

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 23.05.2013
Date of Reporting : 24.05.2013

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
37679	2097	39777	50.06	38356	840	39196	50.13	911.9	57.01

* 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	45.99	8.54		54.54	101.62	102.22	0.60	156.75	0.00
Haryana	54.53	0.63		55.16	81.70	81.93	0.22	137.09	0.04
Rajasthan	87.56	0.00	17.56	105.12	64.06	62.13	-1.93	167.25	1.07
Delhi	29.81			29.81	78.29	75.07	-3.23	104.87	0.87
UP	109.72	12.23	8.40	130.35	118.49	118.24	-0.25	248.59	51.94
Uttarakhand		17.41		17.41	17.70	18.58	0.88	35.98	1.22
HP		22.15		22.15	4.64	3.00	-1.64	25.16	0.17
J & K		13.40	0.00	13.40	19.98	16.70	-3.28	30.09	1.70
Chandigarh				0.00	5.54	6.16	0.62	6.16	0.00
Total	327.62	74.35	25.96	427.93	492.02	484.01	-8.01	911.94	57.01

* 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	6616	0	91	1245	6138	0	56	1159	35.12
Haryana	5779	0	-301	299	5846	0	45	250	5.04
Rajasthan	6568	0	-202	184	6970	0	-62	70	3.64
Delhi	4450	34	-192	73	4214	0	-190	-281	-0.28
UP	10147	1880	-241	117	11543	840	-45	1841	16.28
Uttarakhand	1555	70	19	209	1457	0	17	162	4.25
HP	901	13	-403	-870	920	0	-28	-1147	-21.99
J&K	1400	100	-64	-239	1044	0	-267	-320	-6.37
Chandigarh	264	0	10	0	223	0	22	0	0.43
Total	37679	2097	-1282	1018	38356	840	-453	1735	36.11

* 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	
										UI (OG:(+ve), UG: (-ve))
A. NTPC	Singrauli STPS	2000	1923	2072	2089	46.49	1937	46.05	0.44	
	Rihand I STPS	1000	915	981	1001	22.02	918	21.91	0.11	
	Rihand II STPS	1000	965	1016	1040	23.18	966	23.03	0.16	
	Rihand III STPS	500	474	511	513	11.34	473	11.26	0.08	
	Dadri I STPS	840	807	810	671	16.49	687	17.62	-1.13	
	Dadri II STPS	980	969	920	876	20.61	859	21.37	-0.76	
	Unchahar I TPS	420	398	437	382	8.93	372	9.05	-0.12	
	Unchahar II TPS	420	398	437	331	8.93	372	8.55	0.38	
	Unchahar III TPS	210	198	217	162	4.22	176	4.21	0.01	
	ISTPP (Jhajjar)	1500	862	348	602	11.98	499	13.19	-1.21	
	Dadri GPS	830	798	350	342	7.77	324	7.79	-0.02	
	Anta GPS	419	382	234	232	5.47	228	5.47	0.00	
	Auraiva GPS	663	617	147	154	3.44	143	3.60	-0.17	
	Sub Total (A)	10782	9705	8480	8395	190.87	7953	193.10	-2.23	
	B. NPC	NAPS	440	292	327	339	7.07	295	7.01	0.07
RAPS- B		440	398	436	443	9.50	396	9.55	-0.05	
RAPS- C		440	334	234	461	6.66	278	8.01	-1.35	
Sub Total (B)		1320	1024	997	1243	23.24	968	24.57	-1.33	
C. NHPC	Chamera I HPS	540	540	540	540	13.02	543	12.82	0.21	
	Chamera II HPS	300	303	307	307	7.27	303	7.23	0.04	
	Chamera III HPS	231	231	237	227	5.48	228	5.52	-0.04	
	Bairasuil HPS	180	182	180	182	3.20	133	3.07	0.13	
	Salal-HPS	690	675	670	670	16.05	669	16.16	-0.11	
	Tanakpur-HPS	94	61	61	62	1.47	61	1.46	0.00	
	Uri-HPS	480	476	475	476	11.45	477	11.37	0.08	
	Dhauliganga-HPS	280	276	286	277	6.41	267	6.52	-0.12	
	Dulhasti-HPS	390	387	408	392	9.31	388	9.35	-0.04	
	Sewa-II HPS	120	119	122	0	2.23	93	2.11	0.12	
	Sub Total (C)	3305	3250	3286	3133	75.87	3161	75.60	0.27	
	D.NJPC	Natpaha Jhakri	1500	1605	1606	1616	38.55	1606	38.52	0.03
		Sub Total (D)	1500	1605	1606	1616	38.55	1606	38.52	0.03
E. THDC	Tehri HPS	1000	470	472	472	10.45	435	10.50	-0.05	
	Koteshwar HPS	400	276	275	0	4.57	190	4.55	0.02	
	Sub Total (E)	1400	746	747	472	15.02	626	15.05	-0.03	
F. BBMB	Bhakra HPS	1480	730	1211	664	17.91	746	17.52	0.39	
	Dehar HPS	990	585	825	600	14.63	610	14.04	0.59	
	Pong HPS	396	117	292	60	2.92	122	2.82	0.10	
	Sub Total (F)	2866	1432	2328	1324	35.46	1478	34.38	1.08	
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	23	23	5.41	225	5.20	0.21	
	KWHEP HPS(IPP)	1000	0	1199	1200	28.64	1194	28.51	0.13	
	Malana Stg-II HPS	100	0	66	86	2.02	84	1.71	0.31	
	Shree Cement TPS	300	0	238	248	5.98	249	5.86	0.12	
	Budhil HPS(IPP)	70	0	71	69	1.60	66	1.65	-0.05	
	Sub Total (G)	1662	0	1597	1626	43.65	1819	42.93	0.71	
H. Total Regional Entities (A-G)	22836	17762	19041	17809	422.66	17611	424.15	-1.49		

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	1260	1180	27.03	1126
	Guru Nanak Dev TPS(Bhatinda)	440	225	175	4.41	184
	Guru Hargobind Singh TPS(L.mbt)	920	692	587	14.55	606
	Thermal (Total)	2620	2177	1942	45.99	1916
	Total Hydro	1148	345	344	8.54	356
	Total Punjab	3768	2522	2286	54.54	2272
Haryana	Panipat TPS	1367	644	614	14.78	616
	DCRTPP (Yamuna nagar)	600	281	256	6.34	264
	Faridabad GPS (NTPC)	432	168	171	3.93	164
	RGTPP (khedar) (IPP)	1200	542	902	18.32	763
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	1320	618	417	11.17	465
	Thermal (Total)	4944	2253	2360	54.53	2272
	Total Hydro	62	25	24	0.63	26
	Total Haryana	5006	2278	2384	55.16	2298
	Rajasthan	kota TPS	1240	1112	1117	26.84
suratgarh TPS		1500	1096	1114	26.89	1120
Chabra TPS		500	0	202	2.76	115
Dholpur GPS		330	122	118	2.91	121
Ramgarh GPS		111	125	102	2.58	107
RAPS A (NPC)		300	192	180	4.30	179
Barsingsar (NLC)		250	206	208	4.93	205
Giral LTPS		250	60	60	1.39	58
Rajwest LTPS (IPP)		1080	625	719	14.96	623
VSLP LTPS (IPP)		135	0	0	0.00	0
Thermal (Total)		5696	3538	3820	87.56	3648
Total Hydro		550	0	0	0.00	0
Wind power		2191	399	884	15.36	640
Biomass		91	28	28	0.66	28
Solar		201	0	0	1.54	64
Renewable/Others (Total)		2483	427	912	17.56	732
Total Rajasthan		8729	3965	4732	105.12	4380
UP	Anpara TPS	1630	1293	873	22.70	946
	Obra TPS	1288	528	540	11.70	488
	Paricha TPS	1140	890	830	18.20	758
	Panki TPS	210	165	165	2.80	117
	Harduaganj TPS	665	0	0	0.00	0
	Tanda TPS (NTPC)	440	392	402	9.72	405
	Roza TPS (IPP)	1200	747	1008	20.05	836
	Anpara-C (IPP)	1200	643	674	15.53	647
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	401	401	9.02	376
	Thermal (Total)	8223	5059	4893	109.72	4572
	Vishnuparyag HPS (IPP)	400	396	436	7.87	328
	Other Hydro	527	191	142	4.36	182
	Cogeneration	981	350	350	8.40	350
	Total UP	10131	5996	5821	130.35	5104
Uttarakhand	Total Hydro	1303	744	710	17.41	725
	Total Uttarakhand	1303	744	710	17.41	725
Delhi	Rajghat TPS	135	43	47	1.12	46
	Delhi Gas Turbine	282	180	187	4.47	186
	Pragati Gas Turbine	330	274	287	6.69	279
	Rithala GPS	95	0	0	0.00	0
	Bawana GPS	686	272	216	5.90	246
	Badarpur TPS (NTPC)	705	605	590	11.63	485
	Thermal (Total)	2232	1374	1327	29.81	1242
	Total Delhi	2232	1374	1327	29.81	1242
	HP	Baspa HPS (IPP)	330	329	329	7.79
Malana HPS (IPP)		86	63	95	1.74	72
Other Hydro		589	517	529	12.63	526
Total HP		1005	909	953	22.15	923
J & K	Baglihar HPS (IPP)	450	436	434	10.44	435
	Other Hydro	323	110	128	2.95	123
	Gas/Diesel/Others	183	0	0	0.00	0
	Total J & K	956	546	562	13.40	558
Total State Control Area Generation		33130	18334	18775	427.93	17503
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			3373	2893	79.34	3306
Total Regional Availability(Gross)		55966	40748	39477	929.93	38419

IV. Total Hydro Generation:

Regional Entities Hydro	10364	9255	7854	200.98	8374
State Control Area Hydro	5368	2760	2735	74.35	2770
Total Regional Hydro	15731	12015	10589	275.33	11144

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	50	200	0.13	3.19	-3.06
Gwalior-Agra (D/C)	929	948	1261	0	22.81	0.00	22.81
Zerda-Kankroli	-1	-215	25	311	0.00	2.81	-2.81
Zerda-Bhinmal	20	-185	90	310	0.00	1.84	-1.84
Malanpur-Auraiya	-131	-29	0	131	0.00	1.32	-1.32
Badod-Kota/Morak	-21	-110	0	154	0.00	1.35	-1.35
Mundra-Mohindergarh(HVDC)	1432	1433	1434	0	34.47	0.00	34.47
Sub Total WR	2128	1642			57.40	10.50	46.90
Pusauli Bypass	150	150	150	0	3.60	0.00	3.60
MZP- GKP (D/C)	410	426	800	0	12.33	0.00	12.33
Patna-Balia(D/C)	368	443	513	0	9.57	0.00	9.57
B'Sharif-Balia (D/C)	220	195	342	0	4.99	0.00	4.99
Pusauli-Balia	-54	-72	0	103	0.00	1.28	-1.28
Gaya-Fatehpur (765 Kv)	42	-13	122	85	0.78	0.00	0.78
Pusauli-Sahupuri	145	162	182	0	3.52	0.00	3.52
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	1245	1251			34.79	2.35	32.44
Total IR Exch	3373	2893			92.19	12.85	79.34

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
34.57	1.13	35.70	-2.44	6.55	5.74	-12.94	-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
38.07	46.76	84.84	32.44	46.90	79.34	-5.64	0.14	-5.50

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	96.74	96.64	47.70	3.30

<----- 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				
50.38	13.04	49.67	19.35	50.00	0.12	0.11	50.29	49.91

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	407	13:01	400	00:20	0.0	0.0	0.0	0.0
Gorakhpur	400	425	07:19	408	01:25	0.0	0.0	8.6	0.0
Bareilly	400	0	00:00	9999	00:00	0.0	0.0	0.0	0.0
Kanpur	400	413	13:19	400	10:17	0.0	0.0	0.0	0.0
Dadri	400	408	04:02	394	16:18	0.0	0.0	0.0	0.0
Ballabgarh	400	415	04:02	400	16:18	0.0	0.0	0.0	0.0
Bawana	400	411	04:13	398	16:18	0.0	0.0	0.0	0.0
Bassi	400	417	04:13	397	00:06	0.0	0.0	0.0	0.0
Hissar	400	404	04:02	392	12:47	0.0	0.0	0.0	0.0
Moga	400	416	04:13	386	15:33	0.0	0.2	0.0	0.0
Abdullapur	400	406	04:02	397	12:48	0.0	0.0	0.0	0.0
Nalagarh	400	411	03:55	394	16:18	0.0	0.0	0.0	0.0
Kishenpur	400	412	04:02	400	15:36	0.0	0.0	0.0	0.0
Wagoora	400	412	04:15	395	20:03	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	770	21:30	728	21:24	0.0	4.2	0.0	0.0
Balia	765	767	06:31	735	09:52	0.0	30.4	0.0	0.0
Moga	765	789	04:13	761	16:18	0.0	0.0	0.0	0.0
Agra	765	786	19:01	743	10:45	0.0	0.0	0.0	0.0
Bhiwani	765	775	04:11	752	12:50	0.0	0.0	0.0	0.0
Unnao	765	765	19:05	742	10:20	0.0	0.0	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	475.91	368.17	469.32	257.12	1036.42	610.14
Pong	426.72	384.05	399.14	203.01	401.76	259.17	110.44	252.93
Tehri	829.79	740.04	753.10	70.05	818.65	982.26	217.43	341.00
Koteshwar	612.50	598.50	NA	NA	NA	NA	NA	NA
Chamera-I	760.00	748.75	757.28	NA	NA	NA	374.45	351.58
Rihand	268.22	252.98	256.21	125.00	256.73	146.40	NA	NA
RPS	352.80	343.81	347.18	NA	NA	NA	NA	NA
Jawahar Sagar	298.70	295.78	298.03	NA	NA	NA	NA	NA
RSD	527.91	487.91	507.19	NA	499.87	NA	164.55	182.56

* NA: Not Available

X. System Constraints:

XI. Grid Disturbance / Any Other Significant Event:

XII. Weather Conditions For 23.05.2013 :

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 : 23.05.2013

पारी प्रभाती अश्विनी / SHIFT CHARGE ENGINEER