

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 30.04.2013

Date of Reporting : 01.05.2013

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
35435	1880	37315	50.12	32415	1702	34117	49.98	786.6	49.41

* 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	42.83	8.36		51.19	59.14	59.97	0.82	111.16	0.15
Haryana	54.25	0.65		54.90	53.65	52.21	-1.44	107.11	0.00
Rajasthan	89.38	0.00	8.59	97.97	60.99	57.10	-3.89	155.07	0.00
Delhi	30.03			30.03	57.56	56.11	-1.45	86.14	0.00
UP	130.04	5.62	12.00	147.66	89.97	87.82	-2.15	235.48	47.48
Uttarakhand		13.37		13.37	20.59	20.36	-0.23	33.73	0.07
HP		11.76		11.76	12.98	11.51	-1.47	23.27	0.01
J & K		12.23	0.00	12.23	20.69	17.82	-2.87	30.05	1.70
Chandigarh				0.00	4.71	4.56	-0.15	4.56	0.00
Total	346.53	52.00	20.59	419.11	380.28	367.46	-12.83	786.57	49.41

* 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	5263	0	-80	115	4877	0	112	281	3.75
Haryana	5419	0	-171	27	4413	0	-141	-433	-10.21
Rajasthan	6470	0	-205	535	6231	0	-149	198	11.90
Delhi	3913	0	-100	-622	3105	0	96	-712	-11.42
UP	10015	1780	-165	-6	10490	1702	-80	810	5.35
Uttarakhand	1673	0	26	548	1296	0	-26	446	11.30
HP	954	0	-210	-434	812	0	-34	-101	-5.58
J&K	1512	100	-133	-166	1051	0	-125	-130	-3.43
Chandigarh	217	0	-10	-18	141	0	-4	15	0.50
Total	35435	1880	-1049	-21	32415	1702	-351	373	2.15

* 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	1419	1573	1540	34.49	1437	34.05	0.44
	Rihand I STPS	1000	915	985	989	21.83	910	21.95	-0.12
	Rihand II STPS	1000	970	1037	1044	23.08	962	23.27	-0.19
	Rihand III STPS	500	473	495	499	11.17	465	11.34	-0.17
	Dadri I STPS	840	646	732	641	14.67	611	15.12	-0.45
	Dadri II STPS	980	714	840	697	16.12	672	15.75	0.37
	Unchahar I TPS	420	394	440	437	9.21	384	9.20	0.02
	Unchahar II TPS	420	398	433	439	9.20	383	9.11	0.09
	Unchahar III TPS	210	197	217	217	4.54	189	4.53	0.01
	ISTPP (Jhajjar)	1500	1410	922	643	14.88	620	14.40	0.47
	Dadri GPS	830	790	381	387	8.68	362	8.87	-0.19
	Anta GPS	419	392	243	250	5.54	231	5.67	-0.13
	Auraiva GPS	663	625	293	311	6.98	291	6.76	0.22
	Sub Total (A)	10782	9343	8591	8094	180.38	7516	180.01	0.37
	B. NPC	NAPS	440	297	333	336	7.09	295	7.13
RAPS- B		440	404	441	456	9.69	404	9.70	-0.01
RAPS- C		440	430	462	468	9.93	414	10.32	-0.39
Sub Total (B)		1320	1131	1236	1260	26.71	1113	27.14	-0.44
C. NHPC	Chamera I HPS	540	360	360	0	6.50	271	6.43	0.08
	Chamera II HPS	300	310	306	0	4.38	182	4.49	-0.11
	Chamera III HPS	231	231	221	80	2.96	123	2.79	0.17
	Bairasuil HPS	180	182	182	50	2.31	96	1.97	0.33
	Salai-HPS	690	359	568	341	9.13	381	8.61	0.52
	Tanakpur-HPS	94	35	49	41	0.87	36	0.83	0.04
	Uri-HPS	480	476	480	480	11.58	482	11.54	0.04
	Dhauliganga-HPS	280	277	277	0	2.93	122	2.96	-0.03
	Dulhasti-HPS	390	387	361	21	5.42	226	5.74	-0.31
	Sewa-II HPS	120	119	123	65	2.11	88	1.98	0.13
	Sub Total (C)	3305	2734	2927	1078	48.19	2008	47.33	0.86
D.NJPC	Natpda Jhakri	1500	1605	1570	205	19.57	816	19.51	0.06
	Sub Total (D)	1500	1605	1570	205	19.57	816	19.51	0.06
E. THDC	Tehri HPS	1000	213	343	301	4.76	198	4.75	0.01
	Koteshwar HPS	400	230	233	0	1.85	77	1.80	0.05
	Sub Total (E)	1400	443	576	301	6.61	275	6.55	0.06
F. BBMB	Bhakra HPS	1480	740	1140	680	18.36	765	17.75	0.61
	Dehar HPS	990	378	660	280	9.19	383	9.07	0.13
	Pong HPS	396	20	180	0	0.54	23	0.25	0.29
	Sub Total (F)	2866	1138	1980	960	28.09	1170	27.07	1.02
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	60	30	0.94	39	1.07	-0.13
	KWHEP HPS(IPP)	1000	0	900	376	10.71	446	10.80	-0.09
	Malana Stg-II HPS	100	0	110	0	0.49	21	0.45	0.05
	Shree Cement TPS	300	0	260	264	6.30	262	6.49	-0.20
	Budhil HPS(IPP)	70	0	0	28	0.53	22	0.51	0.01
	Sub Total (G)	1662	0	1330	698	18.96	790	19.32	-0.36
H. Total Regional Entities (A-G)	22836	16393	18210	12596	328.51	13688	326.93	1.58	

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	1052	1050	22.23	926
	Guru Nanak Dev TPS(Bhatinda)	440	110	110	2.33	97
	Guru Hargobind Singh TPS(L.mbt)	920	658	964	18.28	762
	Thermal (Total)	2620	1820	2124	42.83	1785
	Total Hydro	1148	615	411	8.36	348
	Total Punjab	3768	2435	2535	51.19	2133
Haryana	Panipat TPS	1367	463	665	13.76	573
	DCRTPP (Yamuna nagar)	600	559	580	13.21	551
	Faridabad GPS (NTPC)	432	179	157	4.28	178
	RGTPP (khedar) (IPP)	1200	474	526	13.31	555
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	1320	402	401	9.69	404
	Thermal (Total)	4944	2077	2329	54.25	2261
	Total Hydro	62	23	27	0.65	27
	Total Haryana	5006	2100	2356	54.90	2288
	Rajasthan	kota TPS	1240	1150	1136	26.34
suratgarh TPS		1500	1028	1134	23.45	977
Chabra TPS		500	400	384	9.87	411
Dholpur GPS		330	136	140	3.32	138
Ramgarh GPS		111	62	109	2.46	103
RAPS A (NPC)		300	180	0	3.39	141
Barsingsar (NLC)		250	107	108	2.50	104
Giral LTPS		250	103	54	2.18	91
Rajwest LTPS (IPP)		1080	704	611	15.88	662
VSLP LTPS (IPP)		135	0	0	0.00	0
Thermal (Total)		5696	3870	3676	89.38	3724
Total Hydro		550	0	0	0.00	0
Wind power		2191	252	339	6.22	259
Biomass		91	38	38	0.91	38
Solar		201	0	0	1.46	61
Renewable/Others (Total)		2483	290	377	8.59	358
Total Rajasthan		8729	4160	4053	97.97	4082
UP		Anpara TPS	1630	1179	1147	28.10
	Obra TPS	1382	473	505	12.20	508
	Paricha TPS	890	558	77	17.50	729
	Panki TPS	210	77	761	2.30	96
	Harduaganj TPS	665	243	256	5.90	246
	Tanda TPS (NTPC)	440	402	402	9.82	409
	Roza TPS (IPP)	1200	1081	1089	22.79	950
	Anpara-C (IPP)	1200	950	1012	23.08	962
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	365	405	8.35	348
	Thermal (Total)	8067	5328	5654	130.04	5418
	Vishnuparyag HPS (IPP)	400	117	85	1.99	83
	Other Hydro	527	154	154	3.63	151
	Cogeneration	981	500	500	12.00	500
	Total UP	9975	6099	6393	147.66	6070
	Uttarakhand	Total Hydro	1303	583	562	13.37
Total Uttarakhand		1303	583	562	13.37	557
Delhi	Rajghat TPS	135	100	101	2.35	98
	Delhi Gas Turbine	282	185	177	4.35	181
	Pragati Gas Turbine	330	288	294	6.99	291
	Rithala GPS	108	0	0	0.00	0
	Bawana GPS	677	232	0	3.60	150
	Badarpur TPS (NTPC)	705	570	575	12.74	531
	Thermal (Total)	2237	1375	1147	30.03	1251
	Total Delhi	2237	1375	1147	30.03	1251
HP	Baspa HPS (IPP)	330	60	90	2.13	89
	Malana HPS (IPP)	86	87	7	0.54	22
	Other Hydro	589	344	422	9.10	379
	Total HP	1005	491	519	11.76	490
J & K	Baglihar HPS (IPP)	450	438	440	10.49	437
	Other Hydro	323	70	115	1.74	73
	Gas/Diesel/Others	183	0	0	0.00	0
	Total J & K	956	508	555	12.23	510
Total State Control Area Generation		32979	17751	18120	419.11	17380
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			2888	2869	61.23	2551
Total Regional Availability(Gross)		55815	38849	33585	808.85	33619

IV. Total Hydro Generation:

Regional Entities Hydro	10364	8123	2950	114.60	4775
State Control Area Hydro	5368	2374	2228	52.00	2083
Total Regional Hydro	15731	10497	5178	166.59	6858

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	-100	-200	0	250	0.00	3.24	-3.24
Gwalior-Agra (D/C)	1244	788	1336	0	19.18	0.00	19.18
Zerda-Kankroli	-113	-61	0	247	0.00	3.20	-3.20
Zerda-Bhinmal	-82	-10	29	227	0.00	2.12	-2.12
Malanpur-Auraiya	-98	-80	0	126	0.00	2.13	-2.13
Badod-Kota/Morak	-121	-76	0	209	0.00	2.90	-2.90
Mundra-Mohindergarh(HVDC)	1265	1268	1268	0	30.64	0.00	30.64
Sub Total WR	1995	1629			49.82	13.59	36.23
Pusauli Bypass	-100	-300	0	300	0.00	4.83	-4.83
MZP- GKP (D/C)	204	418	458	0	7.06	0.00	7.06
Patna-Balia(D/C)	448	558	676	0	11.67	0.00	11.67
B'Sharif-Balia (D/C)	220	286	396	0	6.16	0.00	6.16
Pusauli-Balia	-2	50	105	27	0.85	0.00	0.85
Gaya-Fatehpur (765 Kv)	-5	128	172	120	1.61	0.00	1.61
Pusauli-Sahupuri	164	140	171	0	3.54	0.00	3.54
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-36	-40	0	44	0.00	1.07	-1.07
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sub Total ER	893	1240			30.89	5.89	25.00
Total IR Exch	2888	2869			80.71	19.48	61.23

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
34.86	1.35	36.21	-8.24	-9.97	2.00	1.54	-2.35	2.35

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
27.63	39.43	67.05	25.00	36.23	61.23	-2.63	-3.20	-5.82

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	0.10	70.80	70.70	86.10	29.20

<----- 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				
50.56	18.46	49.67	22.36	50.13	0.34	0.13	50.31	49.89

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	408	8:03	403	19:35	0.0	0.0	0.0	0.0
Gorakhpur	400	421	8:08	407	14:50	0.0	0.0	2.1	0.0
Bareilly	400	420	17:57	399	22:36	0.0	0.0	0.0	0.0
Kanpur	400	416	8:03	401	22:33	0.0	0.0	0.0	0.0
Dadri	400	416	17:54	401	22:33	0.0	0.0	0.0	0.0
Ballabgarh	400	422	17:54	406	22:35	0.0	0.0	1.7	0.0
Bawana	400	420	17:53	402	22:34	0.0	0.0	0.0	0.0
Bassi	400	423	3:04	397	19:51	20.9	20.9	6.9	0.0
Hissar	400	412	17:30	392	22:35	0.0	0.0	0.0	0.0
Moga	400	413	17:27	398	22:32	0.0	0.0	0.0	0.0
Abdullapur	400	419	17:32	400	22:34	0.0	0.0	0.0	0.0
Nalagarh	400	420	18:02	402	19:36	0.0	0.0	0.0	0.0
Kishenpur	400	413	17:22	397	19:34	0.0	0.0	0.0	0.0
Wagoora	400	413	18:00	387	19:48	0.0	5.3	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	0	0:00	9999	0:00	0.0	0.0	0.0	0.0
Balia	765	761	10:57	731	14:50	0.0	0.0	100.0	100.0
Moga	765	780	18:03	746	22:35	0.0	0.0	100.0	100.0
Agra	765	781	18:02	745	5:42	0.0	0.0	0.0	0.0
Bhiwani	765	793	13:29	762	5:40	0.0	0.0	0.0	0.0
Unnao	765	758	18:17	730	5:42	0.0	37.1	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	479.36	447.73	474.55	345.61	434.21	634.01
Pong	426.72	384.05	400.35	223.85	403.47	304.55	50.60	35.91
Tehri	829.79	740.04	762.40	138.00	818.65	982.26	94.37	146.00
Koteshwar	612.50	598.50	599.30	0.30	611.20	4.95	146.00	123.00
Chamera-I	760.00	748.75	NA	NA	NA	NA	169.09	176.12
Rihand	268.22	252.98	257.04	159.40	258.07	205.10	NA	NA
RPS	352.80	343.81	346.11	NA	348.64	NA	NA	NA
Jawahar Sagar	298.70	295.78	298.28	NA	298.31	NA	NA	NA
RSD	527.91	487.91	507.14	NA	498.05	NA	145.18	176.39

* NA: Not Available

X. System Constraints:

XI. Grid Disturbance / Any Other Significant Event:

XII. Weather Conditions For 30.04.2013 :

1.Normal weather.

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 : 30.04.2013

पारी प्रभाती अश्विन्ता / SHIFT CHARGE ENGINEER