

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 12.04.2014
Date of Reporting : 13.04.2014

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
34906	2317	37223	50.07	29885	692	30577	49.89	757.3	38.26

* 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	43.39	6.40		49.79	52.51	51.37	-1.14	101.16	0.00
Haryana	30.08	0.53		30.61	65.45	64.11	-1.34	94.72	0.20
Rajasthan	99.38	1.31	14.45	115.15	48.44	46.00	-2.44	161.15	0.00
Delhi	12.71			12.71	55.83	54.76	-1.07	67.47	0.50
UP	119.92	4.10	12.00	136.03	110.31	106.68	-3.63	242.70	35.19
Uttarakhand		9.31		9.31	21.19	22.23	1.04	31.54	0.58
HP		11.44		11.44	12.28	12.86	0.58	24.30	0.09
J & K		12.82	0.00	12.82	20.26	18.04	-2.22	30.86	1.70
Chandigarh				0.00	3.33	3.46	0.13	3.46	0.00
Total	305.48	45.91	26.45	377.85	389.60	379.50	-10.10	757.35	38.26

* 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	4742	0	-111	-417	4074	0	-6	-608	-8.77	
Haryana	5343	262	0	310	3654	0	314	-179	-2.19	
Rajasthan	6796	0	-269	-75	6172	0	-76	197	3.56	
Delhi	3363	0	-7	-225	2228	0	-106	-607	-7.90	
UP	10412	1880	-195	754	10508	690	-25	1334	20.76	
Uttarakhand	1487	75	38	323	1123	0	-12	345	8.96	
HP	1087	0	4	-263	778	2	22	-114	-4.07	
J&K	1491	100	-59	-211	1256	0	-32	-230	-5.52	
Chandigarh	185	0	-5	0	93	0	1	0	0.00	
Total	34906	2317	-604	196	29885	692	80	138	4.83	

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

III. Regional Entities :

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

Station/ Constituent	Inst. Capacity	Declared	Peak MW	Off Peak MW	Energy	Average	Schedule	UI
	(Effective) MW	Capacity(MW)	(Gross)	(Gross)	(Net MU)	Sentout(MW)	Net MU	Net MU
A. NTPC								
Singrauli STPS	2000	1735	1856	1870	41.74	1739	41.63	0.11
Rihand I STPS	1000	901	982	936	21.58	899	21.18	0.40
Rihand II STPS	1000	945	1026	1036	22.89	954	22.56	0.33
Rihand III STPS	1000	338	442	457	7.70	321	8.01	-0.30
Dadri I STPS	840	813	744	855	17.15	715	17.53	-0.38
Dadri II STPS	980	473	470	369	9.57	399	9.76	-0.20
Unchahar I TPS	420	408	427	385	9.08	378	9.64	-0.56
Unchahar II TPS	420	408	438	374	8.83	368	9.41	-0.58
Unchahar III TPS	210	204	214	187	4.35	181	4.61	-0.26
ISTPP (Jhajjar)	1500	1000	501	322	7.80	325	7.88	-0.08
Dadri GPS	830	801	363	384	8.70	363	8.92	-0.22
Anta GPS	419	306	256	265	5.93	247	5.69	0.24
Auraiya GPS	663	648	149	155	3.63	151	3.65	-0.02
Dadri Solar	5		0	0	0.00	0		0.00
Unchahar Solar	10		0	0	0.00	0		0.00
Sub Total (A)	11297	8979	7868	7595	169	7040	170	-2
B. NPC								
NAPS	440	295	328	337	6.99	291	6.00	0.99
RAPS- B	440	409	453	453	9.86	411	9.82	0.05
RAPS- C	440	430	461	465	9.94	414	10.32	-0.38
Sub Total (B)	1320	1134	1242	1255	26.80	1117	26.14	0.67
C. NHPC								
Chamera I HPS	540	540	540	0	7.57	315	7.50	0.07
Chamera II HPS	300	300	279	75	3.77	157	3.60	0.17
Chamera III HPS	231	231	153	80	2.34	97	2.20	0.14
Bairasui HPS	180	163	122	122	3.10	129	3.07	0.03
Salal-HPS	690	438	452	453	10.58	441	10.51	0.07
Tanakpur-HPS	94	23	22	26	0.58	24	0.53	0.05
Uri-HPS	480	475	478	476	11.60	483	11.40	0.20
Uri-II HPS	240	180	189	191	4.51	188	4.32	0.19
Dhauliganga-HPS	280	0	0	0	0.00	0	0.00	0.00
Dulhasti-HPS	390	387	404	0	4.14	173	4.00	0.14
Sewa-II HPS	120	122	124	130	3.08	128	2.93	0.15
Parbati 3	390	129	128	128	0.97	41	0.90	0.07
Sub Total ©	3935	2987	2891	1681	52	2177	51	1
D. SJVNL								
NJPC	1500	1605	618	0	9.19	383	8.74	0.45
Rampur HEP	206		0	0	0.00	0		0.00
Sub Total (D)	1706	1605	618	0	9.19	383	8.74	0.45
E. THDC								
Tehri HPS	1000	632	505	0	8.17	340	8.00	0.17
Koteswar HPS	400	138	394	94	3.41	142	3.30	0.11
Sub Total (E)	1400	770	899	94	11.58	483	11.30	0.28
F. BBMB								
Bhakra HPS	1514	440	662	407	11.26	469	10.55	0.71
Dehar HPS	990	366	495	140	8.99	375	8.79	0.21
Pong HPS	396	19	184	0	0.48	20	0.47	0.02
Sub Total (F)	2900	825	1341	547	20.73	864	19.80	0.93
G. IPP(s)/JV(s)								
ADHPL HPS(IPP)	192	0	165	0	0.63	26	0.61	0.02
KWHEP HPS(IPP)	1000	0	645	150	4.45	185	4.32	0.13
Malana Stg-II HPS	100	0	0	0	0.32	13	0.30	0.02
Shree Cement TPS	300	0	131	129	3.14	131	3.13	0.01
Budhil HPS(IPP)	70	0	35	0	0.04	2	0.58	-0.55
Sub Total (G)	1662	0	976	279	8.57	357	8.94	-0.37
H. Total Regional Entities (A-G)	24221	16300	15835	11451	298.08	12420	296.36	1.72

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	840	19.17	799
	Guru Nanak Dev TPS(Bhatinda)	440	120	115	2.55	106
	Guru Hargobind Singh TPS(L.mbt)	920	625	672	13.15	548
	Goindwal(GVK)		0	0	0.00	0
	Rajpura	700	349	285	8.52	355
	Talwandi Saboo	660	0	0	0.00	0
	Thermal (Total)	3980	2144	1912	43.39	1808
	Total Hydro	1148	261	298	6.40	267
Total Punjab	5128	2405	2210	49.79	2075	
Haryana	Panipat TPS	1367	226	211	5.25	219
	DCRTPP (Yamuna nagar)	600	279	253	6.16	257
	Faridabad GPS (NTPC)	432	390	303	7.77	324
	RGTPP (khedar) (IPP)	1200	0	0	0.00	0
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	1320	577	371	10.90	454
	Thermal (Total)	4944	1472	1138	30.08	1253
	Total Hydro	62	22	20	0.53	22
	Total Haryana	5006	1494	1158	30.61	1275
	Rajasthan	kota TPS	1240	956	968	22.17
suratgarh TPS		1500	1091	1113	25.54	1064
Chabra TPS		750	389	427	9.82	409
Dholpur GPS		330	127	85	2.93	122
Ramgarh GPS		221	51	49	2.32	97
RAPS A (NPC)		300	175	175	4.07	170
Barsingsar (NLC)		250	184	192	4.37	182
Giral LTPS		250	48	55	1.30	54
Rajwest LTPS (IPP)		1080	892	623	18.72	780
VSLP LTPS (IPP)		135	0	0	0.00	0
Kalisindh Thermal		600	0	0	0.00	0
Kawai(Adani)		1320	133	502	8.13	339
Thermal (Total)		7976	4046	4189	99.38	4141
Total Hydro		550	20	22	1.31	55
Wind power		2191	514	614	13.43	559
Biomass		91	24	24	0.57	24
Solar		201	0	0	0.46	19
Renewable/Others (Total)		2483	538	638	14.45	602
Total Rajasthan	11009	4604	4849	115.15	4798	
UP	Anpara TPS	1630	879	1389	21.10	879
	Obra TPS	1288	410	422	9.00	375
	Paricha TPS	1140	585	385	9.30	388
	Panki TPS	210	75	85	1.70	71
	Harduaganj TPS	665	370	369	8.00	333
	Tanda TPS (NTPC)	440	387	394	9.55	398
	Roza TPS (IPP)	1200	1116	1125	26.74	1114
	Anpara-C (IPP)	1200	1076	1044	25.22	1051
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	401	401	9.32	388
	Thermal (Total)	8223	5299	5614	119.92	4997
	Vishnuparyag HPS (IPP)	400	78	0	1.32	55
	Other Hydro	527	138	87	2.78	116
	Cogeneration	981	500	500	12.00	500
	Total UP	10131	6015	6201	136.03	5613
Uttarakhand	Total Hydro	1303	489	296	9.31	388
	Total Uttarakhand	1303	489	296	9.31	388
Delhi	Rajghat TPS	135	0	0	0.00	0
	Delhi Gas Turbine	282	77	78	1.75	73
	Pragati Gas Turbine	330	142	147	3.47	145
	Rithala GPS	95	0	0	0.00	0
	Bawana GPS	1370	0	0	0.00	0
	Badarpur TPS (NTPC)	705	365	340	7.49	312
	Thermal (Total)	2917	584	565	12.71	530
Total Delhi	2917	584	565	12.71	530	
HP	Baspa HPS (IPP)	300	32	0	1.13	47
	Malana HPS (IPP)	86	72	0	0.47	20
	Other Hydro	728	418	353	9.84	410
	Total HP	1114	522	353	11.44	477
J & K	Baglihar HPS (IPP)	450	440	436	10.52	438
	Other Hydro/IPP	436	73	132	2.30	96
	Gas/Diesel/Others	209	0	0	0.00	0
	Total J & K	1094	513	568	12.82	534
Total State Control Area Generation		37702	16626	16200	377.85	15689
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			4172	4261	108.79	4533
Total Regional Availability(Gross)		61923	36633	31912	784.72	32642

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	6559	2472	99.15	4131
State Control Area Hydro	5589	1965	1644	45.91	1858
Total Regional Hydro	16823	8524	4116	145.06	5989

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	500	500	500	0	10.96	0.00	10.96
Gwalior-Agra (D/C)	1715	1621	1855	0	40.60	0.00	40.60
Zerda-Kankroli	-127	-317	0	317	0.00	5.27	-5.27
Zerda-Bhinmal	-143	-282	0	291	0.00	4.59	-4.59
Malanpur-Auraiya	-49	-30	0	62	0.00	0.69	-0.69
Badod-Kota/Morak	-43	-111	0	111	0.00	1.86	-1.86
Mundra-Mohindergarh(HVDC)	2002	2002	2017	0	48.34	0.00	48.34
Sub Total WR	3855	3383			99.89	12.41	87.48
Pusauli Bypass	300	300	300	0	7.21	0.00	7.21
MZP- GKP (D/C)	64	126	161	77	1.34	0.00	1.34
Patna-Balia(D/C)	160	386	554	0	8.99	0.00	8.99
B'Sharif-Balia (D/C)	51	236	389	0	5.48	0.00	5.48
Pusauli-Balia	-116	-49	0	124	0.00	1.22	-1.22
Gaya-Fatehpur (765 Kv)	-168	-136	0	204	0.00	2.51	-2.51
Pusauli-Sahupuri	134	126	205	0	3.88	0.00	3.88
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)	-108	-111	10	194	0.00	1.86	-1.86
Sub Total ER	317	878			26.90	5.59	21.31
Total IR Exch	4172	4261			126.79	18.00	108.79

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
34.76	0.29	35.05	6.45	-0.51	-7.92	-0.01	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
33.58	73.25	106.83	21.31	87.48	108.79	-12.27	14.23	1.96

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	5.64	30.90	62.95	86.94	30.39	4.42	2.28	0.03	0.00

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				
50.16	6.35	49.56	12.20	49.86	0.31	0.11	50.18	49.74

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	401	20:44	397	22:16	0.0	0.0	0.0	0.0
Gorakhpur	400	434	08:02	413	01:34	0.0	0.0	71.0	4.7
Bareilly	400	420	06:37	405	14:26	0.0	0.0	0.0	0.0
Kanpur	400	419	07:09	403	18:54	0.0	0.0	0.0	0.0
Dadri	400	422	08:03	402	14:22	0.0	0.0	2.1	0.0
Ballabgarh	400	430	08:04	410	19:25	0.0	0.0	42.8	0.0
Bawana	400	425	08:03	407	18:52	0.0	0.0	28.6	0.0
Bassi	400	433	02:37	416	10:14	0.0	0.0	84.3	4.9
Hissar	400	416	13:02	398	14:22	0.0	0.0	0.0	0.0
Moga	400	417	01:51	395	18:52	0.0	0.0	0.0	0.0
Abdullapur	400	427	03:02	407	18:52	0.0	0.0	33.4	0.0
Nalagarh	400	422	03:03	403	19:25	0.0	0.0	7.1	0.0
Kishenpur	400	421	04:03	396	20:10	0.0	0.0	0.1	0.0
Wagoora	400	416	13:02	380	20:10	0.0	16.8	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	775	08:06	741	18:54	0.0	0.2	0.0	0.0
Balia	765	776	08:03	743	01:34	0.0	0.0	0.0	0.0
Moga	765	794	01:56	754	18:54	0.0	0.0	0.0	0.0
Agra	765	801	08:05	768	14:23	0.0	0.0	0.1	0.0
Bhiwani	765	803	13:02	771	18:53	0.0	0.0	1.9	0.0
Unnao	765	765	07:04	741	01:37	0.0	0.3	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	481.87	503.43	478.06	414.26	480.39	342.58
Pong	426.72	384.05	402.01	266.33	400.08	223.85	86.42	22.77
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 12.04.2014 :

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 : 12.04.2014

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER