

पावर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)

उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 26.07.2011

Date of Reporting : 27.07.2011

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
35093	3915	39008	49.64	35350	1265	36615	49.87	842.0	57.87

* 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	54.64	22.42		77.06	111.81	110.05	-1.75	187.11	12.22
Haryana	63.56	1.07		64.63	71.67	70.59	-1.08	135.22	5.20
Rajasthan	65.84	0.00	3.97	69.81	31.73	50.25	18.52	120.06	1.60
Delhi	24.98			24.98	80.77	69.91	-10.85	94.89	0.81
UP	69.70	15.15	1.20	86.05	119.70	139.81	20.10	225.86	31.25
Uttarakhand		17.82		17.82	9.22	10.63	1.41	28.45	0.77
HP		23.51		23.51	-2.12	-2.39	-0.26	21.12	0.00
J & K		14.61	0.00	14.61	10.23	9.13	-1.10	23.74	5.10
Chandigarh				0.00	6.56	5.52	-1.04	5.52	0.92
Total	278.71	94.57	5.17	378.45	439.57	463.52	23.95	841.96	57.87

* 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	7928	1283	26	2002	7768	0	-319	2454	55.20
Haryana	5663	647	74	1167	5801	0	-199	1179	26.23
Rajasthan	4846	300	619	-559	5386	70	1077	-579	-13.08
Delhi	4237	0	-186	467	3552	0	-744	500	10.63
UP	8807	1545	260	1249	10138	1195	1401	1242	29.86
Uttarakhand	1300	140	8	-151	1104	0	213	-151	-3.62
HP	869	0	-39	-1199	754	0	-138	-1204	-28.73
J&K	1188	0	31	-597	663	0	-292	-596	-14.57
Chandigarh	255	0	-43	54	184	0	-45	54	1.54
Total	35093	3915	750	2433	35350	1265	954	2899	63.46

* 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	1873	2066	2011	45.67	1903	44.96	0.71
	Rihand I STPS	1000	960	1049	1048	23.19	966	23.03	0.15
	Rihand II STPS	1000	965	1044	1035	23.42	976	23.15	0.27
	Dadri I STPS	840	800	803	872	19.20	800	19.20	0.00
	Dadri II STPS	980	960	963	1014	22.93	955	23.02	-0.09
	Unchahar I TPS	440	402	441	435	9.70	404	9.64	0.06
	Unchahar II TPS	440	388	430	434	9.36	390	9.30	0.07
	Unchahar III TPS	210	196	217	220	4.76	198	4.69	0.06
	ISTPP (Jhajjar)	500	453	377	486	9.50	396	10.84	-1.34
	Dadri GPS	830	553	567	573	13.02	543	13.01	0.01
	Anta GPS	419	386	379	392	9.07	378	8.93	0.14
	Auraiya GPS	663	603	621	620	14.18	591	14.02	0.16
	Sub Total (A)	9322	8540	8957.13	9140.08	204.00	8500	203.79	0.21
	B. NPC	NAPS	440	185	219	219	4.39	183	4.44
RAPS- B		440	379	418	415	8.92	372	9.10	-0.17
RAPS- C		440	410	464	469	10.05	419	9.84	0.21
Sub Total (B)		1320	974	1101	1103	23.36	973	23.38	-0.01
C. NHPC	Chamera I HPS	540	534	540	540	13.00	542	12.82	0.19
	Chamera II HPS	300	287	300	300	6.62	276	6.32	0.30
	Bairasuil HPS	180	179	179	120	4.30	179	3.49	0.81
	Salal-HPS	690	632	630	630	15.13	631	15.16	-0.03
	Tanakpur-HPS	94	77	94	64	1.92	80	1.81	0.11
	Uri-HPS	480	310	360	284	7.80	325	7.19	0.61
	Dhauliganga-HPS	280	277	278	283	6.70	279	6.66	0.04
	Dulhasti-HPS	390	387	403	403	9.28	387	9.17	0.12
	Sewa-II HPS	120	119	126	121	2.83	118	2.70	0.13
	Sub Total (C)	3074	2802	2909	2745	67.59	2816	65.31	2.27
D.NJPC	Nathpa Jhakri	1500	0	0	0	0.00	0	0.00	0.00
	Sub Total (D)	1500	0	0	0	0.00	0	0.00	0.00
E. THDC	Tehri HPS	1000	810	818	806	19.55	815	19.00	0.55
	Koteshwar HPS	100	0	0	0	0.00	0	0.00	0.00
	Sub Total (E)	1100	810	818	806	19.55	815	19.00	0.55
F. BBMB	Bhakra HPS	1480	949	1076	860	23.27	970	22.78	0.49
	Dehar HPS	990	608	660	610	14.79	616	14.60	0.20
	Pong HPS	396	295	366	246	7.43	310	7.08	0.35
	Sub Total (F)	2866	1852	2102	1716	45.49	1895	44.46	1.03
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	190	190	4.04	169	3.69	0.35
	KWHEP HPS(IPP)	500	0	0	0	0.00	0	0.00	0.00
	Sub Total (G)	692	0	190	190	4.04	169	3.69	0.35
H. Total Regional Entities (A-G)	19875	14978	16077	15700	364.03	15168	359.63	4.40	

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	1156
	Guru Nanak Dev TPS(Bhatinda)	440	297.00	295.00	6.10	254
	Guru Hargobind Singh TPS(L.mbt)	920	947.00	937.00	20.79	866
	Thermal (Total)	2620	2504.00	2492.00	54.64	2277
	Total Hydro	1148	1097.00	758.00	22.42	934
	Total Punjab	3768	3601	3250	77.06	3211
Haryana	Panipat TPS	1360	909.00	1179.00	24.83	1035
	DCRTPP (Yamuna nagar)	600	477.00	485.00	10.64	443
	Faridabad GPS (NTPC)	432	396.00	401.00	9.47	394
	RGTPP (khedar) (IPP)	1200	635.00	848.00	18.62	776
	Magnum Diesel (IPP)	25	0.00	0.00	0.00	0
	Thermal (Total)	3617	2417.00	2913.00	63.56	2648
	Total Hydro	62	43.00	42.00	1.07	45
	Total Haryana	3679	2460	2955	64.63	2693
Rajasthan	kota TPS	1240	826.00	959.00	20.05	835
	suratgarh TPS	1500	1070.00	1124.00	26.89	1120
	Chabra TPS	500	222.00	220.00	4.87	203
	Dholpur GPS	330	266.00	273.00	6.62	276
	Ramgarh GPS	113	64.00	64.00	1.60	67
	RAPS A (NPC)	300	173.00	174.00	4.30	179
	Barsingsar (NLC)	250	0.00	0.00	0.00	0
	Giral LTPS (IPP)	250	64.00	52.00	1.52	63
	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	2685.00	2866.00	65.84	2743
	Total Hydro	550	0.00	0.00	0.00	0
	Wind power	1294	154.00	113.00	3.33	139
	Biomass	71	27.00	27.00	0.64	27
	Renewable/Others (Total)	1365	181	140	3.97	165
	Total Rajasthan	6668	2866	3006	69.81	2909
	UP	Anpara TPS	1630	1466	1517	31.70
Obra TPS		1442	477	347	9.20	383
Paricha TPS		640	402	399	8.50	354
Panki TPS		210	82	72	1.60	67
Harduaganj TPS		375	0	0	0.00	0
Tanda TPS (NTPC)		440	201	199	5.47	228
Roza TPS (IPP)		600	567	547	13.23	551
Thermal (Total)		5337	3195	3081	69.70	2904
Vishnuparyag HPS (IPP)		400	436	436	10.46	436
Other Hydro		527	270	47	4.70	196
Cogeneration		951	50	50	1.20	50
Total UP		7215	3951	3614	86.05	3150
Uttarakhand		Total Hydro	1303	889	507	17.82
	Total Uttarakhand	1303	889	507	17.82	742
Delhi	Rajghat TPS	135	0	0	0.00	0
	Delhi Gas Turbine	282	140	149	3.62	151
	Pragati Gas Turbine	330	293	297	7.35	306
	Rithala GPS	108	25	29	0.90	37
	Bawana GPS	440	0	0	0.00	0
	Badarpur TPS (NTPC)	705	610	575	13.12	547
	Thermal (Total)	2000	1068	1050	24.98	1041
	Total Delhi	2000	1068	1050	24.98	1041
HP	Baspa HPS (IPP)	330	330	330	7.92	330
	Malana HPS (IPP)	101	105	105	2.51	105
	Other Hydro	571	558	555	13.08	545
	Total HP	1002	993	990	23.51	979
J & K	Baglihar HPS (IPP)	450	438	438	10.51	438
	Other Hydro	323	155	195	4.10	171
	Gas/Diesel/Others	183	0	0	0.00	0
	Total J & K	956	593	633	14.61	609
Total State Control Area Generation		26591	16421	16005	378.45	15333
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			4151	4867	113.42	4726
Total Regional Availability(Gross)		46466	36649	36572	855.90	35227

IV. Total Hydro Generation:

Regional Entities Hydro	9233	6019	5457	136.67	5695
State Control Area Hydro	5365	3885	2977	84.12	3505
Total Regional Hydro	14597	9904	8434	220.78	9199

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	12.09	0.00	12.09
Gwalior-Agra (D/C)	886	1150	1251	0	26.10	0.00	26.10
Zerda-Kankroli	76	237	269	6	3.62	0.00	3.62
Zerda-Bhinmal	153	293	359	0	4.74	0.00	4.74
Malanpur-Auraiya	-94	-27	0	94	0.00	0.61	-0.61
Badod-Kota/Morak	47	119	125	0	2.05	0.00	2.05
Sub Total WR	1521	2153			46.55	0.61	45.94
Pusauli Bypass	53	155	200	0	2.80	0.00	2.80
MZP- GKP (D/C)	1086	1290	1436	0	30.77	0.00	30.77
Patna-Balia(D/C)	675	593	807	0	16.01	0.00	16.01
B'Sharif-Balia (D/C)	696	570	862	0	14.80	0.00	14.80
Pusauli-Sahupuri	156	138	188	0	3.90	0.00	3.90
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	2630	2714			68.28	0.80	67.48
Total IR Exch	4151	4867			114.83	1.41	113.42

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
27.72	3.53	31.25	26.93	33.73	-0.30	3.19	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
57.88	36.64	94.52	67.48	45.94	113.42	9.60	9.30	18.90

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	0.30	2.70	21.70	59.80	78.30	40.20	1.30	0.00

<----- Frequency (Hz) ----->				Average Frequency Hz	Frequency Variation Index	Std. Dev.	Frequency in 15 Min Block	
Maximum		Minimum					MAX (Hz)	MIN (Hz)
Freq	Time	Freq	Time					
50.13	13.05	48.98	12.11	49.64	1.70	0.19	50.00	49.28

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	401	20:09	394	14:22	0.0	0.0	0.0	0.0
Gorakhpur	400	418	07:06	10	03:07	0.4	0.4	0.0	0.0
Bareilly	400	417	08:00	383	16:24	0.0	2.7	0.0	0.0
Kanpur	400	412	09:00	389	14:21	0.0	0.3	0.0	0.0
Dadri	400	405	20:17	386	14:33	0.0	8.3	0.0	0.0
Ballabgarh	400	411	20:13	387	14:24	0.0	3.3	0.0	0.0
Bawana	400	408	20:13	385	14:33	0.0	5.9	0.0	0.0
Bassi	400	423	20:13	393	14:22	0.0	0.0	0.7	0.0
Hissar	400	407	20:13	383	14:24	0.0	6.1	0.0	0.0
Moga	400	412	20:13	391	12:10	0.0	0.0	0.0	0.0
Abdullapur	400	415	20:13	282	09:29	0.3	1.0	0.0	0.0
Nalagarh	400	420	07:03	394	14:34	0.0	0.0	0.0	0.0
Kishenpur	400	415	03:39	400	12:11	0.0	0.0	0.0	0.0
Wagoora	400	412	08:40	378	09:08	0.4	1.6	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	496.06	937.45	485.92	610.92	2332.80	744.51
Pong	426.72	384.05	414.00	644.91	398.30	185.67	1910.17	453.52
Tehri	829.79	740.04	780.25	320.38	NA	NA	687.16	536.00
Koteshwar	612.50	598.50	605.00	2.46	NA	NA	525.00	NA
Chamera-I	760.00	748.75	756.48	12.72	755.02	NA	498.48	352.53
Rihand	268.22	252.98	258.47	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	509.40	NA	505.92	NA	476.03	335.70

IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

XI. Weather Conditions For 26.07.2011 :

1 : 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 : 26.07.2011

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER