

पावर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)

उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 18.07.2011
Date of Reporting : 19.07.2011

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
34743	1084	35827	49.75	33530	13	33543	50.03	816.0	8.91

* 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	50.06	18.24		68.30	115.84	109.71	-6.13	178.01	1.80
Haryana	65.03	1.05		66.07	60.25	64.34	4.09	130.41	0.00
Rajasthan	62.37	0.01	4.20	66.59	38.04	53.88	15.84	120.46	0.00
Delhi	21.17			21.17	69.59	67.61	-1.99	88.77	0.07
UP	70.69	12.47	1.20	84.36	137.71	129.64	-8.07	214.00	6.80
Uttarakhand		20.10		20.10	8.77	8.98	0.22	29.09	0.24
HP		24.04		24.04	-1.15	-1.99	-0.84	22.06	0.00
J & K		14.97	0.00	14.97	12.85	13.27	0.42	28.25	0.00
Chandigarh				0.00	6.10	4.94	-1.16	4.94	0.00
Total	269.32	90.89	5.40	365.61	447.99	450.38	2.39	815.98	8.91

* 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	7914	150	172	1991	7359	0	-134	2722	60.10
Haryana	5717	0	176	1169	5049	0	263	1102	23.69
Rajasthan	4932	0	331	261	4947	0	916	-572	-6.90
Delhi	3998	14	-444	320	3344	13	-87	100	7.79
UP	8480	850	-638	1763	9798	0	596	1763	42.29
Uttarakhand	1336	70	73	-151	1136	0	-143	-151	-3.62
HP	825	0	-84	-1754	730	0	-202	-1725	-41.08
J&K	1307	0	54	-597	989	0	-136	-590	-14.47
Chandigarh	234	0	-1	29	178	0	-52	54	1.25
Total	34743	1084	-361	3029	33530	13	1021	2703	69.04

* 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	1720	1854	1374	38.55	1606	37.91	0.64
	Rihand I STPS	1000	960	1045	895	21.50	896	21.27	0.23
	Rihand II STPS	1000	965	1027	889	21.62	901	21.40	0.21
	Dadri I STPS	840	800	865	588	14.74	614	14.62	0.12
	Dadri II STPS	980	960	939	620	18.06	752	18.68	-0.62
	Unchahar I TPS	440	402	436	358	9.20	383	8.97	0.22
	Unchahar II TPS	440	594	435	313	8.43	351	8.34	0.09
	Unchahar III TPS	210	196	212	171	4.25	177	4.10	0.15
	ISTPP (Jhajjar)	500	464	487	351	7.96	332	9.04	-1.08
	Dadri GPS	830	589	534	413	10.44	435	10.53	-0.10
	Anta GPS	419	383	379	288	6.74	281	6.41	0.33
	Auraiya GPS	663	611	465	386	9.73	406	9.49	0.24
	Sub Total (A)	9322	8645	8678	6646	171.22	7134	170.78	0.44
	B. NPC	NAPS	440	185	224	226	4.48	187	4.44
RAPS- B		440	388	428	432	9.29	387	9.31	-0.03
RAPS- C		440	410	441	465	9.98	416	9.84	0.14
Sub Total (B)		1320	983	1093	1123	23.74	989	23.59	0.15
C. NHPC	Chamera I HPS	540	534	540	540	12.81	534	12.81	0.00
	Chamera II HPS	300	297	302	303	7.19	299	7.21	-0.02
	Bairasuil HPS	180	157	120	120	2.15	90	2.26	-0.11
	Salal-HPS	690	630	631	631	15.18	633	15.12	0.07
	Tanakpur-HPS	94	45	94	94	1.07	45	1.04	0.03
	Uri-HPS	480	374	406	365	8.72	363	8.51	0.21
	Dhauliganga-HPS	280	277	278	278	6.66	277	6.70	-0.04
	Dulhasti-HPS	390	387	411	404	9.35	389	9.16	0.18
	Sewa-II HPS	120	119	83	38	0.98	41	1.00	-0.03
	Sub Total (C)	3074	2820	2865	2773	64.10	2671	63.79	0.30
D.NJPC	Nathpa Jhakri	1500	1600	1614	1616	38.42	1601	38.38	0.04
	Sub Total (D)	1500	1600	1614	1616	38.42	1601	38.38	0.04
E. THDC	Tehri HPS	1000	701	765	755	16.06	669	16.00	0.06
	Koteshwar HPS	100	0	0	0	0.00	0	0.00	0.00
	Sub Total (E)	1100	701	765	755	16.06	669	16.00	0.06
F. BBMB	Bhakra HPS	1480	898	1077	969	22.29	929	21.56	0.73
	Dehar HPS	990	608	660	620	14.99	625	14.60	0.40
	Pong HPS	396	297	366	246	7.35	306	7.14	0.21
	Sub Total (F)	2866	1804	2103	1835	44.63	1860	43.29	1.34
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	138	126	2.92	122	2.65	0.26
	KWHEP HPS(IPP)	500	0	594	594	14.26	594	14.23	0.02
	Sub Total (G)	692	0	732	720	17.17	716	16.89	0.29
H. Total Regional Entities (A-G)	19875	16552	17850	15468	375.33	15639	372.71	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	1250.00	900.00	24.41	1017	
	Guru Nanak Dev TPS(Bhatinda)	440	280.00	278.00	5.88	245	
	Guru Hargobind Singh TPS(L.mbt)	920	934.00	780.00	19.77	824	
	Thermal (Total)	2620	2464.00	1958.00	50.06	2086	
	Total Hydro	1148	819.00	759.00	18.24	760	
	Total Punjab	3768	3283	2717	68.30	2846	
Haryana	Panipat TPS	1360	1147.00	1089.00	27.14	1131	
	DCRTPP (Yamuna nagar)	600	266.00	268.00	6.31	263	
	Faridabad GPS (NTPC)	432	350.00	319.00	8.05	335	
	RGTPP (khedar) (IPP)	1200	914.00	888.00	23.52	980	
	Magnum Diesel (IPP)	25	0.00	0.00	0.00	0	
	Thermal (Total)	3617	2677.00	2564.00	65.03	2709	
	Total Hydro	62	40.00	10.00	1.05	44	
	Total Haryana	3679	2717	2574	66.07	2753	
Rajasthan	kota TPS	1240	733.00	709.00	17.46	728	
	suratgarh TPS	1500	1130.00	1112.00	26.68	1112	
	Chabra TPS	500	229.00	229.00	5.27	219	
	Dholpur GPS	330	273.00	278.00	6.70	279	
	Ramgarh GPS	113	63.00	65.00	1.60	67	
	RAPS A (NPC)	300	172.00	172.00	4.20	175	
	Barsingsar (NLC)	250	0.00	61.00	0.46	19	
	Giral LTTPS (IPP)	250	0.00	0.00	0.00	0	
	Rajwest LTTPS (IPP)	135	0.00	0.00	0.00	0	
	VSLP LTTPS (IPP)	135	0.00	0.00	0.00	0	
	Thermal (Total)	4753	2600.00	2626.00	62.37	2599	
	Total Hydro	550	4.00	0.00	0.01	1	
	Wind power	1294	16.00	150.00	3.75	156	
	Biomass	71	19.00	19.00	0.45	19	
	Renewable/Others (Total)	1365	35	169	4.20	175	
	Total Rajasthan	6668	2639	2795	66.59	2774	
	UP	Anpara TPS	1630	1494	1540	36.92	1538
		Obra TPS	1442	367	315	8.31	346
Paricha TPS		640	249	201	5.61	234	
Panki TPS		210	75	80	1.84	77	
Harduaganj TPS		375	0	0	0.00	0	
Tanda TPS (NTPC)		440	275	192	6.09	254	
Roza TPS (IPP)		600	558	554	11.92	497	
Thermal (Total)		5337	3018	2882	70.69	2945	
Vishnuparyag HPS (IPP)		400	436	436	10.17	424	
Other Hydro		527	89	23	2.30	96	
Cogeneration		951	50	50	1.20	50	
Total UP		7215	3593	3391	84.36	3091	
Uttarakhand		Total Hydro	1303	877	875	20.10	838
		Total Uttarakhand	1303	877	875	20.10	838
Delhi	Rajghat TPS	135	0	0	0.00	0	
	Delhi Gas Turbine	282	109	112	2.85	119	
	Pragati Gas Turbine	330	293	278	7.14	297	
	Rithala GPS	108	48	29	0.95	40	
	Bawana GPS	440	0	0	0.00	0	
	Badarpur TPS (NTPC)	705	510	495	10.22	426	
	Thermal (Total)	2000	960	914	21.17	882	
	Total Delhi	2000	960	914	21.17	882	
HP	Baspa HPS (IPP)	330	330	330	7.93	330	
	Malana HPS (IPP)	101	103	101	2.37	99	
	Other Hydro	571	566	571	13.75	573	
	Total HP	1002	999	1002	24.04	1002	
J & K	Baglihar HPS (IPP)	450	442	441	10.60	442	
	Other Hydro	323	190	182	4.37	182	
	Gas/Diesel/Others	183	0	0	0.00	0	
	Total J & K	956	632	623	14.97	624	
Total State Control Area Generation		26591	15700	14891	365.61	14810	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			3660	4042	93.85	3910	
Total Regional Availability(Gross)		46466	37210	34401	834.78	34359	

IV. Total Hydro Generation:

Regional Entities Hydro	9233	8079	7699	180.38	7516
State Control Area Hydro	5365	3460	3292	80.72	3363
Total Regional Hydro	14597	11539	10991	261.10	10879

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	11.96	0.00	11.96
Gwalior-Agra (D/C)	938	1194	1374	0	29.07	0.00	29.07
Zerda-Kankroli	279	121	341	25	3.27	0.00	3.27
Zerda-Bhinmal	365	188	433	39	5.14	0.00	5.14
Malanpur-Auraiya	6	56	41	0	1.00	0.00	1.00
Badod-Kota/Morak	89	162	162	0	2.84	0.00	2.84
Sub Total WR	2088	2059			50.43	0.00	50.43
Pusauli Bypass	-108	-72	98	220	0.15	2.31	-2.16
MZP- GKP (D/C)	926	1170	1264	0	26.00	0.00	26.00
Patna-Balia(D/C)	369	427	477	0	9.64	0.00	9.64
B'Sharif-Balia (D/C)	224	299	355	0	5.64	0.00	5.64
Pusauli-Sahupuri	161	159	183	0	4.30	0.00	4.30
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	1572	1983			45.72	2.31	43.42
Total IR Exch	3660	4042			96.15	2.31	93.85

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
19.94	3.72	23.66	25.09	35.15	3.49	3.47	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
52.24	38.45	90.69	43.42	50.43	93.85	-8.82	11.98	3.16

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	5.50	99.40	94.00	28.90	0.50

<----- Frequency (Hz) ----->				Average Frequency	Frequency Variation Index	Std. Dev.	Frequency in 15 Min Block	
Maximum		Minimum					MAX	MIN
Freq	Time	Freq	Time	Hz	(Hz)	(Hz)		
50.25	9.59	49.46	23.06	49.93	0.20	0.12	50.23	0.00

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	407	06:40	396	23:07	0.0	0.0	0.0	0.0
Gorakhpur	400	425	18:01	396	23:09	0.0	0.0	12.5	0.0
Bareilly	400	419	08:00	390	23:09	0.0	0.0	0.0	0.0
Kanpur	400	412	09:00	392	23:24	0.0	0.0	0.0	0.0
Dadri	400	410	07:02	393	23:19	0.0	0.0	0.0	0.0
Ballabgarh	400	414	07:05	393	23:25	0.0	0.0	0.0	0.0
Bawana	400	410	07:04	391	23:05	0.0	0.0	0.0	0.0
Bassi	400	424	04:02	400	23:18	0.0	0.0	8.8	0.0
Hissar	400	406	03:54	390	23:20	0.0	0.0	0.0	0.0
Moga	400	411	04:01	394	23:23	0.0	0.0	0.0	0.0
Abdullapur	400	409	03:45	287	07:59	0.1	0.1	0.0	0.0
Nalagarh	400	411	03:54	397	19:49	0.0	0.0	0.0	0.0
Kishenpur	400	410	03:15	393	20:22	0.0	0.0	0.0	0.0
Wagoora	400	407	03:17	387	20:21	0.0	6.7	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	491.75	788.17	477.90	407.63	1139.00	719.90
Pong	426.72	384.05	412.52	577.87	395.09	126.34	498.80	457.97
Tehri	829.79	740.04	772.45	230.00	NA	NA	501.69	461.00
Koteswar	612.50	598.50	NA	NA	NA	NA	NA	NA
Chamera-I	760.00	748.75	756.67	12.80	756.48	NA	332.46	347.41
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 18.07.2011 :

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 : 18.07.2011

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER