

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 30.05.2013
Date of Reporting : 31.05.2013

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
37467	870	38337	50.06	37846	794	38640	50.44	915.4	32.93

* 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	41.37	10.63		52.00	96.83	96.88	0.04	148.87	0.00
Haryana	48.61	0.61		49.22	81.34	82.18	0.83	131.40	0.00
Rajasthan	100.83	0.00	10.51	111.33	63.85	61.29	-2.56	172.62	0.55
Delhi	30.47			30.47	77.43	71.80	-5.62	102.27	0.22
UP	124.15	13.83	8.40	146.37	119.78	117.91	-1.86	264.29	29.47
Uttarakhand		13.55		13.55	20.15	20.53	0.38	34.07	0.85
HP		19.66		19.66	3.51	5.34	1.83	25.00	0.14
J & K		13.35	0.00	13.35	19.38	17.71	-1.67	31.06	1.70
Chandigarh				0.00	5.51	5.78	0.27	5.78	0.00
Total	345.42	71.62	18.91	435.95	487.77	479.41	-8.37	915.36	32.93

* 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	6402	0	8	1237	5597	0	-8	1193	33.89
Haryana	5592	0	-76	334	5431	0	-57	188	4.36
Rajasthan	6580	0	-285	204	7319	0	-264	217	4.79
Delhi	4161	10	-103	-240	4276	4	-45	-233	1.76
UP	10666	760	-74	610	11541	790	-58	1852	22.39
Uttarakhand	1441	0	-64	337	1447	0	57	276	7.01
HP	976	0	-66	-1083	903	0	142	-1206	-25.29
J&K	1405	100	-48	-239	1124	0	-138	-320	-6.42
Chandigarh	244	0	-12	0	208	0	11	0	0.37
Total	37467	870	-720	1158	37846	794	-360	1967	42.85

* 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)	Schedule Net MU	UI Net MU
A. NTPC	Singrauli STPS	2000	1924	2018	2016	45.56	1898	45.83	-0.27
	Rihand I STPS	1000	915	842	769	20.03	834	21.28	-1.25
	Rihand II STPS	1000	965	889	936	21.34	889	22.49	-1.15
	Rihand III STPS	500	358	470	0	7.98	332	8.22	-0.24
	Dadri I STPS	840	727	605	704	14.57	607	17.42	-2.85
	Dadri II STPS	980	969	904	854	19.96	832	21.13	-1.17
	Unchahar I TPS	420	399	381	354	8.20	342	8.78	-0.58
	Unchahar II TPS	420	400	376	306	7.86	328	8.12	-0.26
	Unchahar III TPS	210	200	185	158	4.02	168	4.09	-0.07
	ISTPP (Jhajjar)	1500	470	339	304	6.76	282	8.22	-1.46
	Dadri GPS	830	783	182	254	4.45	185	4.56	-0.11
	Anta GPS	419	382	176	197	4.46	186	4.88	-0.41
	Auraiva GPS	663	616	140	143	3.22	134	3.31	-0.09
	Sub Total (A)	10782	9108	7507	6995	168.41	7017	178.32	-9.91
	B. NPC	NAPS	440	294	333	336	7.18	299	7.06
RAPS- B		440	391	433	443	9.40	392	9.38	0.02
RAPS- C		440	415	460	465	9.87	411	9.96	-0.09
Sub Total (B)		1320	1100	1226	1244	26.45	1102	26.40	0.05
C. NHPC	Chamera I HPS	540	540	540	540	13.08	545	12.96	0.12
	Chamera II HPS	300	303	299	310	6.54	273	6.65	-0.11
	Chamera III HPS	231	231	148	108	4.31	180	4.72	-0.42
	Bairasuil HPS	180	179	110	20	2.02	84	2.21	-0.18
	Salal-HPS	690	625	592	615	14.76	615	14.96	-0.21
	Tanakpur-HPS	94	77	78	65	1.71	71	1.85	-0.14
	Uri-HPS	480	480	475	462	11.22	468	11.22	0.01
	Dhauliganga-HPS	280	277	277	263	5.96	248	6.09	-0.13
	Dulhasti-HPS	390	387	408	367	9.25	385	9.27	-0.02
	Sewa-II HPS	120	119	40	0	1.65	69	1.76	-0.11
	Sub Total (C)	3305	3218	2967	2750	70.51	2938	71.68	-1.17
	D. NJPC	Natpaha Jhakri	1500	1605	1612	1621	38.56	1607	38.52
Sub Total (D)		1500	1605	1612	1621	38.56	1607	38.52	0.04
E. THDC	Tehri HPS	1000	440	432	390	9.50	396	10.00	-0.50
	Koteshwar HPS	400	285	280	86	4.49	187	4.80	-0.31
	Sub Total (E)	1400	725	712	476	13.99	583	14.80	-0.81
F. BBMB	Bhakra HPS	1480	930	1225	772	22.77	949	22.33	0.44
	Dehar HPS	990	528	420	560	13.12	547	12.67	0.46
	Pong HPS	396	78	180	0	2.04	85	1.87	0.17
	Sub Total (F)	2866	1536	1825	1332	37.93	1580	36.86	1.07
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	108	49	2.21	92	1.92	0.29
	KWHEP HPS(IPP)	1000	0	852	1000	22.58	941	26.40	-3.82
	Malana Stg-II HPS	100	0	45	46	1.02	43	1.00	0.02
	Shree Cement TPS	300	0	221	234	5.55	231	5.63	-0.08
	Budhil HPS(IPP)	70	0	34	34	0.84	35	0.82	0.02
	Sub Total (G)	1662	0	1260	1363	32.20	1342	35.77	-3.57
H. Total Regional Entities (A-G)	22836	17292	17109	15781	388.05	16169	402.36	-14.31	

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	1060	1060	25.01	1042
	Guru Nanak Dev TPS(Bhatinda)	440	180	180	3.83	160
	Guru Hargobind Singh TPS(L.mbt)	920	565	486	12.54	522
	Thermal (Total)	2620	1805	1726	41.37	1724
	Total Hydro	1148	444	410	10.63	443
Total Punjab	3768	2249	2136	52.00	2167	
Haryana	Panipat TPS	1367	653	655	15.82	659
	DCRTPP (Yamuna nagar)	600	557	563	13.22	551
	Faridabad GPS (NTPC)	432	160	155	3.90	162
	RGTPP (kheadar) (IPP)	1200	542	1072	15.67	653
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	1320	0	0	0.00	0
	Thermal (Total)	4944	1912	2445	48.61	2025
	Total Hydro	62	24	24	0.61	26
	Total Haryana	5006	1936	2469	49.22	2051
	Rajasthan	kota TPS	1240	1027	1117	26.47
suratgarh TPS		1500	1137	1290	29.06	1211
Chabra TPS		500	0	0	0.00	0
Dholpur GPS		330	0	0	0.00	0
Ramgarh GPS		111	55	60	1.51	63
RAPS A (NPC)		300	192	192	4.32	180
Barsingsar (NLC)		250	198	203	4.60	192
Giral LTPS		250	130	96	2.50	104
Rajwest LTPS (IPP)		1080	649	791	17.47	728
VSLP LTPS (IPP)		135	624	619	14.90	621
Thermal (Total)		5696	4012	4368	100.83	4201
Total Hydro		550	0	0	0.00	0
Wind power		2191	99	909	8.03	335
Biomass		91	31	31	0.73	31
Solar		201	0	0	1.74	73
Renewable/Others (Total)		2483	130	940	10.51	438
Total Rajasthan		8729	4142	5308	111.33	4639
UP	Anpara TPS	1630	1240	1229	26.80	1117
	Obra TPS	1288	514	540	11.70	488
	Paricha TPS	1140	863	694	18.00	750
	Panki TPS	210	85	65	1.70	71
	Harduaganj TPS	665	466	426	9.60	400
	Tanda TPS (NTPC)	440	392	398	9.69	404
	Roza TPS (IPP)	1200	995	847	23.56	982
	Anpara-C (IPP)	1200	667	678	16.18	674
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	315	293	6.91	288
	Thermal (Total)	8223	5537	5170	124.15	5173
	Vishnuparyag HPS (IPP)	400	436	436	10.46	436
	Other Hydro	527	133	170	3.37	140
	Cogeneration	981	350	350	8.40	350
	Total UP	10131	6456	6126	146.37	5663
Uttarakhand	Total Hydro	1303	502	577	13.55	564
	Total Uttarakhand	1303	502	577	13.55	564
Delhi	Rajghat TPS	135	26	50	1.30	54
	Delhi Gas Turbine	282	151	195	3.79	158
	Pragati Gas Turbine	330	283	289	6.90	287
	Rithala GPS	95	0	0	0.00	0
	Bawana GPS	686	222	211	5.57	232
	Badarpur TPS (NTPC)	705	595	585	12.91	538
	Thermal (Total)	2232	1277	1330	30.47	1270
	Total Delhi	2232	1277	1330	30.47	1270
HP	Baspa HPS (IPP)	330	301	331	7.74	322
	Malana HPS (IPP)	86	36	43	0.95	40
	Other Hydro	589	414	401	10.97	457
	Total HP	1005	751	775	19.66	819
J & K	Baglihar HPS (IPP)	450	436	436	10.40	433
	Other Hydro	323	110	128	2.95	123
	Gas/Diesel/Others	183	0	0	0.00	0
	Total J & K	956	546	564	13.35	556
Total State Control Area Generation		33130	17859	19285	435.95	17729
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			4511	4209	108.51	4521
Total Regional Availability(Gross)		55966	39479	39275	932.51	38419

IV. Total Hydro Generation:

Regional Entities Hydro	10364	8121	7274	186.80	7783
State Control Area Hydro	5368	2400	2520	71.62	2549
Total Regional Hydro	15731	10521	9794	258.42	10332

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	200	100	200	100	2.81	0.26	2.55
Gwalior-Agra (D/C)	1021	976	1509	0	24.39	0.00	24.39
Zerda-Kankroli	-49	-305	0	339	0.00	4.23	-4.23
Zerda-Bhinmal	-24	-278	47	330	0.00	2.96	-2.96
Malanpur-Auraiya	-87	-55	0	91	0.00	1.28	-1.28
Badod-Kota/Morak	-97	-104	0	149	0.00	2.13	-2.13
Mundra-Mohindergarh(HVDC)	1444	1153	1450	0	32.84	0.00	32.84
Sub Total WR	2408	1487			60.04	10.86	49.18
Pusauli Bypass	100	100	100	0	2.39	0.00	2.39
MZP- GKP (D/C)	748	1024	1162	0	23.20	0.00	23.20
Patna-Balia(D/C)	747	803	855	0	16.86	0.00	16.86
B'Sharif-Balia (D/C)	390	422	564	0	10.43	0.00	10.43
Pusauli-Balia	8	0	99	44	0.95	0.00	0.95
Gaya-Fatehpur (765 Kv)	0	268	268	0	2.81	0.00	2.81
Pusauli-Sahupuri	146	145	184	0	3.76	0.00	3.76
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-36	-40	0	44	0.00	1.05	-1.05
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sub Total ER	2103	2722			60.38	1.05	59.33
Total IR Exch	4511	4209			120.42	11.91	108.51

V(B). Inter Regional Schedule & Actual Exchanges [Import (+ve)/Export (-ve)] [Corridor wise]

ER	ISGS/LT Schedule (MU)		Bilateral Schedule (MU)		Power Exchange Shdi (MU)		Wheeling (MU)	
	Bhutan	Total	Through ER	Through WR	Through ER	Through WR	Through ER	Through WR
37.17	1.49	38.66	-2.56	6.48	5.87	0.33	-0.93	0.93

Total IR Schedule (MU)			Total IR Actual (MU)			Net IR UI (MU)		
Through ER	Through WR Inclds Mndra	Total	Through ER	Through WR	Total	Through ER	Through WR	Total
41.04	60.37	101.40	59.33	49.18	108.51	18.30	-11.19	7.11

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	0.00	0.00	58.00	58.00	88.90	42.00

<----- Frequency (Hz) ----->				Average Frequency	Frequency Variation Index	Std. Dev.	Frequency in 15 Min Block	
Maximum		Minimum					MAX (Hz)	MIN (Hz)
Freq	Time	Freq	Time	Hz				
50.72	18.08	49.80	11.21	50.17	0.47	0.14	50.59	50.01

VII. Voltage profile 400 kV

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	412	06:07	401	12:08	0.0	0.0	0.0	0.0
Gorakhpur	400	424	07:12	407	00:19	0.0	0.0	12.0	0.0
Bareilly	400	0	00:00	9999	00:00	0.0	0.0	0.0	0.0
Kanpur	400	419	06:02	396	12:08	0.0	0.0	0.0	0.0
Dadri	400	417	06:07	394	12:14	0.0	0.0	0.0	0.0
Balabhgarh	400	422	06:08	398	12:13	0.0	0.0	1.9	0.0
Bawana	400	418	06:18	398	12:15	0.0	0.0	0.0	0.0
Bassi	400	425	04:02	393	12:14	0.0	0.0	5.1	0.0
Hissar	400	410	04:02	393	12:13	0.0	0.0	0.0	0.0
Moga	400	418	18:00	121	11:48	4.4	10.7	0.0	0.0
Abdullapur	400	412	18:00	283	14:02	0.1	0.1	0.0	0.0
Nalagarh	400	418	04:05	402	14:34	0.0	0.0	0.0	0.0
Kishenpur	400	413	04:05	400	22:14	37.0	37.0	0.0	0.0
Wagoora	400	414	03:08	394	15:43	0.0	0.0	0.0	0.0

VIII. Voltage profile 765 kV

Station	Voltage Level (kV)	Maximum		Minimum		Voltage (in % of Time)			
		Voltage(KV)	Time	Voltage (KV)	Time	<728 kV	<742 kV	>800 kV	>820 kV
Fatehpur	765	774	04:08	731	12:13	0.0	12.1	0.0	0.0
Balia	765	778	06:02	741	00:23	0.0	0.0	0.0	0.0
Moga	765	799	04:03	765	12:14	0.0	0.0	0.0	0.0
Agra	765	801	04:08	761	22:30	0.0	0.0	0.1	0.0
Bhiwani	765	791	18:00	754	12:47	0.0	0.0	0.0	0.0
Unnao	765	770	06:02	730	20:13	0.0	14.5	0.0	0.0

IX. 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 (m ³ /s)	Usage (m ³ /s)
Bhakra	513.59	445.62	478.88	434.29	468.93	248.16	797.40	823.82
Pong	426.72	384.05	399.57	209.93	400.19	223.95	62.13	140.48
Tehri	829.79	740.04	750.15	49.85	818.65	982.26	200.86	316.00
Koteshwar	612.50	598.50	NA	NA	NA	NA	NA	NA
Chamera-I	760.00	748.75	758.66	NA	NA	NA	257.39	354.14
Rihand	268.22	252.98	255.79	107.70	256.21	125.00	NA	NA
RPS	352.80	343.81	347.37	NA	NA	NA	NA	16.71
Jawahar Sagar	298.70	295.78	297.94	NA	NA	NA	NA	37.38
RSD	527.91	487.91	509.40	144.00	500.73	127.00	284.61	148.32

* NA: Not Available

X. System Constraints:

XI. Grid Disturbance / Any Other Significant Event:

XII. Weather Conditions For 30.05.2013 :

1. Hot weather& Hot waves Condition prevailing in NR.

XIII. Synchronisation of new generating units :

0.00

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

XV. Tripping of lines in pooling stations :

XVI. Complete generation loss in a generating station :

Report for : 30.05.2013

पारी प्रभाती अश्विन्ता / SHIFT CHARGE ENGINEER