

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 31.05.2012
Date of Reporting : 01.06.2012

I. Regional Availability/Demand:

Demand Met	Evening Peak (20:00 Hrs) MW			Demand Met	Off Peak (03:00 Hrs) MW			Day Energy (Net MU)	
	Shortage	Requirement	Freq* (Hz)		Shortage	Requirement	Freq* (Hz)	Demand Met	Shortage
34937	3395	38332	49.73	35495	3351	38846	49.72	837.0	79.96

* 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:

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	45.45	17.19		62.64	78.14	82.55	4.41	145.19	4.99
Haryana	33.46	0.75		34.21	45.63	67.84	22.21	102.05	25.27
Rajasthan	83.03	0.00	25.23	108.26	44.09	41.39	-2.70	149.66	1.62
Delhi	32.23			32.23	82.99	72.89	-10.11	105.12	0.00
UP	97.42	14.79	7.20	119.41	93.11	122.61	29.50	242.02	43.23
Uttarakhand		19.80		19.80	12.19	12.51	0.31	32.31	1.68
HP		17.30		17.30	10.54	6.52	-4.02	23.82	0.22
J & K		15.16	0.00	15.16	18.98	15.86	-3.12	31.02	2.95
Chandigarh				0.00	5.83	5.85	0.01	5.85	0.00
Total	291.58	85.00	32.43	409.01	391.51	428.01	36.50	837.02	79.96

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

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	5727	450	49	595	5799	0	31	594	14.24
Haryana	4280	1048	839	102	4218	1482	602	102	2.45
Rajasthan	6458	116	241	-295	6499	0	-206	-395	-8.38
Delhi	4685	1	-60	575	4142	0	-594	565	15.56
UP	9737	1550	856	70	11198	1769	1967	75	1.71
Uttarakhand	1601	80	162	25	1359	0	73	26	0.63
HP	806	0	-175	-984	894	0	-356	-641	-20.06
J&K	1396	150	-93	-458	1165	100	-242	-478	-11.57
Chandigarh	247	0	-7	0	221	0	19	0	0.57
Total	34937	3395	1812	-370	35495	3351	1294	-152	-4.85

* 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)	UI [OG:(+ve), UG: (-ve)]	
								Schedule Net MU	UI Net MU
A. NTPC	Singrauli STPS	2000	1229	1353	1357	29.48	1229	29.49	0.00
	Rihand I STPS	1000	883	958	935	21.29	887	21.18	0.11
	Rihand II STPS	1000	965	1035	1042	23.35	973	23.16	0.19
	Dadri I STPS	840	798	869	865	19.18	799	19.16	0.03
	Dadri II STPS	980	942	1005	1005	22.57	940	22.60	-0.03
	Unchahar I TPS	420	402	438	436	9.30	388	9.65	-0.34
	Unchahar II TPS	420	404	442	440	9.43	393	9.70	-0.26
	Unchahar III TPS	210	201	220	218	4.69	195	4.82	-0.14
	ISTPP (Jhajjar)	1000	470	498	446	10.46	436	10.45	0.01
	Dadri GPS	830	750	678	738	15.80	658	16.02	-0.22
	Anta GPS	419	377	319	382	7.40	308	7.70	-0.30
	Auraiya GPS	663	540	425	452	10.12	422	10.19	-0.07
	Sub Total (A)	9782	7959	8240	8316	183.08	7628	184.10	-1.02
B. NPC	NAPS	440	254	281	293	6.04	251	6.10	-0.06
	RAPS- B	440	388	425	430	9.30	388	9.31	-0.01
	RAPS- C	440	210	233	234	4.92	205	5.04	-0.12
	Sub Total (B)	1320	852	939	957	20.26	844	20.45	-0.19
C. NHPC	Chamera I HPS	540	534	540	540	12.03	501	12.82	-0.79
	Chamera II HPS	300	297	302	303	7.19	299	7.22	-0.03
	Bairasuil HPS	180	182	182	182	4.06	169	4.05	0.01
	Salal-HPS	690	665	663	665	15.87	661	15.96	-0.09
	Tanakpur-HPS	94	64	77	60	1.70	71	1.61	0.10
	Uri-HPS	480	476	479	480	11.60	484	11.59	0.02
	Dhauliganga-HPS	280	278	284	284	5.48	228	6.66	-1.18
	Dulhasti-HPS	390	388	415	413	9.30	387	9.31	-0.01
	Sewa-II HPS	120	80	85	86	1.87	78	1.96	-0.09
	Sub Total (C)	3074	2963	3027	3013	69.10	2879	71.16	-2.06
D. NJPC	Nathpa Jhakri	1500	1600	1625	1619	38.44	1602	38.22	0.23
	Sub Total (D)	1500	1600	1625	1619	38.44	1602	38.22	0.23
E. THDC	Tehri HPS	1000	520	525	523	5.56	232	5.50	0.06
	Koteshwar HPS	400	300	290	100	3.19	133	3.20	-0.02
	Sub Total (E)	1400	820	815	623	8.75	365	8.70	0.05
F. BBMB	Bhakra HPS	1480	701	1141	534	17.07	711	16.82	0.25
	Dehar HPS	990	603	660	600	17.00	708	14.48	2.52
	Pong HPS	396	192	360	180	6.15	256	4.62	1.53
	Sub Total (F)	2866	1497	2161	1314	40.22	1676	35.92	4.30
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	189	223	4.89	204	4.09	0.80
	KWHEP HPS(IPP)	1000	0	1143	871	23.62	984	21.08	2.54
	Malana Stg-II HPS	100	0	55	54	1.29	54	0.00	1.29
	Shree Cement TPS	300	0	236	265	5.97	249	5.23	0.74
	Sub Total (G)	1592	0	1623	1413	35.77	1490	30.40	5.38
H. Total Regional Entities (A-G)	21535	15691	18430	17255	395.62	16484	388.94	6.67	

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	1045	840	21.94	914
	Guru Nanak Dev TPS(Bhatinda)	440	105	105	2.26	94
	Guru Hargobind Singh TPS(L.mbt)	920	956	961	21.25	885
	Thermal (Total)	2620	2106	1906	45.45	1894
	Total Hydro	1148	722	461	17.19	716
	Total Punjab	3768	2828	2367	62.64	2610
Haryana	Panipat TPS	1367	1017	1045	24.93	1039
	DCRTPP (Yamuna nagar)	600	0	0	0.00	0
	Faridabad GPS (NTPC)	432	356	368	5.73	239
	RGTPP (kheldar) (IPP)	1200	0	352	2.80	117
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	1320	0	0	0.00	0
	Thermal (Total)	4944	1373	1765	33.46	1394
	Total Hydro	62	22	20	0.75	31
	Total Haryana	5006	1395	1785	34.21	1425
Rajasthan	kota TPS	1240	881	974	21.35	889
	suratgarh TPS	1500	1283	1330	31.34	1306
	Chabra TPS	500	0	196	2.02	84
	Dholpur GPS	330	130	189	3.63	151
	Ramgarh GPS	111	26	47	0.91	38
	RAPS A (NPC)	300	173	172	4.28	178
	Barsingsar (NLC)	250	212	216	4.80	200
	Giral LTPS	250	127	140	3.08	128
	Rajwest LTPS (IPP)	540	460	460	11.62	484
	VSLP LTPS (IPP)	135	0	0	0.00	0
	Thermal (Total)	5156	3292	3724	83.03	3460
	Total Hydro	550	0	0	0.00	0
	Wind power	1843	905	1119	24.25	1010
	Biomass	91	41	41	0.98	41
	Solar	128	0	0	0.00	0
	Renewable/Others (Total)	2062	946	1160	25.23	1051
	Total Rajasthan	7767	4238	4884	108.26	4511
UP	Anpara TPS	1630	1245	1213	25.60	1067
	Obra TPS	1382	310	260	6.40	267
	Paricha TPS	640	498	638	12.40	517
	Panki TPS	210	165	170	3.50	146
	Harduaganj TPS	665	266	247	5.60	233
	Tanda TPS (NTPC)	440	289	293	7.00	292
	Roza TPS (IPP)	1200	819	826	19.72	821
	Anpara-C (IPP)	1200	396	400	9.00	375
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	392	324	8.20	342
	Thermal (Total)	7817	4380	4371	97.42	4059
	Vishnuparyag HPS (IPP)	400	0	436	10.00	417
	Other Hydro	527	216	48	4.79	200
	Cogeneration	981	300	300	7.20	300
	Total UP	9725	4896	5155	119.41	4559
	Uttarakhand	Total Hydro	1303	905	733	19.80
Total Uttarakhand		1303	905	733	19.80	825
Delhi	Rajghat TPS	135	106	102	2.77	116
	Delhi Gas Turbine	282	210	217	5.25	219
	Pragati Gas Turbine	330	268	281	6.79	283
	Rithala GPS	108	30	30	0.72	30
	Bawana GPS	677	263	215	4.37	182
	Badarpur TPS (NTPC)	705	575	555	12.32	513
	Thermal (Total)	2237	1452	1400	32.23	1343
	Total Delhi	2237	1452	1400	32.23	1343
HP	Baspa HPS (IPP)	330	331	331	7.80	325
	Malana HPS (IPP)	86	48	81	1.59	66
	Other Hydro	589	293	415	7.91	330
	Total HP	1005	672	827	17	721
J & K	Baglihar HPS (IPP)	450	442	438	10.62	442
	Other Hydro	323	178	197	4.55	189
	Gas/Diesel/Others	183	0	0	0.00	0
	Total J & K	956	620	635	15.16	632
Total State Control Area Generation		31767	17006	17786	409.01	16625
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			1521	2851	48.86	2036
Total Regional Availability(Gross)		53302	36957	37892	853.48	35145

IV. Total Hydro Generation:

Regional Entities Hydro	10133	9015	7717	186.31	7763
State Control Area Hydro	5368	3157	2724	75.00	3125
Total Regional Hydro	15500	12172	10441	261.31	10888

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	0	100	100	0	1.06	0.00	1.06
Gwalior-Agra (D/C)	468	904	1140	0	20.00	0.00	20.00
Zerda-Kankroli	-8	-7	103	169	0.00	0.70	-0.70
Zerda-Bhinmal	5	58	93	208	0.00	1.18	-1.18
Malanpur-Auraiya	-46	-26	0	135	0.00	0.89	-0.89
Badod-Kota/Morak	110	63	129	35	1.46	0.00	1.46
Sub Total WR	529	1092			22.52	2.76	19.76
Pusauli Bypass	-142	120	143	202	1.06	0.79	0.28
MZP- GKP (D/C)	232	364	410	0	7.45	0.00	7.45
Patna-Balia(D/C)	579	527	684	0	11.70	0.00	11.70
B'Sharif-Balia (D/C)	122	202	221	0	3.28	0.00	3.28
Barh - Balia(D/C)	0	322	329	0	4.24	0.00	4.24
Pusauli-Balia	0	0	0	0	0.00	0.00	0.00
Gaya-Fatehpur (765 Kv)	55	68	87	0	0.00	0.00	0.00
Pusauli-Sahupuri	140	125	152	0	3.07	0.00	3.07
K'nasa-Sahupuri	48	60	60	0	0.00	0.00	0.00
Son Ngr-Rihand	-42	-29	0	48	0.00	0.91	-0.91
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sub Total ER	992	1759			30.79	1.70	29.10
Total IR Exch	1521	2851			53.32	4.46	48.86

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
27.33	0.71	28.03	-6.07	3.45	-5.80	-3.69	2.99	-2.99

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
19.15	-3.28	15.87	29.10	19.76	48.86	9.95	23.04	32.99

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	0.60	1.40	17.10	47.80	82.00	51.30	8.50	0.90

<----- 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)	(Hz)	(Hz)
50.48	6.04	48.90	0.12	49.71	1.34	0.22	50.27	49.21

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	416	18:32	402	01:12	0.0	0.0	0.0	0.0
Gorakhpur	400	430	18:21	408	22:41	0.0	0.0	29.3	0.0
Bareilly	400	416	06:04	391	01:19	0.0	0.0	0.0	0.0
Kanpur	400	415	06:02	397	01:13	0.0	0.0	0.0	0.0
Dadri	400	408	06:02	395	01:16	0.0	0.0	0.0	0.0
Ballabgarh	400	416	19:06	397	08:23	0.0	0.0	0.0	0.0
Bawana	400	414	19:06	395	01:19	0.0	0.0	0.0	0.0
Bassi	400	416	11:34	391	05:06	0.0	0.0	0.0	0.0
Hissar	400	410	18:17	380	08:18	0.0	15.5	0.0	0.0
Moga	400	416	18:18	395	08:17	0.0	0.0	0.0	0.0
Abdullapur	400	0	00:00	9999	00:00	0.0	0.0	0.0	0.0
Nalagarh	400	417	18:17	388	08:22	0.0	0.4	0.0	0.0
Kishenpur	400	412	18:02	400	06:56	0.0	0.0	0.0	0.0
Wagoora	400	405	18:01	358	16:52	0.0	2.0	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	468.74	248.16	479.42	447.13	663.35	611.64
Pong	426.72	384.05	400.82	237.89	411.43	544.90	71.13	423.73
Tehri	829.79	740.04	744.70	23.00	818.65	982.26	151.99	175.00
Koteshwar	612.50	598.50	610.35	4.69	NA	NA	176.00	167.00
Chamera-I	760.00	748.75	753.55	NA	NA	NA	250.89	342.37
Rihand	268.22	252.98	256.43	133.70	254.20	45.50	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	500.48	NA	510.70	NA	270.94	212.91

* NA: Not Available

IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

XI. Weather Conditions For 31.05.2012 :

Hot weather

XII. Synchronisation of new generating units :

0.00

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

1. 125MVAR Bus reactor first time charged at Agra (PGCIL) at 23.42 hrs/31.05.2012.
2. 400KV Hissar - Bawana line LILLO at Bhiwani (PGCIL) at 02.01 hrs/ 01.06.2012.
3. 80 MVAR bus reactor at Kishenpur test charged at 21.10 hrs/31.05.2012.
4. 400 kV Neemrana-Manesar -I & II first time charged at 15.54 and 16.25 hrs of 31.05.2012
5. 400/220 kV,315 MVA ICT -I first time charged at at Manesar at 17.10 hrs of 31.05.2012.
- 6- 765 kV Agra -Fatehpur test charged at 23.52 hrs of 31.05.2012 but no hold with indication of high voltage.

XIV. Tripping of lines in pooling stations :

XV. Complete generation loss in a generating station :

Report for : 31.05.2012

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER