

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 25.05.2013
Date of Reporting : 26.05.2013

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
38628	2100	40728	50.10	38948	1148	40096	50.17	929.1	53.76

* 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	44.84	9.68		54.52	105.26	106.67	1.42	161.20	0.00
Haryana	59.85	0.59		60.44	80.50	78.95	-1.55	139.39	0.00
Rajasthan	81.79	0.00	35.26	117.05	55.92	48.06	-7.87	165.11	0.00
Delhi	30.49			30.49	78.60	74.80	-3.80	105.29	0.19
UP	119.87	14.87	8.40	143.14	116.62	116.57	-0.06	259.71	49.27
Uttarakhand		17.63		17.63	16.77	18.19	1.42	35.82	1.60
HP		22.59		22.59	4.78	3.57	-1.20	26.17	1.00
J & K		13.40	0.00	13.40	19.34	16.86	-2.48	30.26	1.70
Chandigarh				0.00	5.51	6.21	0.70	6.21	0.00
Total	336.83	78.76	43.66	459.25	483.29	469.89	-13.40	929.14	53.76

* 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	7141	0	81	1312	6208	0	51	1090	35.11
Haryana	5667	0	-445	277	5887	0	63	245	5.08
Rajasthan	6512	0	-667	170	6976	0	-160	211	4.79
Delhi	4401	45	-310	182	4446	8	-145	-56	3.13
UP	10510	1880	-14	122	11697	1140	-125	1841	14.17
Uttarakhand	1624	75	116	193	1488	0	70	156	3.87
HP	1048	0	-180	-932	964	0	-7	-1149	-23.10
J&K	1461	100	13	-239	1055	0	-227	-320	-6.37
Chandigarh	265	0	13	0	227	0	28	0	0.40
Total	38628	2100	-1394	1083	38948	1148	-452	2017	37.09

* 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	1832	1866	2083	44.43	1851	43.95	0.48
	Rihand I STPS	1000	911	791	989	20.83	868	21.02	-0.20
	Rihand II STPS	1000	965	804	1032	22.33	930	22.36	-0.03
	Rihand III STPS	500	465	426	505	10.74	448	10.73	0.01
	Dadri I STPS	840	807	848	696	17.30	721	19.05	-1.75
	Dadri II STPS	980	969	946	790	19.81	825	21.13	-1.32
	Unchahar I TPS	420	399	389	428	9.12	380	9.39	-0.27
	Unchahar II TPS	420	393	402	430	8.81	367	9.00	-0.19
	Unchahar III TPS	210	195	200	215	4.18	174	4.23	-0.05
	ISTPP (Jhajjar)	1500	940	603	648	14.24	593	15.80	-1.56
	Dadri GPS	830	798	313	363	7.51	313	7.48	0.03
	Anta GPS	419	381	186	202	4.95	206	5.07	-0.12
	Auraiva GPS	663	617	146	152	3.43	143	3.67	-0.24
	Sub Total (A)	10782	9671	7920	8533	187.67	7819	192.87	-5.20
	B. NPC	NAPS	440	292	328	334	6.97	290	7.01
RAPS- B		440	342	387	390	7.99	333	8.21	-0.22
RAPS- C		440	220	395	232	6.14	256	5.28	0.86
Sub Total (B)		1320	854	1110	956	21.09	879	20.50	0.59
C. NHPC	Chamera I HPS	540	540	540	540	13.17	549	12.95	0.22
	Chamera II HPS	300	303	310	303	7.28	303	7.23	0.05
	Chamera III HPS	231	231	226	226	5.46	228	5.42	0.04
	Bairasuil HPS	180	182	182	160	3.11	130	3.42	-0.31
	Salal-HPS	690	622	662	664	14.71	613	14.97	-0.27
	Tanakpur-HPS	94	68	90	61	1.61	67	1.62	0.00
	Uri-HPS	480	476	473	471	11.43	476	11.47	-0.04
	Dhauliganga-HPS	280	277	279	279	6.73	280	6.74	-0.01
	Dulhasti-HPS	390	387	409	406	9.33	389	9.36	-0.03
	Sewa-II HPS	120	119	123	0	2.09	87	2.10	-0.01
	Sub Total (C)	3305	3205	3294	3110	74.92	3122	75.27	-0.36
	D.NJPC	Nathpa Jhakri	1500	1605	1618	1617	38.62	1609	38.52
Sub Total (D)	1500	1605	1618	1617	38.62	1609	38.52	0.10	
E. THDC	Tehri HPS	1000	460	464	463	10.43	435	10.50	-0.07
	Koteshwar HPS	400	278	275	84	4.61	192	4.55	0.06
	Sub Total (E)	1400	738	739	547	15.04	627	15.05	-0.01
F. BBMB	Bhakra HPS	1480	799	1222	520	19.69	820	19.17	0.52
	Dehar HPS	990	589	825	640	14.87	620	14.13	0.74
	Pong HPS	396	102	292	60	2.41	100	2.44	-0.03
	Sub Total (F)	2866	1489	2339	1220	36.97	1540	35.73	1.24
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	233	234	5.47	228	5.31	0.17
	KWHEP HPS(IPP)	1000	0	1200	1200	28.52	1188	28.51	0.01
	Malana Stg-II HPS	100	0	100	109	2.51	105	2.23	0.28
	Shree Cement TPS	300	0	222	231	5.72	238	5.54	0.18
	Budhil HPS(IPP)	70	0	34	0	0.58	24	1.65	-1.08
	Sub Total (G)	1662	0	1789	1774	42.80	1783	43.24	-0.45
H. Total Regional Entities (A-G)	22836	17562	18809	17757	417.11	17380	421.19	-4.08	

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	1080	26.62	1109
	Guru Nanak Dev TPS(Bhatinda)	440	225	185	4.49	187
	Guru Hargobind Singh TPS(L.mbt)	920	695	598	13.73	572
	Thermal (Total)	2620	2180	1863	44.84	1868
	Total Hydro	1148	467	365	9.68	403
	Total Punjab	3768	2647	2228	54.52	2272
Haryana	Panipat TPS	1367	640	645	15.47	645
	DCRTPP (Yamuna nagar)	600	559	557	13.17	549
	Faridabad GPS (NTPC)	432	150	151	4.14	173
	RGTPP (khedar) (IPP)	1200	1065	1077	26.85	1119
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	1320	0	0	0.21	9
	Thermal (Total)	4944	2414	2430	59.85	2494
	Total Hydro	62	20	24	0.59	25
	Total Haryana	5006	2434	2454	60.44	2518
	Rajasthan	kota TPS	1240	1091	1089	25.58
suratgarh TPS		1500	943	936	22.54	939
Chabra TPS		500	198	0	3.39	141
Dholpur GPS		330	101	105	2.43	101
Ramgarh GPS		111	60	90	2.15	90
RAPS A (NPC)		300	192	192	4.26	178
Barsingsar (NLC)		250	168	204	4.09	170
Giral LTPS		250	66	62	1.37	57
Rajwest LTPS (IPP)		1080	687	693	15.97	666
VSLP LTPS (IPP)		135	0	0	0.00	0
Thermal (Total)		5696	3506	3371	81.79	3408
Total Hydro		550	0	0	0.00	0
Wind power		2191	1249	1378	33.28	1387
Biomass		91	21	21	0.51	21
Solar		201	0	0	1.47	61
Renewable/Others (Total)		2483	1270	1399	35.26	1469
Total Rajasthan		8729	4776	4770	117.05	4877
UP		Anpara TPS	1630	1262	1321	28.30
	Obra TPS	1288	364	413	8.30	346
	Paricha TPS	1140	779	927	17.70	738
	Panki TPS	210	70	65	1.40	58
	Harduaganj TPS	665	447	423	9.40	392
	Tanda TPS (NTPC)	440	396	400	9.72	405
	Roza TPS (IPP)	1200	923	720	20.83	868
	Anpara-C (IPP)	1200	692	642	15.90	663
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	359	362	8.31	346
	Thermal (Total)	8223	5292	5273	119.87	4995
	Vishnuparyag HPS (IPP)	400	436	436	10.46	436
	Other Hydro	527	208	204	4.42	184
	Cogeneration	981	350	350	8.40	350
	Total UP	10131	6286	6263	143.14	5529
Uttarakhand	Total Hydro	1303	754	748	17.63	734
	Total Uttarakhand	1303	754	748	17.63	734
Delhi	Rajghat TPS	135	51	0	1.01	42
	Delhi Gas Turbine	282	182	146	3.95	164
	Pragati Gas Turbine	330	273	282	6.68	279
	Rithala GPS	95	0	0	0.00	0
	Bawana GPS	686	246	211	5.65	236
	Badarpur TPS (NTPC)	705	575	625	13.20	550
	Thermal (Total)	2232	1327	1264	30.49	1270
	Total Delhi	2232	1327	1264	30.49	1270
	HP	Baspa HPS (IPP)	330	330	330	7.82
Malana HPS (IPP)		86	85	101	2.23	93
Other Hydro		589	530	512	12.55	523
Total HP		1005	945	943	22.59	941
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	19715	19232	459.25	18700
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			2477	3787	74.00	3083
Total Regional Availability(Gross)		55966	41001	40776	950.37	39163

IV. Total Hydro Generation:

Regional Entities Hydro	10364	9523	8037	202.05	8419
State Control Area Hydro	5368	2940	2846	78.76	2846
Total Regional Hydro	15731	12463	10883	280.81	11265

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	-150	0	200	0.00	4.26	-4.26
Gwalior-Agra (D/C)	794	1042	1268	0	22.49	0.00	22.49
Zerda-Kankroli	-205	-170	0	288	0.00	5.22	-5.22
Zerda-Bhinmal	-221	-181	14	391	0.00	5.26	-5.26
Malanpur-Auraiya	-54	-49	0	93	0.00	1.40	-1.40
Badod-Kota/Morak	-119	-51	0	-124	0.00	2.02	-2.02
Mundra-Mohindergarh(HVDC)	1432	1431	1435	0	32.47	0.00	32.47
Sub Total WR	1427	1872			54.96	18.16	36.80
Pusauli Bypass	100	150	150	0	3.28	0.00	3.28
MZP- GKP (D/C)	270	722	690	0	13.12	0.00	13.12
Patna-Balia(D/C)	359	623	656	0	11.55	0.00	11.55
B'Sharif-Balia (D/C)	228	287	367	0	6.71	0.00	6.71
Pusauli-Balia	-33	-38	0	53	0.00	0.85	-0.85
Gaya-Fatehpur (765 Kv)	17	49	138	118	0.76	0.00	0.76
Pusauli-Sahupuri	145	162	167	0	3.70	0.00	3.70
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	1050	1915			39.12	1.91	37.21
Total IR Exch	2477	3787			94.08	20.08	74.00

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
33.10	1.69	34.79	-2.44	5.03	0.62	-7.57	-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
32.05	46.68	78.72	37.21	36.80	74.00	5.16	-9.88	-4.72

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	87.90	87.80	58.90	12.10

<----- 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				
50.47	8.08	49.63	14.29	50.04	0.19	0.13	50.50	49.90

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	411	18:02	402	09:43	0.0	0.0	0.0	0.0
Gorakhpur	400	423	21:09	406	01:10	0.0	0.0	6.6	0.0
Bareilly	400	0	00:00	9999	00:00	0.0	0.0	0.0	0.0
Kanpur	400	416	18:01	400	16:49	0.0	0.0	0.0	0.0
Dadri	400	410	06:01	397	16:49	0.0	0.0	0.0	0.0
Ballabgarh	400	418	06:03	401	16:48	0.0	0.0	0.0	0.0
Bawana	400	413	06:03	400	15:06	0.0	0.0	0.0	0.0
Bassi	400	418	04:03	399	09:45	0.0	0.0	0.0	0.0
Hissar	400	405	19:02	393	16:48	0.0	0.0	0.0	0.0
Moga	400	415	04:01	402	15:11	0.0	0.0	0.0	0.0
Abdullapur	400	407	06:03	396	16:49	0.0	0.0	0.0	0.0
Nalagarh	400	411	19:19	398	15:11	0.0	0.0	0.0	0.0
Kishenpur	400	411	03:04	400	15:08	0.0	0.0	0.0	0.0
Wagoora	400	413	02:59	399	21:10	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	759	16:08	718	12:52	10.3	85.3	0.0	0.0
Balia	765	771	06:05	726	11:09	0.5	34.1	0.0	0.0
Moga	765	789	04:03	765	15:14	0.0	0.0	0.0	0.0
Agra	765	792	06:06	756	16:51	0.0	0.0	0.0	0.0
Bhiwani	765	783	06:07	757	16:49	0.0	0.0	0.0	0.0
Unnao	765	768	18:16	742	00:07	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	477.62	407.63	468.64	248.16	686.40	610.14
Pong	426.72	384.05	399.23	203.01	401.24	244.95	302.28	252.93
Tehri	829.79	740.04	752.20	63.22	818.65	982.26	274.48	341.00
Koteshwar	612.50	598.50	606.40	NA	610.00	NA	343.00	NA
Chamera-I	760.00	748.75	758.86	NA	NA	NA	409.52	351.58
Rihand	268.22	252.98	256.03	117.50	256.80	140.00	312.77	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	508.28	NA	499.86	NA	318.73	182.56

* NA: Not Available

X. System Constraints:

XI. Grid Disturbance / Any Other Significant Event:

XII. Weather Conditions For 25.05.2013 :

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 : 25.05.2013

पारी प्रभाती अश्विनी / SHIFT CHARGE ENGINEER