पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)

उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 19.07.2011
Date of Reporting : 20.07.2011

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
36340	1046	37386	49.77	34989	425	35414	50.06	838.1	18.55

* 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	Actual Drawal	UI	Consumption	Shortages *
	Thermal	Hydro	Renewable/others	Total	(Net MU)	(Net MU)	(Net MU)	(Net MU)	(MU)
Punjab	51.51	20.57		72.08	118.33	113.93	-4.40	186.01	1.80
Haryana	62.20	1.05		63.26	70.71	70.30	-0.41	133.56	0.39
Rajasthan	62.57	0.01	9.03	71.61	36.54	51.30	14.76	122.91	1.40
Delhi	22.62			22.62	76.61	72.39	-4.22	95.02	0.05
UP	66.55	12.75	1.20	80.51	134.55	132.85	-1.70	213.36	14.65
Uttarakhand		21.45		21.45	8.52	8.80	0.28	30.25	0.26
HP		23.89		23.89	-1.33	-0.31	1.02	23.58	0.00
J & K		14.75	0.00	14.75	11.96	13.20	1.23	27.95	0.00
Chandigarh				0.00	6.09	5.51	-0.58	5.51	0.00
Total	**265.46**	**94.48**	**10.23**	**370.17**	**461.98**	**467.97**	**5.99**	**838.14**	**18.55**

*** 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 transactio	Demand Met	Shortage	UI	STOA/PX transaction	STOA/PX transaction
Punjab	8119	150	118	2233	8088	0	-191	2739	60.93
Haryana	5964	0	-169	1173	5466	0	-66	1182	24.71
Rajasthan	5189	66	130	-41	5138	0	782	-553	-7.86
Delhi	4397	0	-150	420	3442	0	-336	282	9.71
UP	8896	750	-68	1763	9755	425	964	1249	40.48
Uttarakhand	1371	80	118	-151	1197	0	-78	-151	-3.62
HP	894	0	-71	-1704	866	0	9	-1198	-39.33
J&K	1247	0	58	-597	860	0	-120	-590	-14.51
Chandigarh	263	0	-17	29	177	0	-23	54	1.20
Total	**36340**	**1046**	**-51**	**3124**	**34989**	**425**	**941**	**3014**	**71.70**

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

III. Regional Entities :

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

	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	1839	1861	41.68	1737	41.27	0.42
	Rihand I STPS	1000	956	990	1047	23.02	959	22.88	0.14
	Rihand II STPS	1000	965	1032	1042	23.32	972	23.04	0.28
	Dadri I STPS	840	800	867	808	16.77	699	16.29	0.48
	Dadri II STPS	980	960	1014	929	21.29	887	21.43	-0.14
	Unchahar I TPS	440	264	219	440	6.29	262	6.24	0.06
	Unchahar II TPS	440	593	435	434	9.57	399	9.31	0.26
	Unchahar III TPS	210	196	218	222	4.74	198	4.58	0.16
	ISTPP (Jhajjar)	500	469	434	432	9.47	395	10.24	-0.77
	Dadri GPS	830	584	548	515	11.69	487	11.68	0.01
	Anta GPS	419	383	257	248	6.12	255	6.20	-0.08
	Auraiya GPS	663	611	451	465	9.82	409	10.65	-0.83
	Sub Total (A)	**9322**	**8501**	**8303.55**	**8442.84**	**183.78**	**7658**	**183.80**	**-0.02**
B. NPC	NAPS	440	185	214	223	4.44	185	4.44	0.00
	RAPS- B	440	389	430	431	9.21	384	9.34	-0.12
	RAPS- C	440	410	464	470	10.05	419	9.84	0.21
	Sub Total (B)	**1320**	**984**	**1108**	**1124**	**23.70**	**987**	**23.62**	**0.08**
C. NHPC	Chamera I HPS	540	534	540	540	12.94	539	12.82	0.12
	Chamera II HPS	300	297	302	300	7.20	300	7.24	-0.04
	Bairasuil HPS	180	179	217	220	2.27	94	2.45	-0.18
	Salal-HPS	690	631	631	631	15.18	633	15.14	0.04
	Tanakpur-HPS	94	94	94	94	2.27	94	2.17	0.10
	Uri-HPS	480	376	411	360	8.58	358	8.20	0.39
	Dhauliganga-HPS	280	277	283	253	6.65	277	6.53	0.12
	Dulhasti-HPS	390	387	409	410	9.31	388	9.11	0.20
	Sewa-II HPS	120	119	118	81	0.84	35	0.81	0.03
	Sub Total (C)	**3074**	**2893**	**3005**	**2889**	**65.23**	**2718**	**64.46**	0.78
D.NJPC	Nathpa Jhakri	1500	1332	1607	0	32.63	1360	32.56	0.07
	Sub Total (D)	1500	1332	1607	0	32.63	1360	32.56	0.07
E. THDC	Tehri HPS	1000	760	760	758	17.81	742	17.75	0.06
	Koteshwar HPS	100	0	0	0	0.00	0	0.00	0.00
	Sub Total (E)	**1100**	**760**	**760**	**758**	**17.81**	**742**	**17.75**	0.06
F. BBMB	Bhakra HPS	1480	898	1065	861	22.01	917	21.56	0.45
	Dehar HPS	990	608	660	650	15.12	630	14.60	0.52
	Pong HPS	396	294	366	246	7.23	301	7.07	0.16
	Sub Total (F)	**2866**	**1801**	**2091**	**1757**	**44.36**	**1848**	**43.22**	1.14
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	151	180	2.92	122	3.07	-0.15
	KWHEP HPS(IPP)	500	0	594	594	14.26	594	14.23	0.03
	Sub Total (G)	692	0	745	774	17.17	716	17.30	-0.12
H. Total Regional Entities (A-G)		**19875**	**16271**	**17620**	**15745**	**384.68**	**16028**	**382.70**	**1.99**

