7875	8089	8229	178.18	7424	177.65	0.52
B. NPC	NAPS	440	185	217	227	4.44	185	4.44	0.00
	RAPS- B	440	378	418	420	9.06	377	9.07	-0.01
	RAPS- C	440	410	472	467	10.18	424	9.84	0.34
	Sub Total (B)	1320	973	1107	1114	23.68	987	23.35	0.33
C. NHPC	Chamera I HPS	540	536	540	540	12.94	539	12.82	0.13
	Chamera II HPS	300	133	200	300	2.70	112	3.20	-0.50
	Bairasuil HPS	180	179	179	30	2.20	92	1.89	0.31
	Salal-HPS	690	631	631	631	15.16	632	15.14	0.02
	Tanakpur-HPS	94	96	94	91	2.24	93	2.20	0.04
	Uri-HPS	480	353	360	359	8.22	342	8.62	-0.41
	Dhauliganga-HPS	280	277	280	278	6.64	277	6.43	0.21
	Dulhasti-HPS	390	358	408	403	8.49	354	8.25	0.24
	Sewa-II HPS	120	112	82	0	0.45	19	0.40	0.04
	Sub Total (C)	3074	2675	2774	2632	59.03	2460	58.94	0.09
D. NJPC	Nathpa Jhakri	1500	1600	1615	1614	38.36	1598	38.40	-0.04
	Sub Total (D)	1500	1600	1615	1614	38.36	1598	38.40	-0.04
E. THDC	Tehri HPS	1000	780	790	574	18.17	757	18.00	0.17
	Koteshwar HPS	100	0	0	0	0.00	0	0.00	0.00
	Sub Total (E)	1100	780	790	574	18.17	757	18.00	0.17
F. BBMB	Bhakra HPS	1480	970	1076	968	23.77	990	23.28	0.49
	Dehar HPS	990	602	660	620	14.92	622	14.46	0.46
	Pong HPS	396	294	366	246	7.37	307	7.07	0.30
	Sub Total (F)	2866	1867	2102	1834	46.06	1919	44.80	1.26
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	175	117	3.26	136	3.18	0.08
	KWHEP HPS(IPP)	500	0	600	600	14.13	589	14.29	-0.16
	Sub Total (G)	692	0	775	717	17.39	725	17.47	-0.08
H. Total Regional Entities (A-G)	19875	15770	17252	16714	380.88	15870	378.62	2.26	

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	1260.00	27.76	1157	
	Guru Nanak Dev TPS(Bhatinda)	440	291.00	286.00	6.11	255	
	Guru Hargobind Singh TPS(L.mbt)	920	946.00	949.00	20.61	859	
	Thermal (Total)	2620	2497.00	2495.00	54.48	2270	
	Total Hydro	1148	1118.00	820.00	19.62	818	
	Total Punjab	3768	3615	3315	74.10	3088	
Haryana	Panipat TPS	1360	979.00	980.00	23.55	981	
	DCRTPP (Yamuna nagar)	600	469.00	465.00	10.56	440	
	Faridabad GPS (NTPC)	432	381.00	398.00	9.05	377	
	RGTPP (khedar) (IPP)	1200	871.00	795.00	22.69	945	
	Magnum Diesel (IPP)	25	0.00	0.00	0.00	0	
	Thermal (Total)	3617	2700.00	2638.00	65.84	2743	
	Total Hydro	62	45.00	45.00	1.17	49	
	Total Haryana	3679	2745	2683	67.01	2792	
Rajasthan	kota TPS	1240	973.00	949.00	22.66	944	
	suratgarh TPS	1500	1113.00	1113.00	27.28	1137	
	Chabra TPS	500	221.00	221.00	5.04	210	
	Dholpur GPS	330	270.00	270.00	6.71	280	
	Ramgarh GPS	113	65.00	67.00	1.64	68	
	RAPS A (NPC)	300	177.00	177.00	4.28	178	
	Barsingsar (NLC)	250	0.00	0.00	0.00	0	
	Giral LTPS (IPP)	250	0.00	0.00	0.00	0	
	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	2819.00	2797.00	67.61	2817	
	Total Hydro	550	0.00	0.00	0.00	0	
	Wind power	1294	356.00	556.00	9.17	382	
	Biomass	71	20.00	20.00	0.48	20	
	Renewable/Others (Total)	1365	376	576	9.65	402	
		Total Rajasthan	6668	3195	3373	77.26	3219
	UP	Anpara TPS	1630	1390	1044	25.60	1067
Obra TPS		1442	176	449	8.70	363	
Paricha TPS		640	372	380	8.10	338	
Panki TPS		210	75	70	1.50	63	
Harduaganj TPS		375	0	0	0.00	0	
Tanda TPS (NTPC)		440	200	199	4.82	201	
Roza TPS (IPP)		600	554	414	11.19	466	
Thermal (Total)		5337	2767	2556	59.91	2496	
Vishnuparyag HPS (IPP)		400	436	436	10.46	436	
Other Hydro		527	118	29	2.91	121	
Cogeneration		951	50	50	1.20	50	
		Total UP	7215	3371	3071	74.47	2667
Uttarakhand		Total Hydro	1303	903	906	21.10	879
	Total Uttarakhand	1303	903	906	21.10	879	
Delhi	Rajghat TPS	135	0	0	0.00	0	
	Delhi Gas Turbine	282	145	110	3.55	148	
	Praagati Gas Turbine	330	293	297	7.18	299	
	Rithala GPS	108	35	29	0.91	38	
	Bawana GPS	440	0	0	0.00	0	
	Badarpur TPS (NTPC)	705	449	513	11.87	495	
	Thermal (Total)	2000	922	949	23.50	979	
	Total Delhi	2000	922	949	23.50	979	
HP	Baspa HPS (IPP)	330	330	330	7.92	330	
	Malana HPS (IPP)	101	105	106	2.51	105	
	Other Hydro	571	573	553	13.24	552	
		Total HP	1002	1008	989	23.68	987
J & K	Baglihar HPS (IPP)	450	438	436	10.50	438	
	Other Hydro	323	188	192	4.29	179	
	Gas/Diesel/Others	183	0	0	0.00	0	
		Total J & K	956	626	628	14.79	616
Total State Control Area Generation		26591	16385	15914	375.92	15228	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			3438	4194	91.40	3808	
Total Regional Availability(Gross)		46466	37075	36822	848.19	34906	

IV. Total Hydro Generation:

Regional Entities Hydro	9233	8056	7371	179.02	7459
State Control Area Hydro	5365	3818	3417	83.27	3469
Total Regional Hydro	14597	11874	10788	262.28	10928

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	10.04	0.00	10.04
Gwalior-Agra (D/C)	1089	1131	1527	0	26.33	0.00	26.33
Zerda-Kankroli	10	73	263	114	1.49	0.00	1.49
Zerda-Bhinmal	193	68	371	76	3.76	0.00	3.76
Malanpur-Auraiya	-19	52	-8	0	0.00	0.20	-0.20
Badod-Kota/Morak	63	0	90	26	1.24	0.00	1.24
Sub Total WR	1573	1824			41.62	0.20	41.42
Pusauli Bypass	18	-96	120	96	0.54	0.48	0.06
MZP- GKP (D/C)	970	1200	1378	0	27.43	0.00	27.43
Patna-Balia(D/C)	466	590	708	0	11.12	0.00	11.12
B'Sharif-Balia (D/C)	307	535	625	0	8.01	0.00	8.01
Pusauli-Sahupuri	140	173	201	0	4.16	0.00	4.16
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-36	-32	0	38	0.00	0.80	-0.80
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sub Total ER	1865	2370			51.25	1.27	49.98
Total IR Exch	3438	4194			92.87	1.47	91.40

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
21.41	3.83	25.24	25.10	35.15	2.26	4.63	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
52.59	39.55	92.14	49.98	41.42	91.40	-2.61	1.87	-0.74

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	1.30	17.30	97.60	81.60	17.30	1.10

<----- 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	14.05	49.41	19.47	49.85	0.46	0.16	50.18	49.71

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	410	08:01	400	14:47	0.0	0.0	0.0	0.0
Gorakhpur	400	438	09:02	409	22:16	0.0	0.0	74.9	14.4
Bareilly	400	423	08:00	397	22:33	0.0	0.0	3.5	0.0
Kanpur	400	418	09:00	400	22:18	0.0	0.0	0.0	0.0
Dadri	400	411	08:02	393	14:35	0.0	0.0	0.0	0.0
Ballabgarh	400	416	08:01	395	14:35	0.0	0.0	0.0	0.0
Bawana	400	411	08:01	390	14:37	0.0	0.0	0.0	0.0
Bassi	400	426	18:01	401	14:37	0.0	0.0	25.3	0.0
Hissar	400	406	18:01	387	14:26	0.0	3.7	0.0	0.0
Moga	400	407	18:00	392	09:33	0.0	0.0	0.0	0.0
Abdullapur	400	410	08:02	283	11:09	0.1	0.1	0.0	0.0
Nalagarh	400	409	08:02	397	00:07	0.0	0.0	0.0	0.0
Kishenpur	400	407	02:43	392	09:36	0.0	0.0	0.0	0.0
Wagoora	400	407	23:48	0	00:00	69.9	79.0	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	493.64	858.11	482.93	527.87	1378.12	728.73
Pong	426.72	384.05	412.99	600.05	397.35	168.56	1038.75	451.83
Tehri	829.79	740.04	776.60	285.56	NA	NA	662.69	509.00
Koteswar	612.50	598.50	604.80	2.25	NA	NA	507.00	NA
Chamera-I	760.00	748.75	756.84	12.91	756.50	NA	342.76	349.80
Rihand	268.22	252.98	258.01	168.50	255.09	NA	NA	NA
RPS	352.80	343.81	345.65	NA	NA	NA	NA	NA
Jawahar Sagar	298.70	295.78	297.03	NA	NA	NA	NA	67.90
RSD	527.91	487.91	508.98	NA	505.68	NA	343.23	369.25

IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

XI. Weather Conditions For 23.07.2011 :

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 :

XIV. Tripping of lines in pooling stations :

XV. Complete generation loss in a generating station :

Report for : 23.07.2011

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER