

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 24.05.2013
Date of Reporting : 25.05.2013

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
38114	2371	40485	50.15	38582	1495	40077	50.15	925.4	56.58

* 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	46.18	9.75		55.92	100.70	101.85	1.15	157.77	0.00
Haryana	64.73	0.63		65.37	73.58	73.38	-0.20	138.74	0.00
Rajasthan	81.55	0.00	26.16	107.72	62.15	58.09	-4.05	165.81	0.00
Delhi	31.03			31.03	79.63	76.64	-3.00	107.67	0.80
UP	112.01	15.17	8.40	135.58	118.74	120.66	1.92	256.24	52.37
Uttarakhand		17.91		17.91	17.34	18.33	0.99	36.24	1.53
HP		22.53		22.53	4.42	3.24	-1.17	25.77	0.17
J & K		13.40	0.00	13.40	18.72	17.44	-1.28	30.83	1.70
Chandigarh				0.00	5.50	6.32	0.82	6.32	0.00
Total	335.50	79.39	34.56	449.45	480.77	475.95	-4.82	925.39	56.58

* 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	6673	0	105	1155	6301	0	202	1157	34.75
Haryana	5970	0	-305	295	5736	0	-22	247	5.90
Rajasthan	6358	0	-367	188	6946	0	-5	196	4.96
Delhi	4629	3	-248	260	4259	75	-378	-98	4.27
UP	10226	2175	-65	117	11646	1420	37	1841	14.35
Uttarakhand	1677	80	155	193	1461	0	27	136	3.81
HP	976	13	-371	-721	931	0	-36	-1172	-22.94
J&K	1338	100	-70	-290	1078	0	-174	-371	-7.53
Chandigarh	267	0	14	0	224	0	27	0	0.47
Total	38114	2371	-1151	1197	38582	1495	-323	1937	38.04

* 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	1925	2066	2090	46.39	1933	46.07	0.32	
	Rihand I STPS	1000	909	980	999	21.23	885	21.44	-0.21	
	Rihand II STPS	1000	965	1008	1040	22.65	944	22.78	-0.12	
	Rihand III STPS	500	474	493	508	10.87	453	10.98	-0.11	
	Dadri I STPS	840	807	712	140	16.54	689	17.82	-1.27	
	Dadri II STPS	980	969	870	813	19.18	799	21.53	-2.35	
	Unchahar I TPS	420	399	432	394	8.97	374	9.14	-0.18	
	Unchahar II TPS	420	398	422	360	8.63	359	8.70	-0.08	
	Unchahar III TPS	210	198	207	184	4.31	180	4.33	-0.02	
	ISTPP (Jhajjar)	1500	940	715	646	15.16	632	15.51	-0.35	
	Dadri GPS	830	798	302	316	7.63	318	7.65	-0.02	
	Anta GPS	419	381	220	170	5.35	223	5.58	-0.23	
	Auraiva GPS	663	616	147	151	3.45	144	3.58	-0.13	
	Sub Total (A)	10782	9778	8574	7811	190.36	7932	195.11	-4.75	
	B. NPC	NAPS	440	292	325	335	7.04	293	7.01	0.03
RAPS- B		440	398	436	445	9.46	394	9.55	-0.09	
RAPS- C		440	220	230	234	4.79	200	5.28	-0.49	
Sub Total (B)		1320	910	991	1014	21.29	887	21.84	-0.55	
C. NHPC	Chamera I HPS	540	540	540	540	12.65	527	11.49	1.17	
	Chamera II HPS	300	303	302	302	7.13	297	7.22	-0.09	
	Chamera III HPS	231	231	216	228	5.29	220	5.53	-0.24	
	Bairasuil HPS	180	182	180	182	3.39	141	3.19	0.20	
	Salal-HPS	690	648	665	667	15.22	634	15.61	-0.39	
	Tanakpur-HPS	94	61	59	61	1.40	58	1.46	-0.06	
	Uri-HPS	480	477	475	467	11.23	468	11.39	-0.16	
	Dhauliganga-HPS	280	263	284	278	6.51	271	6.28	0.23	
	Dulhasti-HPS	390	387	399	390	9.26	386	9.30	-0.05	
	Sewa-II HPS	120	119	122	68	2.08	87	2.11	-0.03	
	Sub Total (C)	3305	3211	3242	3183	74.16	3090	73.58	0.58	
	D. NJPC	Nathpa Jhakri	1500	1605	1556	1607	38.50	1604	38.52	-0.02
		Sub Total (D)	1500	1605	1556	1607	38.50	1604	38.52	-0.02
E. THDC	Tehri HPS	1000	465	425	466	10.38	432	10.50	-0.12	
	Koteshwar HPS	400	278	272	83	4.55	190	4.55	0.00	
	Sub Total (E)	1400	743	697	549	14.93	622	15.05	-0.12	
F. BBMB	Bhakra HPS	1480	722	1188	666	17.71	738	17.32	0.39	
	Dehar HPS	990	587	825	560	14.59	608	14.09	0.50	
	Pong HPS	396	135	292	60	3.30	138	3.24	0.06	
	Sub Total (F)	2866	1444	2305	1286	35.60	1483	34.65	0.95	
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	232	233	5.47	228	5.31	0.16	
	KWHEP HPS(IPP)	1000	0	1200	1200	28.46	1186	28.51	-0.05	
	Malana Stg-II HPS	100	0	109	106	1.16	48	2.02	-0.86	
	Shree Cement TPS	300	0	223	262	5.53	230	5.50	0.03	
	Budhil HPS(IPP)	70	0	0	69	1.23	141	1.63	-0.40	
	Sub Total (G)	1662	0	1764	1870	41.85	1744	42.97	-1.12	
H. Total Regional Entities (A-G)	22836	17691	19129	17320	416.69	17362	421.72	-5.03		

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	1260	27.17	1132
	Guru Nanak Dev TPS(Bhatinda)	440	225	105	4.20	175
	Guru Hargobind Singh TPS(L.mbt)	920	690	686	14.81	617
	Thermal (Total)	2620	2175	2051	46.18	1924
	Total Hydro	1148	364	371	9.75	406
Total Punjab	3768	2539	2422	55.92	2330	
Haryana	Panipat TPS	1367	607	651	15.04	627
	DCRTPP (Yamuna nagar)	600	513	340	11.64	485
	Faridabad GPS (NTPC)	432	179	158	4.04	168
	RGTPP (khedar) (IPP)	1200	908	1093	24.21	1009
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	1320	569	382	9.80	408
	Thermal (Total)	4944	2776	2624	64.73	2697
	Total Hydro	62	24	25	0.63	26
	Total Haryana	5006	2800	2649	65.37	2724
	Rajasthan	kota TPS	1240	1091	1041	26.25
suratgarh TPS		1500	940	937	22.88	954
Chabra TPS		500	0	0	0.00	0
Dholpur GPS		330	105	121	2.80	117
Ramgarh GPS		111	147	115	3.13	130
RAPS A (NPC)		300	192	192	4.31	180
Barsingsar (NLC)		250	205	205	4.85	202
Giral LTPS		250	60	60	1.38	57
Rajwest LTPS (IPP)		1080	693	743	15.94	664
VSLP LTPS (IPP)		135	0	0	0.00	0
Thermal (Total)		5696	3433	3414	81.55	3398
Total Hydro		550	0	0	0.00	0
Wind power		2191	670	1205	23.73	989
Biomass		91	27	27	0.65	27
Solar		201	0	0	1.79	75
Renewable/Others (Total)		2483	697	1232	26.16	1090
Total Rajasthan		8729	4130	4646	107.72	4488
UP	Anpara TPS	1630	1330	1287	28.30	1179
	Obra TPS	1288	413	409	9.00	375
	Paricha TPS	1140	876	923	19.50	813
	Panki TPS	210	160	165	3.10	129
	Harduaganj TPS	665	41	0	1.30	54
	Tanda TPS (NTPC)	440	387	401	9.70	404
	Roza TPS (IPP)	1200	707	742	17.55	731
	Anpara-C (IPP)	1200	644	642	15.31	638
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	358	403	8.26	344
	Thermal (Total)	8223	4916	4972	112.01	4667
	Vishnuparyag HPS (IPP)	400	436	436	10.46	436
	Other Hydro	527	209	189	4.72	197
	Cogeneration	981	350	350	8.40	350
	Total UP	10131	5911	5947	135.58	5214
Uttarakhand	Total Hydro	1303	748	712	17.91	746
	Total Uttarakhand	1303	748	712	17.91	746
Delhi	Rajghat TPS	135	48	18	0.98	41
	Delhi Gas Turbine	282	183	188	4.25	177
	Pragati Gas Turbine	330	275	285	6.78	283
	Rithala GPS	95	0	0	0.00	0
	Bawana GPS	686	223	217	5.53	231
	Badarpur TPS (NTPC)	705	565	600	13.49	562
	Thermal (Total)	2232	1294	1308	31.03	1293
	Total Delhi	2232	1294	1308	31.03	1293
HP	Baspa HPS (IPP)	330	330	330	7.80	325
	Malana HPS (IPP)	86	82	93	2.00	83
	Other Hydro	589	547	527	12.74	531
	Total HP	1005	959	950	22.53	939
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	18927	19196	449.45	18291
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			2991	3036	78.94	3289
Total Regional Availability(Gross)		55966	41047	39552	945.08	38943

IV. Total Hydro Generation:

Regional Entities Hydro	10364	9341	8164	198.28	8262
State Control Area Hydro	5368	2850	2809	79.39	2872
Total Regional Hydro	15731	12191	10973	277.66	11134

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	50	-100	150	150	1.10	0.94	0.15
Gwalior-Agra (D/C)	608	1068	1095	0	22.71	0.00	22.71
Zerda-Kankroli	-65	-161	0	269	0.00	3.56	-3.56
Zerda-Bhinmal	-71	-145	14	281	0.00	2.91	-2.91
Malanpur-Auraiya	-141	-52	0	141	0.00	1.87	-1.87
Badod-Kota/Morak	-72	-51	0	142	0.00	1.45	-1.45
Mundra-Mohindergarh(HVDC)	1433	1137	1433	0	28.37	0.00	28.37
Sub Total WR	1742	1696			52.18	10.73	41.45
Pusauli Bypass	150	150	150	0	3.62	0.00	3.62
MZP- GKP (D/C)	404	488	774	0	14.15	0.00	14.15
Patna-Balia(D/C)	447	489	582	0	11.71	0.00	11.71
B'Sharif-Balia (D/C)	191	197	339	0	5.98	0.00	5.98
Pusauli-Balia	-65	-66	0	99	0.00	1.20	-1.20
Gaya-Fatehpur (765 Kv)	11	-42	106	92	0.66	0.00	0.66
Pusauli-Sahupuri	147	164	179	0	3.64	0.00	3.64
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	1249	1340			39.76	2.26	37.49
Total IR Exch	2991	3036			91.94	12.99	78.94

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
32.63	1.42	34.05	-2.44	6.35	0.29	-7.47	-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
30.98	44.63	75.60	37.49	41.45	78.94	6.52	-3.18	3.34

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	85.55	85.55	65.60	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				
50.55	6.03	49.75	0.04	50.06	0.20	0.13	50.46	49.95

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	03:59	401	09:11	0.0	0.0	0.0	0.0
Gorakhpur	400	420	18:31	405	10:36	0.0	0.0	0.0	0.0
Bareilly	400	0	00:00	9999	00:00	0.0	0.0	0.0	0.0
Kanpur	400	416	04:02	398	16:10	0.0	0.0	0.0	0.0
Dadri	400	412	06:01	394	15:16	0.0	0.0	0.0	0.0
Ballabgarh	400	420	04:02	399	16:10	0.0	0.0	0.0	0.0
Bawana	400	414	06:03	398	12:39	0.0	0.0	0.0	0.0
Bassi	400	421	04:02	399	16:10	0.0	0.0	0.2	0.0
Hissar	400	406	04:02	393	12:38	0.0	0.0	0.0	0.0
Moga	400	417	04:01	401	15:22	0.0	0.0	0.0	0.0
Abdullapur	400	408	06:05	396	11:15	0.0	0.0	0.0	0.0
Nalagarh	400	413	06:02	397	15:16	0.0	0.0	0.0	0.0
Kishenpur	400	413	04:04	398	16:40	0.0	0.0	0.0	0.0
Wagoora	400	413	03:41	394	06:38	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	775	04:02	713	09:27	28.6	40.3	0.0	0.0
Balia	765	762	17:37	722	10:41	2.3	27.3	0.0	0.0
Moga	765	794	04:03	763	15:18	0.0	0.0	0.0	0.0
Agra	765	797	04:04	759	16:10	0.0	0.0	0.0	0.0
Bhiwani	765	784	04:02	752	12:39	0.0	0.0	0.0	0.0
Unnao	765	764	18:31	737	10:15	0.0	14.9	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	477.04	394.40	468.79	248.16	1152.32	610.14
Pong	426.72	384.05	399.13	197.21	401.42	252.05	248.96	252.93
Tehri	829.79	740.04	752.40	63.22	818.65	982.26	286.60	341.00
Koteshwar	612.50	598.50	NA	NA	NA	NA	NA	NA
Chamera-I	760.00	748.75	758.14	NA	NA	NA	401.59	351.58
Rihand	268.22	252.98	256.03	119.90	256.64	142.50	312.77	NA
RPS	352.80	343.81	347.33	NA	NA	NA	NA	NA
Jawahar Sagar	298.70	295.78	298.06	NA	NA	NA	NA	NA
RSD	527.91	487.91	508.07	NA	499.87	NA	318.73	182.56

* NA: Not Available

X. System Constraints:

XI. Grid Disturbance / Any Other Significant Event:

XII. Weather Conditions For 24.05.2013 :

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 : 24.05.2013

पारी प्रभाती अजिंयता / SHIFT CHARGE ENGINEER