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	1260.00	25.82	1076
	Guru Nanak Dev TPS(Bhatinda)	440	280.00	280.00	5.79	241
	Guru Hargobind Singh TPS(L.mbt)	920	921.00	946.00	19.90	829
	Thermal (Total)	2620	2251.00	2486.00	51.51	2146
	Total Hydro	1148	1120.00	760.00	20.57	857
	Total Punjab	**3768**	**3371**	**3246**	**72.08**	**3003**
Haryana	Panipat TPS	1360	1141.00	1156.00	27.76	1156
	DCRTPP (Yamuna nagar)	600	291.00	275.00	6.41	267
	Faridabad GPS (NTPC)	432	390.00	321.00	8.63	360
	RGTPP (khedar) (IPP)	1200	898.00	773.00	19.41	809
	Magnum Diesel (IPP)	25	0.00	0.00	0.00	0
	Thermal (Total)	3617	2720.00	2525.00	62.20	2592
	Total Hydro	62	40.00	40.00	1.05	44
	Total Haryana	**3679**	**2760**	**2565**	**63.26**	**2636**
Rajasthan	kota TPS	1240	725.00	729.00	17.64	735
	suratgarh TPS	1500	1125.00	1140.00	27.52	1147
	Chabra TPS	500	223.00	227.00	5.31	221
	Dholpur GPS	330	273.00	280.00	6.27	261
	Ramgarh GPS	113	64.00	64.00	1.59	66
	RAPS A (NPC)	300	173.00	174.00	4.24	177
	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	2583.00	2614.00	62.57	2607
	Total Hydro	550	4.00	0.00	0.01	1
	Wind power	1294	655.00	517.00	8.67	361
	Biomass	71	16.00	16.00	0.36	15
	Renewable/Others (Total)	1365	671	533	9.03	376
	Total Rajasthan	**6668**	**3258**	**3147**	**71.61**	**2984**
UP	Anpara TPS	1630	1568	1517	33.00	1375
	Obra TPS	1442	325	332	7.20	300
	Paricha TPS	640	250	251	5.40	225
	Panki TPS	210	70	75	1.50	63
	Harduaganj TPS	375	0	0	0.00	0
	Tanda TPS (NTPC)	440	285	281	6.78	282
	Roza TPS (IPP)	600	549	549	12.68	528
	Thermal (Total)	5337	3047	3005	66.55	2773
	Vishnuparyag HPS (IPP)	400	436	436	10.46	436
	Other Hydro	527	97	23	2.30	96
	Cogeneration	951	50	50	1.20	50
	Total UP	**7215**	**3630**	**3514**	**80.51**	**2919**
Uttarakhand	Total Hydro	1303	902	906	21.45	894
	Total Uttarakhand	**1303**	**902**	**906**	**21.45**	**894**
Delhi	Rajghat TPS	135	0	0	0.00	0
	Delhi Gas Turbine	282	107	110	2.77	115
	Pragati Gas Turbine	330	289	297	7.30	304
	Rithala GPS	108	48	29	1.00	42
	Bawana GPS	440	0	0	0.00	0
	Badarpur TPS (NTPC)	705	555	505	11.56	481
	Thermal (Total)	2000	999	941	22.62	943
	Total Delhi	**2000**	**999**	**941**	**22.62**	**943**
HP	Baspa HPS (IPP)	330	330	330	7.93	330
	Malana HPS (IPP)	101	105	95	2.41	101
	Other Hydro	571	567	565	13.55	565
	Total HP	**1002**	**1002**	**990**	**23.89**	**995**
J & K	Baglihar HPS (IPP)	450	438	439	10.55	440
	Other Hydro	323	174	144	4.20	175
	Gas/Diesel/Others	183	0	0	0.00	0
	Total J & K	**956**	**612**	**583**	**14.75**	615
Total State Control Area Generation		**26591**	**16534**	**15892**	**370.17**	**14988**
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			**4341**	**4549**	**106.04**	**4418**
Total Regional Availability(Gross)		**46466**	**38495**	**36186**	**860.89**	**35435**

IV. Total Hydro Generation:

Regional Entities Hydro	**9233**	**8208**	**6178**	**177.20**	**7383**
State Control Area Hydro	**5365**	**3777**	**3302**	**84.03**	**3501**
Total Regional Hydro	**14597**	**11985**	**9480**	**261.23**	**10885**

V(A). Inter Regional Exchange [Import (+ve)/Export (-ve)] [Linkwise]

Element	Peak(20:00 Hrs) MW	Off Peak(03:00 Hrs) MW	Maximum Interchange (MW) Import	Maximum Interchange (MW) Export	Energy (MU) Import	Energy (MU) Export	Net Energy MU
Vindhychal B/B	500	500	500	0	10.70	0.00	10.70
Gwalior-Agra (D/C)	1087	1204	1569	0	28.66	0.00	28.66
Zerda-Kankroli	499	278	674	0	9.24	0.00	9.24
Zerda-Bhinmal	0	323	407	0	3.56	0.00	3.56
Malanpur-Auraiya	1	42	0	31	0.72	0.00	0.72
Badod-Kota/Morak	70	106	324	0	3.30	0.00	3.30
Sub Total WR	**2087**	**2347**			**52.89**	**0.00**	**52.89**
Pusauli Bypass	69	53	189	42	1.80	0.10	1.71
MZP- GKP (D/C)	1024	1106	1224	0	26.62	0.00	26.62
Patna-Balia(D/C)	545	379	628	0	10.16	0.00	10.16
B'Sharif-Balia (D/C)	430	492	550	0	10.04	0.00	10.04
Pusauli-Sahupuri	186	172	196	0	4.62	0.00	4.62
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	**2254**	**2202**			**53.25**	**0.10**	**53.15**
Total IR Exch	**4341**	**4549**			**106.13**	**0.10**	**106.04**

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
21.71	3.81	25.52	25.09	35.15	4.64	4.72	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
55.25	39.67	94.92	53.15	52.89	106.04	-2.10	13.22	11.12

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	1.90	10.40	87.10	78.60	44.90	11.00

<---------- 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)
50.49	6.05	49.35	19.16	49.96	0.41	0.20	50.16	0.00

VII. Voltage profile

Station	Voltage Level (kV)	Maximum Voltage(KV)	Maximum Time	Minimum Voltage (KV)	Minimum Time	Voltage (in % of Time) <380 kV	<390 kV	>420 kV	>430 kV
Rihand	400	405	07:59	397	00:00	0.0	0.0	0.0	0.0
Gorakhpur	400	432	08:20	76	18:05	0.0	0.0	35.7	2.2
Bareilly	400	419	08:00	390	23:15	0.0	0.0	0.0	0.0
Kanpur	400	414	09:00	390	12:47	0.0	0.0	0.0	0.0
Dadri	400	409	08:01	0	12:49	2.6	2.6	0.0	0.0
Ballabhgarh	400	414	07:59	389	12:46	0.0	0.2	0.0	0.0
Bawana	400	409	04:01	387	12:46	0.0	1.2	0.0	0.0
Bassi	400	423	18:33	393	12:46	0.0	0.0	4.6	0.0
Hissar	400	406	04:01	384	15:47	0.0	7.6	0.0	0.0
Moga	400	408	03:40	385	15:47	0.0	4.1	0.0	0.0
Abdullapur	400	412	03:01	280	09:14	0.0	0.0	0.0	0.0
Nalagarh	400	419	03:29	387	15:47	0.0	1.8	0.0	0.0
Kishenpur	400	412	04:02	389	14:19	0.0	1.1	0.0	0.0
Wagoora	400	408	03:38	383	21:16	0.0	12.7	0.0	0.0

VIII. Reservior Parameters:

Name of Reservior	Parameters FRL (m)	Parameters MDDL (m)	Present Parameters Level (m)	Present Parameters Energy (MU)	Last Year Level (m)	Last Year Energy (MU)	Last day Inflow (m^3/s)	Last day Usage (m^3/s)
Bhakra	513.59	445.62	492.08	798.09	478.69	427.60	1143.32	711.77
Pong	426.72	384.05	412.54	577.87	395.28	131.24	494.10	453.27
Tehri	829.79	740.04	772.55	240.72	NA	NA	489.34	512.00
Koteshwar	612.50	598.50	NA	NA	NA	NA	NA	NA
Chamera-I	760.00	748.75	756.75	12.81	756.50	NA	371.94	350.83
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 19.07.2011 :

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 : 19.07.2011 **पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER**