

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 13.04.2014
Date of Reporting : 14.04.2014

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
32582	2200	34782	50.16	30623	0	30623	50.05	708.8	25.35

* 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:

UI [OD:(+ve), UD: (-ve)]

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	34.24	4.48		38.72	51.74	51.22	-0.52	89.94	0.00
Haryana	28.75	0.51		29.26	55.62	54.86	-0.76	84.12	0.00
Rajasthan	101.58	0.58	14.35	116.51	41.64	40.28	-1.36	156.78	0.00
Delhi	12.91			12.91	53.73	51.22	-2.51	64.13	0.00
UP	108.50	3.80	12.00	124.29	112.57	105.72	-6.85	230.01	23.65
Uttarakhand		8.89		8.89	19.40	19.11	-0.29	28.00	0.00
HP		11.18		11.18	11.69	12.12	0.43	23.30	0.00
J & K		12.78	0.00	12.78	21.34	16.54	-4.80	29.32	1.70
Chandigarh				0.00	3.33	3.19	-0.14	3.19	0.00
Total	285.98	42.22	26.35	354.54	371.04	354.25	-16.79	708.79	25.35

* Shortage furnished by the respective constituent.\$ Others include UP Co-generation and JK Diesel

II. B. State's Demand Met in MWs:

UI/OA/PX [OD/Import: (+ve), UD/Export: (-ve)]

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	STOA/PX transaction	
Punjab	4076	0	28	225	3959	0	-63	-166	2.08	
Haryana	5044	0	-11	258	3468	0	-21	-228	-2.32	
Rajasthan	6600	0	53	-71	6246	0	-105	37	3.04	
Delhi	3065	0	-140	-231	2324	0	-96	-578	-8.43	
UP	9726	2100	-429	735	11397	0	-280	2051	24.70	
Uttarakhand	1446	0	62	318	1201	0	51	306	8.25	
HP	1042	0	9	-338	847	0	15	-85	-3.78	
J&K	1421	100	-226	-178	1072	0	-285	-205	-4.68	
Chandigarh	162	0	-21	0	110	0	8	0	0.00	
Total	32582	2200	-675	718	30623	0	-776	1133	18.86	

* STOA figures are at sellers boundary & PX figures are at regional boundary.

III. Regional Entities :

UI [OG:(+ve), UG: (-ve)]

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	Net MU
A. NTPC									
Singrauli STPS	2000	1572	1639	1851	36.49	1521	36.31	0.18	
Rihand I STPS	1000	850	885	925	18.41	767	17.96	0.44	
Rihand II STPS	1000	945	1011	1035	21.58	899	21.15	0.44	
Rihand III STPS	1000	589	899	505	13.03	543	13.08	-0.05	
Dadri I STPS	840	813	724	811	15.11	630	15.69	-0.58	
Dadri II STPS	980	473	434	428	8.80	367	9.05	-0.25	
Unchahar I TPS	420	408	429	385	9.08	379	7.84	1.24	
Unchahar II TPS	420	408	438	374	8.83	368	7.17	1.66	
Unchahar III TPS	210	204	214	187	4.35	181	3.56	0.79	
ISTPP (Jhajjhar)	1500	1000	309	356	7.43	310	7.40	0.03	
Dadri GPS	830	813	375	385	8.91	371	9.01	-0.10	
Anta GPS	419	389	221	249	5.74	239	5.67	0.07	
Auraiya GPS	663	651	185	143	3.49	145	3.54	-0.05	
Dadri Solar	5		0	0	0.00	0		0.00	
Unchahar Solar	10		0	0	0.00	0		0.00	
Sub Total (A)	11297	9115	7763	7634	161	6719	157	4	
B. NPC									
NAPS	440	291	332	334	7.04	293	6.00	1.04	
RAPS- B	440	409	453	456	9.83	410	9.82	0.01	
RAPS- C	440	430	458	466	9.93	414	10.32	-0.39	
Sub Total (B)	1320	1130	1243	1256	26.80	1117	26.14	0.66	
C. NHPC									
Chamera I HPS	540	540	540	0	7.59	316	7.60	-0.01	
Chamera II HPS	300	296	276	99	3.37	141	3.35	0.02	
Chamera III HPS	231	231	154	79	1.86	78	1.85	0.01	
Bairasui HPS	180	122	122	122	3.10	129	2.93	0.18	
Salal-HPS	690	439	442	452	10.64	443	10.54	0.10	
Tanakpur-HPS	94	21	22	25	0.52	22	0.52	0.00	
Uri-HPS	480	475	472	476	11.52	480	11.40	0.12	
Uri-II HPS	240	180	181	193	4.48	187	4.32	0.16	
Dhauliganga-HPS	280	0	0	0	0.00	0	0.00	0.00	
Dulhasti-HPS	390	387	392	0	4.04	168	4.00	0.04	
Sewa-II HPS	120	122	128	130	3.08	128	2.93	0.15	
Parbati 3	390	129	129	0	0.95	39	0.90	0.04	
Sub Total ©	3935	2941	2858	1576	51	2131	50	1	
D. SJVNL									
NJPC	1500	1605	708	0	8.97	374	8.89	0.08	
Rampur HEP	206		0	0	0.00	0		0.00	
Sub Total (D)	1706	1605	708	0	8.97	374	8.89	0.08	
E. THDC									
Tehri HPS	1000	540	540	0	8.03	335	8.00	0.03	
Koteshwar HPS	400	142	400	91	3.48	145	3.40	0.08	
Sub Total (E)	1400	682	940	91	11.51	480	11.40	0.11	
F. BBMB									
Bhakra HPS	1514	377	738	385	9.46	394	9.04	0.42	
Dehar HPS	990	303	660	290	7.66	319	7.28	0.38	
Pong HPS	396	18	182	0	0.47	20	0.44	0.04	
Sub Total (F)	2900	698	1580	675	17.59	733	16.76	0.83	
G. IPP(s)/JV(s)									
ADHPL HPS(IPP)	192	0	106	0	0.67	28	0.65	0.01	
KWHEP HPS(IPP)	1000	0	500	153	4.28	179	4.32	-0.03	
Malana Stg-II HPS	100	0	0	0	0.32	13	0.31	0.02	
Shree Cement TPS	300	0	265	132	4.26	178	4.34	-0.08	
Budhil HPS(IPP)	70	0	35	0	0.04	2	0.58	-0.55	
Sub Total (G)	1662	0	906	285	9.57	399	10.20	-0.63	
H. Total Regional Entities (A-G)	24221	16171	15998	11517	286.84	11952	281.15	5.69	

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	660	660	15.21	634
	Guru Nanak Dev TPS(Bhatinda)	440	120	120	2.56	107
	Guru Hargobind Singh TPS(L.mbt)	920	306	306	7.32	305
	Goindwal(GVK)		0	0	0.00	0
	Rajpura	700	320	531	9.15	381
	Talwandi Saboo	660	0	0	0.00	0
	Thermal (Total)	3980	1406	1617	34.24	1427
	Total Hydro	1148	234	255	4.48	187
Total Punjab	5128	1640	1872	38.72	1613	
Haryana	Panipat TPS	1367	223	209	5.14	214
	DCRTPP (Yamuna nagar)	600	235	287	5.86	244
	Faridabad GPS (NTPC)	432	382	280	7.60	317
	RGTPP (khedar) (IPP)	1200	0	0	0.00	0
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	1320	606	372	10.15	423
	Thermal (Total)	4944	1446	1148	28.75	1198
	Total Hydro	62	23	21	0.51	21
	Total Haryana	5006	1469	1169	29.26	1219
	Rajasthan	kota TPS	1240	1132	972	23.86
suratgarh TPS		1500	1017	1109	24.80	1033
Chabra TPS		750	372	405	9.20	383
Dholpur GPS		330	136	136	3.35	140
Ramgarh GPS		221	52	58	1.47	61
RAPS A (NPC)		300	175	175	4.11	171
Barsingsar (NLC)		250	176	185	4.11	171
Giral LTPS		250	0	48	0.64	27
Rajwest LTPS (IPP)		1080	754	640	17.64	735
VSLP LTPS (IPP)		135	0	0	0.00	0
Kalisindh Thermal		600	0	0	0.00	0
Kawai(Adani)		1320	487	549	12.40	517
Thermal (Total)		7976	4301	4277	101.58	4233
Total Hydro		550	22	20	0.58	24
Wind power		2191	301	834	13.26	552
Biomass		91	24	24	0.59	24
Solar		201	0	0	0.51	21
Renewable/Others (Total)		2483	325	858	14.35	598
Total Rajasthan	11009	4648	5155	116.51	4854	
UP	Anpara TPS	1630	1047	1026	22.50	938
	Obra TPS	1288	385	421	8.70	363
	Paricha TPS	1140	607	631	12.50	521
	Panki TPS	210	0	0	0.00	0
	Harduaganj TPS	665	367	366	7.80	325
	Tanda TPS (NTPC)	440	388	385	8.41	351
	Roza TPS (IPP)	1200	756	1080	19.81	825
	Anpara-C (IPP)	1200	1032	1053	22.59	941
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	280	280	6.19	258
	Thermal (Total)	8223	4862	5242	108.50	4521
	Vishnuparyag HPS (IPP)	400	83	84	2.03	84
	Other Hydro	527	48	138	1.77	74
	Cogeneration	981	500	500	12.00	500
	Total UP	10131	5493	5964	124.29	5094
Uttarakhand	Total Hydro	1303	435	348	8.89	370
	Total Uttarakhand	1303	435	348	8.89	370
Delhi	Rajghat TPS	135	0	0	0.00	0
	Delhi Gas Turbine	282	81	80	1.88	78
	Pragati Gas Turbine	330	148	146	3.54	148
	Rithala GPS	95	0	0	0.00	0
	Bawana GPS	1370	0	0	0.00	0
	Badarpur TPS (NTPC)	705	295	292	7.48	312
	Thermal (Total)	2917	524	518	12.91	538
Total Delhi	2917	524	518	12.91	538	
HP	Baspa HPS (IPP)	300	37	0	1.08	45
	Malana HPS (IPP)	86	64	0	0.42	17
	Other Hydro	728	389	337	9.69	404
	Total HP	1114	490	337	11.18	466
J & K	Baglihar HPS (IPP)	450	440	436	10.49	437
	Other Hydro/IPP	436	73	132	2.30	96
	Gas/Diesel/Others	209	0	0	0.00	0
	Total J & K	1094	513	568	12.78	533
Total State Control Area Generation		37702	15212	15931	354.54	14688
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			3634	5182	90.68	3778
Total Regional Availability(Gross)		61923	34844	32630	732.07	30418

rsd 600.00
shanan 110.00
ubdc 93.00
mukera 205.00
anandpur sahib 135.00

10 magpie
7.5 pnr
15 cpp

864.00
506.00

IV. Total Hydro Generation:

Regional Entities Hydro	11233	6692	2495	94.49	3937
State Control Area Hydro	5589	1765	1687	42.22	1675
Total Regional Hydro	16823	8457	4182	136.71	5612

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	300	500	500	400	6.60	2.23	4.37
Gwalior-Agra (D/C)	1457	1984	1994	0	36.44	0.00	36.44
Zerda-Kankroli	-192	-248	0	387	0.00	6.66	-6.66
Zerda-Bhinmal	-154	-219	0	365	0.00	5.49	-5.49
Malanpur-Auraiya	-49	-6	0	63	0.00	0.81	-0.81
Badod-Kota/Morak	-27	-121	0	146	0.00	2.71	-2.71
Mundra-Mohindergarh(HVDC)	2002	1998	2006	0	48.33	0.00	48.33
Sub Total WR	3337	3888			91.37	17.89	73.48
Pusaui Bypass	300	300	300	0	7.29	0.00	7.29
MZP- GKP (D/C)	12	229	292	81	2.51	0.00	2.51
Patna-Balia(D/C)	184	536	548	0	7.18	0.00	7.18
B'Sharif-Balia (D/C)	36	426	456	0	3.97	0.00	3.97
Pusaui-Balia	-116	23	23	121	0.00	1.51	-1.51
Gaya-Fatehpur (765 Kv)	-157	-198	0	215	0.00	3.35	-3.35
Pusaui-Sahupuri	160	202	204	0	4.26	0.00	4.26
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	0	0	0	0	0.00	0.00	0.00
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sasaram - Fatehpur(765 KV)	-122	-224		234	0.00	3.15	-3.15
Sub Total ER	297	1294			25.22	8.01	17.21
Total IR Exch	3634	5182			116.58	25.90	90.68

V(B). Inter Regional Schedule & Actual Exchanges [Import (+ve)/Export (-ve)] [Corridor wise]

ISGS/LT Schedule (MU)			Bilateral Schedule (MU)		Power Exchange Shdl (MU)		Wheeling (MU)	
ER	Bhutan	Total	Through ER	Through WR	Through ER	Through WR	Through ER	Through WR
29.47	0.29	29.76	6.91	3.70	0.28	0.00	0.00	0.00

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
36.95	65.85	102.80	17.21	73.48	90.68	-19.74	7.63	-12.12

VI. Frequency Profile <----- % of Time Frequency ----->

<49.2	<49.7	<49.8	<49.9	<50.0	49.9-50.05	50.05-50.10	>50.10	>50.20	>50.50
0.00	0.22	1.71	15.42	59.14	63.03	12.45	9.14	2.04	0.00

<----- Frequency (Hz) ----->				Average Frequency	Frequency Variation Index	Std. Dev.	Frequency in 15 Min Block	
Maximum		Minimum					MAX (Hz)	MIN
Freq	Time	Freq	Time	Hz				
50.33	18.02	49.64	0.10	49.98	0.08	0.09	50.27	49.84

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	410	09:59	399	00:06	0.0	0.0	0.0	0.0
Gorakhpur	400	442	12:37	415	01:07	0.0	0.0	78.7	41.2
Bareilly	400	428	12:35	391	07:43	0.0	0.0	30.8	0.0
Kanpur	400	424	12:35	404	19:10	0.0	0.0	17.8	0.0
Dadri	400	425	08:05	408	19:33	0.0	0.0	28.9	0.0
Ballabgarh	400	433	07:59	413	19:17	0.0	0.0	84.1	15.8
Bawana	400	430	08:04	410	19:31	0.0	0.0	74.4	0.0
Bassi	400	433	04:32	420	19:18	0.0	0.0	97.4	10.1
Hissar	400	420	08:06	398	19:31	0.0	0.0	0.0	0.0
Moga	400	419	04:01	397	19:31	0.0	0.0	0.0	0.0
Abdullapur	400	430	08:06	409	19:06	0.0	0.0	83.7	0.0
Nalagarh	400	425	04:00	408	19:35	0.0	0.0	46.0	0.0
Kishenpur	400	423	04:00	398	19:41	0.0	0.0	3.4	0.0
Wagoora	400	415	04:00	382	20:19	0.0	12.1	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	784	12:39	738	19:13	0.0	2.9	0.0	0.0
Balia	765	783	12:29	732	20:53	0.0	20.0	0.0	0.0
Moga	765	798	04:03	758	19:31	0.0	0.0	0.0	0.0
Agra	765	808	12:37	774	19:20	0.0	0.0	23.0	0.0
Bhiwani	765	811	08:16	769	19:33	0.0	0.0	31.3	0.0
Unnao	765	778	11:32	731	19:21	0.0	21.7	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	482.04	503.43	478.33	420.92	493.48	284.98
Pong	426.72	384.05	402.12	266.33	400.15	223.85	89.42	30.64
Tehri	829.79	740.04	772.90	238.00	818.65	982.26	77.02	216.00
Koteshwar	612.50	598.50	610.92	4.95	612.40	5.73	196.00	208.00
Chamera-I	760.00	748.75	NA	NA	NA	NA	81.53	107.03
Rihand	268.22	252.98	259.45	274.80	258.99	250.70	NA	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	514.74	144.00	506.85	144.00	224.78	127.17

* NA: Not Available

X. System Constraints:

XI. Grid Disturbance / Any Other Significant Event:

XII. Weather Conditions For 13.04.2014 :

1. Normal Weather 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 :

Dhauliganga (280MW) are out of operation since 16.06.2013.

Civil construction is in progress for rectification of the major damages in Plants/Dam caused due to flood Dhauliganga expected by April, 2014 .

Report for : 13.04.2014

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER