पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)

उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 30.06.2012
Date of Reporting : 01.07.2012

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
37343	4998	42341	49.68	39578	3753.55	43331	49.68	917.6	112.72

* Half hourly (two 15 minutes block--one block each before and after the designated time) average frequency

II. A. State's Load 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	52.23	18.73		70.97	120.24	122.28	2.04	193.24	27.61
Haryana	51.98	0.73		52.71	60.60	67.18	6.58	119.88	27.13
Rajasthan	82.71	0.00	22.33	105.04	49.01	51.63	2.62	156.66	3.35
Delhi	31.98			31.98	80.57	75.77	-4.80	107.75	0.51
UP	82.54	14.00	3.60	100.14	105.81	149.13	43.32	249.28	47.69
Uttarakhand		18.14		18.14	12.37	14.76	2.38	32.90	2.68
HP		19.38		19.38	5.36	4.50	-0.86	23.88	0.81
J & K		15.04	0.00	15.04	13.22	12.83	-0.39	27.87	2.95
Chandigarh				0.00	6.84	6.16	-0.67	6.16	0.00
Total	**301.44**	**86.02**	**25.93**	**413.39**	**454.01**	**504.24**	**50.22**	**917.63**	**112.72**

*** Shortage furnished by the respective constituent.$ Others include UP Co-generation and JK Diesel**

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	8302	1204	144	1857	7944	1050	-246	1925	45.90
Haryana	5088	1410	442	456	5260	647	281	456	10.94
Rajasthan	6264	179	218	-184	6537	236	116	-184	-4.40
Delhi	4591	0	30	627	4429	0	-229	502	15.45
UP	9428	1975	982	0	11901	1720	2423	50	1.50
Uttarakhand	1526	80	176	38	1396	0	232	30	0.78
HP	837	0	-226	-1368	924	0	-93	-1344	-33.18
J&K	1047	150	-255	-578	948	100	-175	-578	-14.12
Chandigarh	260	0	-38	40	238	0	-31	20	1.20
Total	**37343**	**4998**	**1472**	**888**	**39578**	**3753.55**	**2279**	**877**	**24.07**

* 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	1895	2069	2076	45.66	1902	45.47	0.18
	Rihand I STPS	1000	868	948	953	20.94	872	20.83	0.11
	Rihand II STPS	1000	674	1017	628	16.37	682	16.18	0.19
	Rihand III STPS	500		0	0	0.00	0		0.00
	Dadri I STPS	840	793	858	855	19.15	798	19.04	0.11
	Dadri II STPS	980	894	1001	1018	21.38	891	21.46	-0.09
	Unchahar I TPS	420	394	436	423	9.52	397	9.45	0.07
	Unchahar II TPS	420	400	441	441	9.63	401	9.61	0.02
	Unchahar III TPS	210	201	219	220	4.85	202	4.81	0.03
	ISTPP (Jhajjhar)	1000	664	637	717	15.88	662	15.88	0.01
	Dadri GPS	830	760	678	712	16.52	688	16.41	0.10
	Anta GPS	419	382	345	385	8.70	363	8.00	0.70
	Auraiya GPS	663	605	578	596	13.63	568	13.02	0.61
	Sub Total (A)	**10282**	**8530**	**9227**	**9024**	**202.21**	**8425**	**200.15**	**2.06**
B. NPC	NAPS	440	255	292	299	6.08	253	6.12	-0.04
	RAPS- B	440	392	437	434	9.40	391	9.41	-0.01
	RAPS- C	440	210	230	218	4.88	203	5.04	-0.16
	Sub Total (B)	**1320**	**857**	**959**	**951**	**20.35**	**848**	**20.57**	**-0.22**
C. NHPC	Chamera I HPS	540	534	540	540	12.51	521	12.45	0.06
	Chamera II HPS	300	300	302	300	7.25	302	7.21	0.03
	Chamera III HPS	231		231	210	5.19	216		5.19
	Bairasuil HPS	180	182	150	120	2.49	104	2.13	0.36
	Salal-HPS	690	649	647	648	15.50	646	15.58	-0.07
	Tanakpur-HPS	94	77	93	68	1.95	81	1.84	0.11
	Uri-HPS	480	471	480	480	11.63	484	11.62	0.01
	Dhauliganga-HPS	280	76	277	0	1.77	74	1.80	-0.04
	Dulhasti-HPS	390	387	406	413	9.24	385	9.00	0.24
	Sewa-II HPS	120	80	83	83	1.23	51	1.18	0.04
	Sub Total (C)	**3305**	**2756**	**3209**	**2862**	**68.74**	**2864**	**62.82**	5.93
D.NJPC	Nathpa Jhakri	1500	1600	1617	1613	38.60	1608	38.40	0.20
	Sub Total (D)	1500	1600	1617	1613	38.60	1608	38.40	0.20
E. THDC	Tehri HPS	1000	540	362	546	8.67	361	8.50	0.17
	Koteshwar HPS	400	265	161	277	4.00	167	3.90	0.10
	Sub Total (E)	**1400**	**805**	**523**	**823**	**12.67**	**528**	**12.40**	0.27
F. BBMB	Bhakra HPS	1480	914	1116	762	22.49	937	21.94	0.55
	Dehar HPS	990	603	825	660	15.03	626	14.47	0.56
	Pong HPS	396	217	312	165	5.39	225	5.21	0.18
	Sub Total (F)	**2866**	**1734**	**2253**	**1587**	**42.91**	**1788**	**41.62**	1.29
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	176	147	3.57	149	3.55	0.02
	KWHEP HPS(IPP)	1000	0	1200	1200	28.73	1197	28.65	0.08
	Malana Stg-II HPS	100	0	103	82	1.90	79	0.00	1.90
	Shree Cement TPS	300	0	287	283	6.83	285	6.62	0.21
	Budhil HPS(IPP)	70		72	72	1.70	71		1.70
	Sub Total (G)	1662	0	1838	1784	42.73	1780	38.83	3.90
H. Total Regional Entities (A-G)		**22336**	**16282**	**19626**	**18644**	**428.21**	**17842**	**414.78**	**13.43**

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	1246	1255	27.94	1164
	Guru Nanak Dev TPS(Bhatinda)	440	210	210	4.39	183
	Guru Hargobind Singh TPS(L.mbt)	920	889	913	19.91	830
	Thermal (Total)	2620	2345	2378	52.23	2176
	Total Hydro	1148	783	783	18.73	781
	Total Punjab	**3768**	**3128**	**3161**	**70.97**	**2957**
Haryana	Panipat TPS	1367	841	1099	23.48	978
	DCRTPP (Yamuna nagar)	600	0	0	0.00	0
	Faridabad GPS (NTPC)	432	358	372	8.72	363
	RGTPP (khedar) (IPP)	1200	536	556	13.39	558
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	1320	238	491	6.38	266
	Thermal (Total)	4944	1973	2518	51.98	2166
	Total Hydro	62	25	23	0.73	30
	Total Haryana	**5006**	**1998**	**2541**	**52.71**	**2196**
Rajasthan	kota TPS	1240	977	975	22.99	958
	suratgarh TPS	1500	1370	1369	32.34	1347
	Chabra TPS	500	223	216	5.22	218
	Dholpur GPS	330	86	91	2.68	112
	Ramgarh GPS	111	56	54	1.35	56
	RAPS A (NPC)	300	175	175	4.22	176
	Barsingsar (NLC)	250	183	186	4.78	199
	Giral LTPS	250	59	35	1.21	50
	Rajwest LTPS (IPP)	540	338	338	7.93	331
	VSLP LTPS (IPP)	135	0	0	0.00	0
	Thermal (Total)	5156	3467	3439	82.71	3446
	Total Hydro	550	0	0	0.00	0
	Wind power	1843	613	819	21.27	886
	Biomass	91	28	28	0.67	28
	Solar	128	0	0	0.40	17
	Renewable/Others (Total)	2062	641	847	22.33	930
	Total Rajasthan	**7767**	**4108**	**4286**	**105.04**	**4377**
UP	Anpara TPS	1630	787	669	17.70	738
	Obra TPS	1382	415	416	10.20	425
	Paricha TPS	890	280	333	7.50	313
	Panki TPS	210	68	72	1.60	67
	Harduaganj TPS	665	194	188	3.80	158
	Tanda TPS (NTPC)	440	297	292	7.22	301
	Roza TPS (IPP)	1200	824	824	19.57	815
	Anpara-C (IPP)	1200	442	453	7.63	318
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	273	311	7.32	305
	Thermal (Total)	8067	3580	3558	82.54	3439
	Vishnuparyag HPS (IPP)	400	436	436	10.45	435
	Other Hydro	527	155	0	3.55	148
	Cogeneration	981	150	150	3.60	150
	Total UP	**9975**	**4321**	**4144**	**100.14**	**3737**
Uttarakhand	Total Hydro	1303	810	622	18.14	756
	Total Uttarakhand	**1303**	**810**	**622**	**18.14**	**756**
Delhi	Rajghat TPS	135	98	90	2.10	87
	Delhi Gas Turbine	282	205	214	5.06	211
	Pragati Gas Turbine	330	266	279	6.62	276
	Rithala GPS	108	29	29	0.57	24
	Bawana GPS	677	215	215	5.33	222
	Badarpur TPS (NTPC)	705	545	575	12.31	513
	Thermal (Total)	2237	1358	1402	31.98	1333
	Total Delhi	**2237**	**1358**	**1402**	**31.98**	**1333**
HP	Baspa HPS (IPP)	330	330	330	7.92	330
	Malana HPS (IPP)	86	77	77	1.58	66
	Other Hydro	589	418	410	9.88	412
	Total HP	**1005**	**825**	**817**	**19**	**808**
J & K	Baglihar HPS (IPP)	450	437	437	10.49	437
	Other Hydro	323	178	197	4.55	189
	Gas/Diesel/Others	183	0	0	0.00	0
	Total J & K	**956**	**615**	**634**	**15.04**	626
Total State Control Area Generation		**32017**	**17163**	**17607**	**413.39**	**16789**
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			**3232**	**4137**	**99.10**	**4129**
Total Regional Availability(Gross)		**54353**	**40021**	**40388**	**940.70**	**38760**

IV. Total Hydro Generation:

Regional Entities Hydro	**10364**	**9081**	**8314**	**197.12**	**8213**
State Control Area Hydro	**5368**	**3213**	**2879**	**75.57**	**3149**
Total Regional Hydro	**15731**	**12294**	**11193**	**272.69**	**11362**

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
	MW	MW	Import	Export	Import	Export	MU
Vindhychal B/B	150	200	500	0	5.34	0.00	5.34
Gwalior-Agra (D/C)	1026	912	1408	0	23.89	0.00	23.89
Zerda-Kankroli	117	56	238	114	2.28	0.00	2.28
Zerda-Bhinmal	153	64	308	100	2.51	0.00	2.51
Malanpur-Auraiya	-97	-44	0	-97	0.00	0.64	-0.64
Badod-Kota/Morak	0	0	0	0	0.00	0.00	0.00
Mundra-Mohindergarh(HVDC)	0	0	0	0	0.00	0.00	0.00
Sub Total WR	**1349**	**1188**			**34.01**	**0.64**	**33.37**
Pusauli Bypass	200	300	300	0	6.24	0.00	6.24
MZP- GKP (D/C)	514	952	1040	0	21.12	0.00	21.12
Patna-Balia(D/C)	461	456	616	0	12.37	0.00	12.37
B'Sharif-Balia (D/C)	334	475	627	0	10.99	0.00	10.99
Barh - Balia(D/C)	282	558	596	0	9.85	0.00	9.85
Pusauli-Balia	0	-17	0	66	0.00	0.16	-0.16
Gaya-Fatehpur (765 Kv)	-27	77	207	27	2.38	0.00	2.38
Pusauli-Sahupuri	159	173	184	0	3.89	0.00	3.89
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-40	-25	0	47	0.00	0.97	-0.97
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sub Total ER	**1883**	**2949**			**66.85**	**1.13**	**65.72**
Total IR Exch	**3232**	**4137**			**100.86**	**1.77**	**99.10**

