

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 08.04.2013
Date of Reporting : 09.04.2013

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
32088	2329	34417	50.11	26505	2409	28914	50.14	692.4	45.70

* 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	42.43	7.95		50.38	49.20	48.95	-0.25	99.33	0.00
Haryana	36.73	0.57		37.31	54.30	54.64	0.34	91.95	0.36
Rajasthan	78.68	0.73	15.62	95.02	48.00	45.18	-2.82	140.20	1.35
Delhi	26.34			26.34	43.20	42.05	-1.15	68.39	0.12
UP	98.59	5.25	19.20	123.05	81.07	81.55	0.48	204.59	41.55
Uttarakhand		10.48		10.48	18.55	19.94	1.39	30.42	0.37
HP		10.66		10.66	13.90	12.25	-1.65	22.91	0.00
J & K		11.55	0.00	11.55	20.16	19.24	-0.92	30.79	1.70
Chandigarh				0.00	3.94	3.84	-0.10	3.84	0.24
Total	282.78	47.19	34.82	364.78	332.32	327.63	-4.69	692.41	45.70

* 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	4918	0	-29	146	3946	0	-77	460	6.14
Haryana	4814	170	-88	103	3426	0	44	-392	-4.50
Rajasthan	6010	229	194	211	5598	0	-390	-47	1.27
Delhi	3291	60	168	-242	2035	4	49	-708	-9.83
UP	8688	1770	32	-24	8546	2405	19	117	0.98
Uttarakhand	1625	0	359	262	1023	0	-29	225	5.07
HP	1055	0	-134	-360	757	0	-15	101	-0.86
J&K	1489	100	17	-68	1076	0	175	-85	-1.94
Chandigarh	197	0	4	-23	99	0	-11	0	0.22
Total	32088	2329	523	4	26505	2409	-236	-328	-3.46

* 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	1750	1883	1817	42.06	1753	41.45	0.61
	Rihand I STPS	1000	925	1003	899	21.68	903	21.08	0.60
	Rihand II STPS	1000	975	1040	819	22.47	936	21.30	1.17
	Rihand III STPS	500	471	515	398	11.27	470	11.20	0.07
	Dadri I STPS	840	807	841	632	17.52	730	18.06	-0.53
	Dadri II STPS	980	969	510	513	11.50	479	14.49	-2.98
	Unchahar I TPS	420	408	426	348	8.89	370	8.42	0.47
	Unchahar II TPS	420	406	441	347	8.72	363	7.80	0.92
	Unchahar III TPS	210	0	0	0	0.00	0	0.00	0.00
	ISTPP (Jhajjar)	1500	995	367	335	7.60	317	7.66	-0.06
	Dadri GPS	830	799	370	404	8.66	361	8.83	-0.17
	Anta GPS	419	397	222	259	5.78	241	5.68	0.11
	Auraiva GPS	663	636	300	155	5.47	228	5.94	-0.47
	Sub Total (A)	10782	9538	7918	6926	171.62	7151	171.89	-0.26
B. NPC	NAPS	440	302	327	341	7.13	297	7.25	-0.12
	RAPS- B	440	419	460	465	10.05	419	10.06	0.00
	RAPS- C	440	430	472	477	10.16	423	10.32	-0.16
	Sub Total (B)	1320	1151	1259	1283	27.34	1139	27.62	-0.29
C. NHPC	Chamera I HPS	540	550	540	0	4.47	186	4.37	0.11
	Chamera II HPS	300	310	308	0	3.01	126	2.70	0.31
	Chamera III HPS	231	0	0	0	0.00	0	0.00	0.00
	Bairasuil HPS	180	182	182	20	2.14	89	1.93	0.20
	Salal-HPS	690	254	359	256	6.04	251	5.76	0.27
	Tanakpur-HPS	94	30	32	30	0.75	31	0.73	0.03
	Uri-HPS	480	476	480	476	11.62	484	11.63	0.00
	Dhauliganga-HPS	280	280	286	0	1.40	58	1.31	0.09
	Dulhasti-HPS	390	387	406	0	3.57	149	3.21	0.35
	Sewa-II HPS	120	119	124	66	2.35	98	2.25	0.10
	Sub Total (C)	3305	2588	2717	848	35.35	1473	33.89	1.46
D.NJPC	Nathpa Jhakri	1500	1605	1348	0	12.17	507	11.40	0.77
	Sub Total (D)	1500	1605	1348	0	12.17	507	11.40	0.77
E. THDC	Tehri HPS	1000	550	563	0	7.65	319	7.50	0.15
	Koteswar HPS	400	400	302	0	3.37	140	3.30	0.07
	Sub Total (E)	1400	950	865	0	11.02	459	10.80	0.22
F. BBMB	Bhakra HPS	1480	596	933	481	14.54	606	14.30	0.24
	Dehar HPS	990	300	660	280	7.58	316	7.21	0.38
	Pong HPS	396	39	180	0	0.90	38	5.01	-4.11
	Sub Total (F)	2866	935	1773	761	23.02	959	26.51	-3.49
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	26	30	0.69	29	0.69	0.00
	KWHEP HPS(IPP)	1000	0	170	0	6.45	269	5.70	0.75
	Malana Stg-II HPS	100	0	50	0	0.47	20	0.42	0.05
	Shree Cement TPS	300	0	265	197	5.48	228	4.88	0.60
	Budhil HPS(IPP)	70	0	0	34	0.37	16	0.36	0.01
	Sub Total (G)	1662	0	511	261	13.46	561	12.05	1.42
H. Total Regional Entities (A-G)	22836	16767	16391	10079	293.98	12249	294.15	-0.18	

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	1030	900	21.32	888
	Guru Nanak Dev TPS(Bhatinda)	440	214	190	4.20	175
	Guru Hargobind Singh TPS(L.mbt)	920	726	742	16.92	705
	Thermal (Total)	2620	1970	1832	42.43	1768
	Total Hydro	1148	353	324	7.95	331
	Total Punjab	3768	2323	2156	50.38	2099
Haryana	Panipat TPS	1367	457	419	10.49	437
	DCRTPP (Yamuna nagar)	600	571	504	12.30	513
	Faridabad GPS (NTPC)	432	166	154	4.06	169
	RGTPP (khedar) (IPP)	1200	0	0	0.00	0
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	1320	588	373	9.89	412
	Thermal (Total)	4944	1782	1450	36.73	1531
	Total Hydro	62	25	21	0.57	24
	Total Haryana	5006	1807	1471	37.31	1554
	Rajasthan	kota TPS	1240	1170	1048	26.79
suratgarh TPS		1500	896	943	19.86	828
Chabra TPS		500	228	182	5.04	210
Dholpur GPS		330	136	137	3.26	136
Ramgarh GPS		111	35	65	0.93	39
RAPS A (NPC)		300	191	186	4.78	199
Barsingsar (NLC)		250	0	104	1.12	47
Giral LTPS		250	64	125	2.10	88
Rajwest LTPS (IPP)		1080	603	567	14.79	616
VSLP LTPS (IPP)		135	0	0	0.00	0
Thermal (Total)		5696	3323	3357	78.68	3278
Total Hydro		550	16	0	0.73	30
Wind power		2191	159	696	13.30	554
Biomass		91	29	29	0.69	29
Solar		201	0	0	1.63	68
Renewable/Others (Total)		2483	188	725	15.62	651
Total Rajasthan		8729	3527	4082	95.02	3959
UP		Anpara TPS	1630	1418	1560	32.30
	Obra TPS	1382	474	558	11.30	471
	Paricha TPS	890	586	960	13.40	558
	Panki TPS	210	80	80	1.80	75
	Harduaganj TPS	665	46	48	0.90	38
	Tanda TPS (NTPC)	440	406	406	9.83	410
	Roza TPS (IPP)	1200	279	275	6.57	274
	Anpara-C (IPP)	1200	504	542	12.65	527
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	406	406	9.83	410
	Thermal (Total)	8067	4199	4835	98.59	4108
	Vishnuparyag HPS (IPP)	400	99	96	2.24	93
	Other Hydro	527	153	152	3.02	126
	Cogeneration	981	800	800	19.20	800
	Total UP	9975	5251	5883	123.05	5034
	Uttarakhand	Total Hydro	1303	461	416	10.48
Total Uttarakhand		1303	461	416	10.48	437
Delhi	Rajghat TPS	135	104	105	2.78	116
	Delhi Gas Turbine	282	158	161	3.86	161
	Pragati Gas Turbine	330	288	264	7.01	292
	Rithala GPS	108	0	0	0.00	0
	Bawana GPS	677	0	0	0.00	0
	Badarpur TPS (NTPC)	705	600	505	12.69	529
	Thermal (Total)	2237	1150	1035	26.34	1098
	Total Delhi	2237	1150	1035	26.34	1098
	HP	Baspa HPS (IPP)	330	65	33	1.36
Malana HPS (IPP)		86	49	0	0.48	20
Other Hydro		589	355	352	8.81	367
Total HP		1005	469	385	10.66	444
J & K	Baglihar HPS (IPP)	450	292	290	7.00	292
	Other Hydro	323	95	130	4.55	189
	Gas/Diesel/Others	183	0	0	0.00	0
	Total J & K	956	387	420	11.55	481
Total State Control Area Generation		32979	15375	15848	364.78	15106
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			2588	1621	51.80	2158
Total Regional Availability(Gross)		55815	34354	27548	710.56	29514

IV. Total Hydro Generation:

Regional Entities Hydro	10364	6949	1639	89.17	3715
State Control Area Hydro	5368	1864	1718	47.19	1873
Total Regional Hydro	15731	8813	3357	136.36	5588

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	50	150	150	0.56	1.30	-0.74
Gwalior-Agra (D/C)	669	680	1210	0	16.74	0.00	16.74
Zerda-Kankroli	58	-234	58	356	0.00	6.43	-6.43
Zerda-Bhinmal	95	-219	123	346	0.00	2.77	-2.77
Malanpur-Auraiya	-101	-48	0	128	0.00	1.55	-1.55
Badod-Kota/Morak	-50	-117	0	150	0.00	2.58	-2.58
Mundra-Mohindergarh(HVDC)	1265	1265	1267	0	30.65	0.00	30.65
Sub Total WR	1836	1377			47.95	14.62	33.33
Pusauli Bypass	100	100	150	0	2.16	0.00	2.16
MZP- GKP (D/C)	258	30	298	0	4.04	0.00	4.04
Patna-Balia(D/C)	308	167	366	0	6.11	0.00	6.11
B'Sharif-Balia (D/C)	81	-6	251	20	1.67	0.00	1.67
Pusauli-Balia	-115	-103	2	125	0.00	1.99	-1.99
Gaya-Fatehpur (765 Kv)	16	-12	155	86	4.73	0.00	4.73
Pusauli-Sahupuri	140	108	146	0	2.54	0.00	2.54
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-36	-40	0	44	0.00	0.79	-0.79
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sub Total ER	752	244			21.25	2.78	18.47
Total IR Exch	2588	1621			69.20	17.40	51.80

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
24.02	0.30	24.32	-4.72	-8.73	-2.33	0.20	-3.13	3.13

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
14.14	40.87	55.01	18.47	33.33	51.80	4.34	-7.54	-3.21

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	0.70	9.29	98.12	89.53	57.67	1.18

<----- 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	17.49	49.41	23.38	50.01	0.23	0.13	50.42	49.93

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	412	2:37	401	18:50	0.0	0.0	0.0	0.0
Gorakhpur	400	427	2:12	410	19:15	0.0	0.0	54.2	0.0
Bareilly	400	424	3:07	399	19:12	0.0	0.0	8.0	0.0
Kanpur	400	421	13:15	398	18:57	0.0	0.0	0.1	0.0
Dadri	400	423	3:04	406	9:49	0.0	0.0	15.0	0.0
Ballabgarh	400	428	3:03	405	19:09	0.0	0.0	34.4	0.0
Bawana	400	425	3:12	402	19:07	0.0	0.0	12.1	0.0
Bassi	400	428	13:14	401	6:10	0.0	0.0	24.5	0.0
Hissar	400	416	3:12	394	19:06	0.0	0.0	0.0	0.0
Moga	400	421	3:06	400	19:06	0.0	0.0	0.4	0.0
Abdullapur	400	422	3:03	411	5:00	0.2	0.2	4.1	0.0
Nalagarh	400	424	23:25	407	9:09	0.0	0.0	13.5	0.0
Kishenpur	400	425	13:10	401	19:06	0.0	0.0	19.4	0.0
Wagoora	400	416	1:36	380	19:31	0.0	4.6	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	780	13:15	736	18:53	0.0	3.0	0.0	0.0
Balia	765	772	13:15	723	18:57	1.1	16.5	0.0	0.0
Moga	765	789	3:12	748	19:11	0.0	0.0	0.0	0.0
Agra	765	785	23:30	743	19:07	0.0	0.0	0.0	0.0
Bhiwani	765	795	3:07	753	19:08	0.0	0.0	0.0	0.0
Unnao	765	769	23:31	724	18:54	1.0	32.5	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	477.97	414.26	474.98	350.94	276.77	461.88
Pong	426.72	384.05	400.02	216.87	402.95	288.96	86.37	61.87
Tehri	829.79	740.04	769.95	208.00	818.65	982.26	68.22	223.00
Koteshwar	612.50	598.50	609.80	4.44	NA	4.44	223.00	223.00
Chamera-I	760.00	748.75	NA	NA	NA	NA	128.16	121.13
Rihand	268.22	252.98	257.53	291.30	NA	NA	NA	NA
RPS	352.80	343.81	NA	NA	NA	NA	NA	NA
Jawahar Sagar	298.70	295.78	297.97	180.30	259.42	NA	NA	NA
RSD	527.91	487.91	506.85	NA	496.37	NA	96.08	142.52

* NA: Not Available

X. System Constraints:

XI. Grid Disturbance / Any Other Significant Event:

XII. Weather Conditions For 08.04.2013 :

1.Normal weather.

XIII. Synchronisation of new generating units :

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 : 08.04.2013

पारी प्रभाती अश्विन्ता / SHIFT CHARGE ENGINEER