

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 07.05.2013
Date of Reporting : 08.05.2013

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
35637	2682	38319	50.04	32058	1693	33751	49.78	811.1	64.04

* 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	43.14	9.54		52.68	74.62	74.48	-0.15	127.15	3.53
Haryana	48.34	0.60		48.94	66.89	67.59	0.71	116.53	3.30
Rajasthan	96.90	0.00	6.20	103.10	57.95	55.92	-2.03	159.02	0.88
Delhi	33.42			33.42	59.80	58.72	-1.08	92.14	0.77
UP	123.01	6.36	9.60	138.96	89.72	88.52	-1.21	227.48	49.81
Uttarakhand		13.18		13.18	17.86	18.63	0.77	31.81	3.18
HP		11.69		11.69	10.32	11.01	0.69	22.70	0.88
J & K		12.83	0.00	12.83	16.78	16.86	0.08	29.69	1.70
Chandigarh				0.00	4.54	4.59	0.05	4.59	0.00
Total	344.80	54.19	15.80	414.78	398.48	396.32	-2.16	811.10	64.04

* 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	5965	0	-113	709	5162	215	-193	895	17.36
Haryana	5542	247	99	293	4432	0	193	-174	1.01
Rajasthan	6553	0	-268	111	6246	41	2	125	5.08
Delhi	4100	0	-119	-575	3554	42	-98	-541	-10.94
UP	9402	2120	-355	107	9428	1245	119	486	6.74
Uttarakhand	1423	215	-31	416	1181	150	22	318	7.85
HP	951	0	-54	-622	832	0	63	-228	-8.01
J&K	1464	100	36	-250	1074	0	-6	-249	-6.06
Chandigarh	238	0	0	0	149	0	0	10	0.27
Total	35637	2682	-806	190	32058	1693	102	641	13.31

* 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	1791	1555	2077	43.03	1793	42.98	0.05
	Rihand I STPS	1000	915	993	990	22.07	919	21.96	0.11
	Rihand II STPS	1000	970	1035	1039	23.36	973	23.28	0.08
	Rihand III STPS	500	335	0	492	8.04	335	8.03	0.00
	Dadri I STPS	840	689	846	650	16.59	691	16.53	0.07
	Dadri II STPS	980	708	904	813	16.49	687	16.99	-0.50
	Unchahar I TPS	420	387	429	432	9.31	388	9.29	0.02
	Unchahar II TPS	420	396	440	439	9.57	399	9.50	0.07
	Unchahar III TPS	210	98	0	220	2.21	92	2.35	-0.14
	ISTPP (Jhajjar)	1500	641	939	247	13.50	563	14.92	-1.42
	Dadri GPS	830	797	375	357	8.52	355	9.08	-0.57
	Anta GPS	419	264	217	211	5.05	211	4.86	0.19
	Auraiva GPS	663	610	150	155	3.52	147	4.95	-1.43
	Sub Total (A)	10782	8600	7883	8122	181.24	7552	184.73	-3.49
	B. NPC	NAPS	440	304	333	342	7.22	301	7.30
RAPS- B		440	401	443	445	9.55	398	9.62	-0.08
RAPS- C		440	430	465	468	10.01	417	10.32	-0.32
Sub Total (B)		1320	1135	1241	1255	26.77	1116	27.24	-0.47
C. NHPC	Chamera I HPS	540	540	540	0	6.72	280	6.55	0.17
	Chamera II HPS	300	310	207	0	3.81	159	3.74	0.07
	Chamera III HPS	231	215	154	0	2.55	106	2.43	0.12
	Bairasuil HPS	180	182	12	120	2.19	91	2.01	0.18
	Salal-HPS	690	360	629	335	9.51	396	8.64	0.87
	Tanakpur-HPS	94	32	45	32	0.81	34	0.78	0.03
	Uri-HPS	480	480	480	480	11.63	485	11.52	0.11
	Dhauliganga-HPS	280	280	264	0	1.99	83	1.80	0.19
	Dulhasti-HPS	390	387	401	398	7.89	329	7.57	0.32
	Sewa-II HPS	120	119	121	39	2.22	93	1.77	0.45
	Sub Total (C)	3305	2904	2853	1404	49.32	2055	46.82	2.50
	D.NJPC	Nathpa Jhakri	1500	1605	1557	216	17.64	735	17.50
Sub Total (D)		1500	1605	1557	216	17.64	735	17.50	0.14
E. THDC	Tehri HPS	1000	330	336	152	6.83	285	6.60	0.23
	Koteswar HPS	400	241	243	0	2.67	111	2.60	0.07
	Sub Total (E)	1400	571	579	152	9.51	396	9.20	0.30
F. BBMB	Bhakra HPS	1480	882	1108	818	21.42	893	21.17	0.25
	Dehar HPS	990	356	660	290	8.77	365	8.54	0.23
	Pong HPS	396	19	180	0	0.48	20	0.25	0.23
	Sub Total (F)	2866	1257	1948	1108	30.67	1278	29.96	0.71
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	60	30	0.94	39	1.36	-0.43
	KWHEP HPS(IPP)	1000	0	450	248	9.64	402	9.60	0.04
	Malana Stg-II HPS	100	0	25	91	0.56	23	0.50	0.06
	Shree Cement TPS	300	0	204	268	5.98	249	5.36	0.62
	Budhil HPS(IPP)	70	0	35	25	0.58	24	0.60	-0.02
	Sub Total (G)	1662	0	774	662	17.69	737	17.42	0.27
H. Total Regional Entities (A-G)	22836	16072	16835	12919	332.84	13868	332.87	-0.03	

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	1050	1054	23.05	961
	Guru Nanak Dev TPS(Bhatinda)	440	105	120	2.35	98
	Guru Hargobind Singh TPS(L.mbt)	920	921	733	17.73	739
	Thermal (Total)	2620	2076	1907	43.14	1797
	Total Hydro	1148	347	378	9.54	398
	Total Punjab	3768	2423	2285	52.68	2195
Haryana	Panipat TPS	1367	953	962	23.52	980
	DCRTPP (Yamuna nagar)	600	278	279	6.61	276
	Faridabad GPS (NTPC)	432	157	163	4.00	167
	RGTPP (khedar) (IPP)	1200	0	0	0.00	0
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	1320	620	599	14.21	592
	Thermal (Total)	4944	2008	2003	48.34	2014
	Total Hydro	62	23	24	0.60	25
	Total Haryana	5006	2031	2027	48.94	2039
	Rajasthan	kota TPS	1240	1112	1164	27.39
suratgarh TPS		1500	1137	1130	28.42	1184
Chabra TPS		500	200	218	5.37	224
Dholpur GPS		330	126	100	2.26	94
Ramgarh GPS		111	138	115	2.92	122
RAPS A (NPC)		300	180	180	4.30	179
Barsingsar (NLC)		250	208	210	4.98	207
Giral LTPS		250	128	128	2.25	94
Rajwest LTPS (IPP)		1080	814	762	19.02	792
VSLP LTPS (IPP)		135	0	0	0.00	0
Thermal (Total)		5696	4043	4007	96.90	4038
Total Hydro		550	0	0	0.00	0
Wind power		2191	358	32	4.21	175
Biomass		91	37	37	0.88	37
Solar		201	0	0	1.11	46
Renewable/Others (Total)		2483	395	69	6.20	258
Total Rajasthan		8729	4438	4076	103.10	4296
UP	Anpara TPS	1630	1413	1380	33.20	1383
	Obra TPS	1288	444	494	11.40	475
	Paricha TPS	1140	560	787	14.50	604
	Panki TPS	210	149	149	3.30	138
	Harduaganj TPS	665	301	139	5.70	238
	Tanda TPS (NTPC)	440	398	401	9.79	408
	Roza TPS (IPP)	1200	1053	1053	25.20	1050
	Anpara-C (IPP)	1200	540	248	10.31	429
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	405	405	9.60	400
	Thermal (Total)	8223	5263	5056	123.01	5125
	Vishnuparyag HPS (IPP)	400	168	139	3.37	140
	Other Hydro	527	174	152	2.99	124
	Cogeneration	981	400	400	9.60	400
	Total UP	10131	6005	5747	138.96	5650
Uttarakhand	Total Hydro	1303	572	474	13.18	549
	Total Uttarakhand	1303	572	474	13.18	549
Delhi	Rajghat TPS	135	104	104	2.42	101
	Delhi Gas Turbine	282	153	130	3.60	150
	Pragati Gas Turbine	330	282	291	7.02	293
	Rithala GPS	95	0	0	0.00	0
	Bawana GPS	686	285	248	5.02	209
	Badarpur TPS (NTPC)	705	690	700	15.36	640
	Thermal (Total)	2232	1514	1473	33.42	1392
	Total Delhi	2232	1514	1473	33.42	1392
HP	Baspa HPS (IPP)	330	58	97	2.13	89
	Malana HPS (IPP)	86	28	79	0.61	26
	Other Hydro	589	320	385	8.95	373
	Total HP	1005	406	561	11.69	487
J & K	Baglihar HPS (IPP)	450	436	436	9.80	408
	Other Hydro	323	125	156	3.03	126
	Gas/Diesel/Others	183	0	0	0.00	0
	Total J & K	956	561	592	12.83	534
Total State Control Area Generation		33130	17950	17235	414.78	17142
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			2946	4500	88.69	3695
Total Regional Availability(Gross)		55966	37731	34654	836.30	34706

IV. Total Hydro Generation:

Regional Entities Hydro	10364	7472	3249	118.27	4928
State Control Area Hydro	5368	2083	2181	54.19	2117
Total Regional Hydro	15731	9555	5430	172.46	7045

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	350	100	350	100	4.76	0.25	4.51
Gwalior-Agra (D/C)	787	1362	1467	0	26.17	0.00	26.17
Zerda-Kankroli	-122	-92	0	130	0.00	3.04	-3.04
Zerda-Bhinmal	-108	-44	46	215	0.00	1.85	-1.85
Malanpur-Auraiya	-117	-36	0	117	0.00	1.44	-1.44
Badod-Kota/Morak	-121	-49	0	149	0.00	2.21	-2.21
Mundra-Mohindergarh(HVDC)	968	967	1063	0	23.61	0.00	23.61
Sub Total WR	1637	2208			54.54	8.79	45.75
Pusauli Bypass	-300	-100	0	300	0.00	4.39	-4.39
MZP- GKP (D/C)	460	770	770	0	13.03	0.00	13.03
Patna-Balia(D/C)	559	737	877	0	17.17	0.00	17.17
B'Sharif-Balia (D/C)	314	403	497	0	9.14	0.00	9.14
Pusauli-Balia	63	103	120	0	1.52	0.00	1.52
Gaya-Fatehpur (765 Kv)	100	284	284	6	4.45	0.00	4.45
Pusauli-Sahupuri	149	135	164	0	3.08	0.00	3.08
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	1309	2292			48.39	5.46	42.94
Total IR Exch	2946	4500			102.93	14.25	88.69

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
38.73	0.99	39.72	-3.45	3.42	5.39	-7.54	-1.60	1.60

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
40.05	39.47	79.52	42.94	45.75	88.69	2.88	6.28	9.16

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	0.50	9.20	98.70	90.00	10.20	0.80

<----- 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				
50.35	19.03	49.25	10.10	49.86	0.35	0.12	50.26	49.64

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	404	0:00	399	17:06	0.0	0.0	0.0	0.0
Gorakhpur	400	423	1:12	403	10:11	0.0	0.0	5.7	0.0
Bareilly	400	0	0:00	9999	0:00	0.0	0.0	0.0	0.0
Kanpur	400	416	18:31	400	10:10	0.0	0.0	0.0	0.0
Dadri	400	412	18:03	392	10:08	0.0	0.0	0.0	0.0
Ballabgarh	400	421	18:32	397	10:10	0.0	0.0	0.1	0.0
Bawana	400	416	21:23	399	11:30	0.0	0.0	0.0	0.0
Bassi	400	427	18:05	397	10:11	0.0	0.0	10.4	0.0
Hissar	400	412	18:03	382	10:08	0.0	5.2	0.0	0.0
Moga	400	421	18:02	392	10:09	0.0	0.0	0.3	0.0
Abdullapur	400	416	4:04	394	10:56	0.0	0.0	0.0	0.0
Nalagarh	400	420	13:04	397	10:07	0.0	0.0	0.0	0.0
Kishenpur	400	416	17:27	396	10:09	0.0	0.0	0.0	0.0
Wagoora	400	416	17:27	388	6:48	0.0	0.8	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	754	13:19	726	10:10	0.0	0.0	100.0	100.0
Balia	765	774	20:44	697	9:40	0.0	0.0	100.0	100.0
Moga	765	801	18:03	741	10:10	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 (m³/s)	Usage (m³/s)
Bhakra	513.59	445.62	477.29	401.01	472.63	313.90	369.59	763.31
Pong	426.72	384.05	400.36	223.85	403.22	296.79	47.54	42.65
Tehri	829.79	740.04	759.75	120.00	818.65	982.26	84.10	209.00
Koteshwar	612.50	598.50	610.40	0.45	NA	NA	202.00	167.00
Chamera-I	760.00	748.75	NA	NA	NA	NA	168.91	175.06
Rihand	268.22	252.98	256.92	154.20	257.71	188.40	NA	NA
RPS	352.80	343.81	346.16	NA	348.64	NA	NA	NA
Jawahar Sagar	298.70	295.78	298.03	NA	298.31	NA	NA	NA
RSD	527.91	487.91	507.20	NA	498.84	NA	174.35	164.78

* NA: Not Available

X. System Constraints:

XI. Grid Disturbance / Any Other Significant Event:

XII. Weather Conditions For 07.05.2013 :

1.Hot & Dry 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 : 07.05.2013

पारी प्रभाती अश्विन्ता / SHIFT CHARGE ENGINEER