

पाँवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड
(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)
उत्तरी क्षेत्रीय भार प्रेषण केंद्र



Power Supply Position in Northern Region for 17.07.2011
Date of Reporting : 18.07.2011

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
33127	420	33547	49.93	32567	0	32567	50.08	778.1	7.66

* 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:

UI [OD:(+ve), UD: (-ve)]

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	46.95	18.46		65.41	112.18	110.10	-2.08	175.51	1.80
Haryana	64.75	1.05		65.80	59.65	60.33	0.68	126.13	0.00
Rajasthan	62.07	0.01	1.97	64.06	30.15	49.68	19.53	113.73	0.00
Delhi	21.33			21.33	68.85	61.78	-7.07	83.11	0.00
UP	61.83	12.75	1.20	75.78	135.37	126.10	-9.27	201.87	5.86
Uttarakhand		20.85		20.85	9.34	5.96	-3.38	26.81	0.00
HP		23.29		23.29	-2.04	-2.90	-0.86	20.39	0.00
J & K		15.03	0.00	15.03	9.62	11.14	1.52	26.17	0.00
Chandigarh				0.00	5.38	4.43	-0.95	4.43	0.00
Total	256.93	91.44	3.17	351.54	428.49	426.61	-1.88	778.15	7.66

* Shortage furnished by the respective constituent.

II. B. State's Demand Met in MWs:

UI/OA/PX [OD/Import: (+ve), UD/Export: (-ve)]

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	7279	150	-497	2295	7011	0	-290	2716	61.26
Haryana	5279	0	-4	1163	5187	0	129	582	18.79
Rajasthan	4569	0	686	-720	4675	0	779	-565	-14.75
Delhi	3654	20	-78	418	3357	0	-243	550	13.55
UP	8833	250	14	1763	9336	0	245	1763	42.30
Uttarakhand	1280	0	18	-151	1117	0	-179	-151	-3.62
HP	703	0	-186	-1680	825	0	-65	-1672	-40.33
J&K	1316	0	149	-597	888	0	-18	-590	-13.74
Chandigarh	214	0	-7	47	171	0	-29	54	1.26
Total	33127	420	95	2537	32567	0	329	2686	64.71

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

III. Regional Entities :

UI [OG:(+ve), UG: (-ve)]

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	1720	1854	1850	41.93	1747	40.08	1.85
	Rihand I STPS	1000	960	1016	997	21.81	909	21.58	0.22
	Rihand II STPS	1000	970	987	996	21.95	915	21.68	0.27
	Dadri I STPS	840	800	578	589	13.63	568	13.75	-0.12
	Dadri II STPS	980	960	712	722	16.56	690	16.96	-0.40
	Unchahar I TPS	440	396	405	374	8.67	361	8.72	-0.05
	Unchahar II TPS	440	594	412	317	8.00	333	7.86	0.14
	Unchahar III TPS	210	196	199	191	4.11	171	3.86	0.24
	ISTPP (Jhajjar)	500	470	380	404	7.92	330	9.24	-1.32
	Dadri GPS	830	550	487	344	8.74	364	8.91	-0.17
	Anta GPS	419	386	332	302	6.85	286	6.59	0.27
	Auraiya GPS	663	610	465	399	9.95	415	9.62	0.34
	Sub Total (A)	9322	8612	7827	7485	170.12	7088	168.85	1.27
	B. NPC	NAPS	440	185	223	222	4.53	189	4.44
RAPS- B		440	388	431	432	9.35	390	9.31	0.04
RAPS- C		440	410	459	466	9.95	415	9.84	0.11
Sub Total (B)		1320	983	1113	1120	23.83	993	23.59	0.24
C. NHPC	Chamera I HPS	540	534	540	540	12.69	529	12.81	-0.11
	Chamera II HPS	300	297	304	303	7.16	298	7.22	-0.06
	Bairasui HPS	180	179	120	87	2.33	97	2.64	-0.30
	Salal-HPS	690	81	50	0	2.25	94	2.20	0.04
	Tanakpur-HPS	94	98	93	93	2.15	90	2.11	0.05
	Uri-HPS	480	371	365	399	8.89	371	8.66	0.23
	Dhauliganga-HPS	280	277	276	277	6.61	275	6.68	-0.07
	Dulhasti-HPS	390	391	410	408	9.05	377	9.10	-0.04
	Sewa-II HPS	120	119	72	0	0.93	39	1.03	-0.10
	Sub Total (C)	3074	2346	2230	2107	52.07	2170	52.44	-0.37
D. NJPC	Nathpa Jhakri	1500	1600	1614	1612	38.14	1589	38.40	-0.26
	Sub Total (D)	1500	1600	1614	1612	38.14	1589	38.40	-0.26
E. THDC	Tehrri HPS	1000	682	750	746	16.18	674	16.00	0.18
	Koteswar HPS	100	0	0	0	0.00	0	0.00	0.00
	Sub Total (E)	1100	682	750	746	16.18	674	16.00	0.18
F. BBMB	Bhakra HPS	1480	909	1077	861	22.48	937	21.82	0.66
	Dehar HPS	990	608	660	620	15.05	627	14.60	0.46
	Pong HPS	396	290	366	246	7.14	298	6.96	0.18
	Sub Total (F)	2866	1807	2103	1727	44.67	1861	43.38	1.29
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	114	94	2.60	108	2.43	0.17
	KWHEP HPS(IPP)	500	0	600	600	14.34	597	14.23	0.11
	Sub Total (G)	692	0	714	694	16.93	706	16.66	0.27
H. Total Regional Entities (A-G)	19875	16031	16351	15491	361.94	15081	359.32	2.62	

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	1050.00	900.00	22.14	922	
	Guru Nanak Dev TPS(Bhatinda)	440	255.00	250.00	5.32	221	
	Guru Hargobind Singh TPS(L.mbt)	920	850.00	786.00	19.50	812	
	Thermal (Total)	2620	2155.00	1936.00	46.95	1956	
	Total Hydro	1148	815.00	759.00	18.46	769	
	Total Punjab	3768	2970	2695	65.41	2725	
Haryana	Panipat TPS	1360	1087.00	1125.00	26.20	1092	
	DCRTPP (Yamuna nagar)	600	263.00	257.00	6.42	267	
	Faridabad GPS (NTPC)	432	398.00	351.00	8.53	355	
	RGTPP (khedar) (IPP)	1200	909.00	900.00	23.60	983	
	Magnum Diesel (IPP)	25	0.00	0.00	0.00	0	
	Thermal (Total)	3617	2657.00	2633.00	64.75	2698	
	Total Hydro	62	41.00	41.00	1.05	44	
		Total Haryana	3679	2698	2674	65.80	2742
Rajasthan	kota TPS	1240	807.00	762.00	17.83	743	
	suratgarh TPS	1500	1000.00	1106.00	25.73	1072	
	Chabra TPS	500	208.00	227.00	5.08	212	
	Dholpur GPS	330	265.00	225.00	6.73	280	
	Ramgarh GPS	113	55.00	57.00	1.41	59	
	RAPS A (NPC)	300	172.00	172.00	4.28	178	
	Barsingsar (NLC)	250	63.00	51.00	1.01	42	
	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	2570.00	2600.00	62.07	2586	
	Total Hydro	550	4.00	0.00	0.01	1	
	Wind power	1294	60.00	56.00	1.29	54	
	Biomass	71	28.00	28.00	0.68	28	
	Renewable/Others (Total)	1365	88	84	1.97	82	
		Total Rajasthan	6668	2662	2684	64.06	2669
	UP	Anpara TPS	1630	1522	1511	33.22	1384
Obra TPS		1442	348	420	7.57	316	
Paricha TPS		640	66	54	1.63	68	
Panki TPS		210	88	62	1.68	70	
Harduaganj TPS		375	0	0	0.00	0	
Tanda TPS (NTPC)		440	275	281	6.52	272	
Roza TPS (IPP)		600	459	549	11.21	467	
Thermal (Total)		5337	2758	2877	61.83	2576	
Vishnuparyag HPS (IPP)		400	436	436	10.46	436	
Other Hydro		527	114	23	2.29	95	
Cogeneration		951	50	50	1.20	50	
		Total UP	7215	3358	3386	75.78	2722
Uttarakhand		Total Hydro	1303	876	877	20.85	869
	Total Uttarakhand	1303	876	877	20.85	869	
Delhi	Rajghat TPS	135	0	0	0.00	0	
	Delhi Gas Turbine	282	112	111	2.72	113	
	Praagati Gas Turbine	330	272	278	6.78	282	
	Rithala GPS	108	45	29	0.95	39	
	Bawana GPS	440	0	0	0.00	0	
	Badarpur TPS (NTPC)	705	480	515	10.89	454	
	Thermal (Total)	2000	909	933	21.33	889	
		Total Delhi	2000	909	933	21.33	889
HP	Baspa HPS (IPP)	300	330	330	7.92	330	
	Malana HPS (IPP)	86	87	91	2.30	96	
	Other Hydro	584	551	551	13.07	545	
		Total HP	970	968	972	23.29	970
J & K	Baglihar HPS (IPP)	450	442	441	10.60	442	
	Other Hydro	323	180	0	4.43	185	
	Gas/Diesel/Others	183	0	0	0.00	0	
		Total J & K	956	622	441	15.03	626
Total State Control Area Generation		26559	15063	14662	351.54	14212	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			3640	3534	86.53	3605	
Total Regional Availability(Gross)		46434	35054	33687	800.01	32898	

IV. Total Hydro Generation:

Regional Entities Hydro	9233	7411	6886	167.99	7000
State Control Area Hydro	5333	3440	3113	80.99	3374
Total Regional Hydro	14565	10851	9999	248.98	10374

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	300	500	0	8.60	0.00	8.60
Gwalior-Agra (D/C)	1147	1190	1385	0	28.37	0.00	28.37
Zerda-Kankroli	133	69	182	126	0.71	0.00	0.71
Zerda-Bhinmal	211	138	309	0	3.44	0.00	3.44
Malanpur-Auraiya	-23	55	55	34	0.59	0.00	0.59
Badod-Kota/Morak	32	139	177	7	2.84	0.00	2.84
Sub Total WR	1968	1752			41.72	0.00	41.72
Pusaui Bypass	-127	-95	32	264	0.10	1.56	-1.45
MZP- GKP (D/C)	1012	1040	1262	0	26.15	0.00	26.15
Patna-Balia(D/C)	377	358	512	0	9.78	0.00	9.78
B'Sharif-Balia (D/C)	246	313	416	0	5.74	0.00	5.74
Pusaui-Sahupuri	164	166	196	0	4.60	0.00	4.60
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	1672	1782			46.37	1.56	44.81
Total IR Exch	3640	3534			88.09	1.56	86.53

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
18.99	3.71	22.69	25.46	33.80	-0.46	2.98	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
47.70	36.47	84.16	44.81	41.72	86.53	-2.89	5.25	2.37

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	0.00	0.60	96.60	96.00	42.60	3.40

<----- 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				
50.34	17.42	49.64	12.02	49.98	0.15	0.12	50.29	49.89

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	17:05	397	23:46	0.0	0.0	0.0	0.0
Gorakhpur	400	433	18:16	401	23:47	0.0	0.0	34.3	3.5
Bareilly	400	426	08:00	392	00:05	0.0	0.0	6.1	0.0
Kanpur	400	420	09:00	395	23:53	0.0	0.0	0.0	0.0
Dadri	400	415	18:04	398	22:32	0.0	0.0	0.0	0.0
Ballabgarh	400	419	18:03	399	23:07	0.0	0.0	0.0	0.0
Bawana	400	413	18:03	396	22:31	0.0	0.0	0.0	0.0
Bassi	400	431	18:04	405	22:11	0.0	0.0	31.0	0.0
Hissar	400	409	19:01	392	12:19	0.0	0.0	0.0	0.0
Moga	400	413	04:02	396	12:14	0.0	0.0	0.0	0.0
Abdullapur	400	412	16:16	396	12:20	0.0	0.0	0.0	0.0
Nalagarh	400	413	04:02	397	12:21	0.0	0.0	0.0	0.0
Kishenpur	400	415	04:02	397	20:24	0.0	0.0	0.0	0.0
Wagoora	400	409	04:06	383	21:23	0.0	12.9	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	491.43	778.28	477.01	394.40	1076.72	729.84
Pong	426.72	384.05	412.51	577.87	394.82	121.45	474.22	447.01
Tehri	829.79	740.04	772.05	229.79	NA	NA	596.38	466.00
Koteswar	612.50	598.50	NA	NA	NA	NA	NA	NA
Chamera-I	760.00	748.75	756.74	12.82	755.00	NA	355.38	343.94
Rihand	268.22	252.98	256.89	NA	254.93	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	509.11	NA	502.12	NA	328.14	271.95

IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

XI. Weather Conditions For 17.07.2011 :

1 : Normal weather in 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 : 17.07.2011

पारी प्रमारी अभियंता / SHIFT CHARGE ENGINEER