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
29.63	2.83	32.46	0.46	21.33	-3.44	-0.19	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
29.47	22.26	51.73	65.72	33.37	99.10	36.25	11.11	47.36

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	1.90	7.60	45.60	83.60	54.40	16.40	0.20	0.00

<---------- Frequency (Hz) ---------->				Average	Frequency	Std. Dev.	Frequency in 15 Min Block	
Maximum		Minimum		Frequency	Variation		MAX	MIN
Freq	Time	Freq	Time	Hz	Index		(Hz)	(Hz)
50.05	18.04	48.89	23.21	49.51	2.83	0.21	50.01	49.10

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	405	18:55	398	13:33	0.0	0.0	0.0	0.0
Gorakhpur	400	425	20:39	394	0:12	0.0	0.0	19.8	0.0
Bareilly	400	418	19:23	389	14:31	0.0	0.0	0.0	0.0
Kanpur	400	410	6:05	387	17:24	0.0	0.7	0.0	0.0
Dadri	400	408	19:51	387	17:17	0.0	3.0	0.0	0.0
Ballabhgarh	400	416	19:51	390	17:23	0.0	0.0	0.0	0.0
Bawana	400	408	20:53	399	23:16	0.0	0.0	0.0	0.0
Bassi	400	419	6:04	390	17:27	0.0	0.0	0.0	0.0
Hissar	400	409	19:51	385	17:23	0.0	4.0	0.0	0.0
Moga	400	414	5:59	386	17:09	0.0	1.6	0.0	0.0
Abdullapur	400	414	12:32	395	17:45	0.0	0.0	0.0	0.0
Nalagarh	400	0	0:00	9999	0:00	0.0	0.0	0.0	0.0
Kishenpur	400	409	1:54	394	17:08	0.0	0.0	0.0	0.0
Wagoora	400	408	1:56	390	17:10	0.0	0.0	0.0	0.0

VIII. Reservior Parameters:

Name of Reservior	Parameters		Present Parameters		Last Year		Last day	
	FRL (m)	MDDL (m)	Level (m)	Energy (MU)	Level (m)	Energy (MU)	Inflow (m^3/s)	Usage (m^3/s)
Bhakra	513.59	445.62	467.71	230.40	485.35	593.99	865.50	836.56
Pong	426.72	384.05	394.31	116.59	411.83	555.83	162.54	480.65
Tehri	829.79	740.04	743.85	17.23	818.65	982.26	316.93	353.00
Koteshwar	612.50	598.50	605.60	2.46	NA	NA	355.00	301.00
Chamera-I	760.00	748.75	753.69	NA	NA	NA	292.15	349.32
Rihand	268.22	252.98	254.42	53.70	256.00	116.30	NA	NA
RPS	352.80	343.81	349.75	NA	345.32	NA	NA	NA
Jawahar Sagar	298.70	295.78	297.70	NA	297.76	NA	NA	NA
RSD	527.91	487.91	499.58	NA	510.24	NA	271.13	254.79

*** NA: Not Available**

IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

XI. Weather Conditions For 30.06.2012 :

1. Hot dry weather

XII. Synchronisation of new generating units :

XIII. Synchronisation of new 220 / 400 / 765 KV lines and energising of bus / /substation :

1: 400kV Balia-Sohawal (LKO)PG-ckt.2 & 400kV LKO (PG)- Sohawal (LKO)PG-ckt.2 first time charged at 15.21hrs dt 30.06.12 respectively after LILO of 400kV Balia-LKO(PG)- ckt.2 at Sohawal (LKO)PG new s/s.

2: 315 MVA ICT-1&2 first time charged at Sohawal PG new s/s at 18.00hrs & 18.30hrs of dt 30.06.12 respectively.

3: 500kV Balia-Bhiwadi (HVDC) Pole-2 first time charged at 22.58hrs of dt 30.06.12 with power flow of 125MW from Balia to Bhiwadi.

XIV. Tripping of lines in pooling stations :

XV. Complete generation loss in a generating station :

Report for : 30.06.2012 **पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER**