

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 21.04.2014
Date of Reporting : 22.04.2014

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
34506	2391	36897	50.08	28837	990	29827	49.99	739.2	36.24

* 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	35.69	5.79		41.48	49.73	50.55	0.82	92.02	0.00
Haryana	35.74	0.45		36.19	59.59	60.99	1.40	97.18	1.09
Rajasthan	98.69	0.00	3.69	102.38	42.03	40.28	-1.75	142.66	0.00
Delhi	15.80			15.80	55.71	54.87	-0.85	70.67	0.26
UP	124.78	4.84	9.10	138.72	103.58	105.75	2.17	244.47	32.69
Uttarakhand		8.99		8.99	21.52	22.61	1.08	31.59	0.50
HP		11.70		11.70	11.47	12.10	0.63	23.81	0.00
J & K		14.23	0.00	14.23	19.89	18.89	-0.99	33.13	1.70
Chandigarh				0.00	3.33	3.70	0.37	3.70	0.00
Total	310.69	46.00	12.79	369.49	366.84	369.73	2.89	739.22	36.24

* 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	4518	0	101	-361	3693	0	56	31	-4.66
Haryana	5027	261	160	307	3726	0	98	262	3.02
Rajasthan	6549	0	-78	-125	5205	0	-30	-168	-0.86
Delhi	3484	0	-118	-214	2280	0	-80	-647	-8.54
UP	10445	1955	44	609	10600	990	288	750	15.38
Uttarakhand	1562	75	73	384	1125	0	72	273	8.83
HP	1091	0	-57	-275	768	0	29	-55	-3.36
J&K	1637	100	89	-227	1339	0	24	-232	-5.53
Chandigarh	193	0	4	0	100	0	-12	0	0.00
Total	34506	2391	218	99	28837	990	445	215	4.28

* 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	1871	1851	41.50	1729	41.32	0.18
Rihand I STPS	1000	840	898	885	19.56	815	19.14	0.42
Rihand II STPS	1000	885	991	935	20.76	865	20.63	0.13
Rihand III STPS	1000	778	822	837	18.41	767	18.17	0.24
Dadri I STPS	840	809	724	635	15.52	647	15.98	-0.46
Dadri II STPS	980	473	498	373	9.88	412	9.91	-0.03
Unchahar I TPS	420	408	402	343	8.46	352	8.87	-0.42
Unchahar II TPS	420	204	215	160	4.01	167	4.12	-0.10
Unchahar III TPS	210	204	199	158	3.90	163	4.07	-0.17
ISTPP (Jhajjhar)	1500	1000	484	327	8.77	365	8.96	-0.19
Dadri GPS	830	807	180	184	4.17	174	4.41	-0.24
Anta GPS	419	396	194	229	5.12	213	5.09	0.03
Auraiya GPS	663	648	149	159	3.52	147	3.62	-0.10
Dadri Solar	5		0	0	0.00	0		0.00
Unchahar Solar	10		0	0	0.03	1		0.03
Sub Total (A)	11297	9185	7627	7076	164	6817	164	-1
B. NPC								
NAPS	440	294	319	332	6.92	288	6.00	0.92
RAPS- B	440	410	402	400	9.16	382	9.84	-0.68
RAPS- C	440	420	462	406	9.98	416	10.08	-0.10
Sub Total (B)	1320	1124	1183	1138	26.06	1086	25.92	0.14
C. NHPC								
Chamera I HPS	540	540	540	0	8.12	338	8.00	0.12
Chamera II HPS	300	300	303	103	3.87	161	3.80	0.07
Chamera III HPS	231	231	224	0	2.13	89	2.00	0.13
Bairasui HPS	180	122	122	122	2.95	123	2.93	0.02
Salal-HPS	690	443	555	502	11.01	459	10.83	0.19
Tanakpur-HPS	94	24	30	24	0.60	25	0.57	0.03
Uri-HPS	480	475	471	474	11.55	481	11.40	0.15
Uri-II HPS	240	180	183	191	4.44	185	4.32	0.12
Dhauliganga-HPS	280	0	0	0	0.00	0	0.00	0.00
Dulhasti-HPS	390	387	403	0	5.29	221	5.20	0.09
Sewa-II HPS	120	122	0	131	3.00	125	2.93	0.07
Parbati 3	390	257	0	0	0.94	39	0.90	0.04
Sub Total ©	3935	3080	2831	1547	54	2245	53	1
D. SJVNL								
NJPC	1500	1605	760	160	9.65	402	9.44	0.21
Rampur HEP	206		0	0	0.00	0		0.00
Sub Total (D)	1706	1605	760	160	9.65	402	9.44	0.21
E. THDC								
Tehri HPS	1000	510	510	0	8.11	338	8.00	0.11
Koteshwar HPS	400	150	299	0	3.64	152	3.60	0.04
Sub Total (E)	1400	660	809	0	11.76	490	11.60	0.16
F. BBMB								
Bhakra HPS	1514	287	280	304	6.93	289	6.89	0.04
Dehar HPS	990	330	495	330	8.51	355	7.91	0.60
Pong HPS	396	25	124	0	0.51	21	0.60	-0.09
Sub Total (F)	2900	642	899	634	15.95	665	15.40	0.55
G. IPP(s)/JV(s)								
ADHPL HPS(IPP)	192	0	83	0	0.50	21	0.49	0.01
KWHEP HPS(IPP)	1000	0	425	150	4.59	191	4.56	0.03
Malana Stg-II HPS	100	0	0	0	0.29	12	0.27	0.02
Shree Cement TPS	300	0	284	284	6.92	288	6.93	0.00
Budhil HPS(IPP)	70	0	0	0	0.00	0	0.77	-0.77
Sub Total (G)	1662	0	792	434	12.31	513	13.02	-0.71
H. Total Regional Entities (A-G)	24221	16296	14901	10989	293.21	12217	292.53	0.68

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	585	480	10.22	426
	Guru Nanak Dev TPS(Bhatinda)	440	120	90	2.03	85
	Guru Hargobind Singh TPS(L.mbt)	920	423	311	7.57	315
	Goindwal(GVK)		0	0	0.00	0
	Rajpura	700	663	655	15.87	661
	Talwandi Saboo	660	0	0	0.00	0
	Thermal (Total)	3980	1791	1536	35.69	1487
	Total Hydro	1148	390	240	5.79	241
Total Punjab	5128	2181	1776	41.48	1728	
Haryana	Panipat TPS	1367	399	213	6.45	269
	DCRTPP (Yamuna nagar)	600	554	513	12.69	529
	Faridabad GPS (NTPC)	432	142	188	4.14	173
	RGTPP (khedar) (IPP)	1200	590	501	12.46	519
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	1320	0	0	0.00	0
	Thermal (Total)	4944	1685	1415	35.74	1489
	Total Hydro	62	19	19	0.45	19
	Total Haryana	5006	1704	1434	36.19	1508
	Rajasthan	kota TPS	1240	1145	1105	26.03
suratgarh TPS		1500	1072	1032	24.95	1039
Chabra TPS		750	363	366	9.38	391
Dholpur GPS		330	129	134	3.27	136
Ramgarh GPS		221	74	70	1.42	59
RAPS A (NPC)		300	175	175	4.11	171
Barsingsar (NLC)		250	83	85	1.80	75
Giral LTPS		250	44	44	0.78	33
Rajwest LTPS (IPP)		1080	837	552	16.84	702
VSLP LTPS (IPP)		135	0	0	0.00	0
Kalisindh Thermal		600	0	0	0.00	0
Kawai(Adani)		1320	487	0	10.11	421
Thermal (Total)		7976	4409	3563	98.69	4112
Total Hydro		550	0	0	0.00	0
Wind power		2191	226	165	2.56	107
Biomass		91	34	34	0.82	34
Solar		201	0	0	0.32	13
Renewable/Others (Total)	2483	260	199	3.69	154	
Total Rajasthan	11009	4669	3762	102.38	4266	
UP	Anpara TPS	1630	1244	1263	30.60	1275
	Obra TPS	1288	419	394	9.40	392
	Paricha TPS	1140	597	613	14.20	592
	Panki TPS	210	72	63	1.70	71
	Harduaganj TPS	665	180	358	7.30	304
	Tanda TPS (NTPC)	440	187	296	5.22	217
	Roza TPS (IPP)	1200	1116	1116	24.87	1036
	Anpara-C (IPP)	1200	888	1080	23.45	977
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	401	401	8.05	335
	Thermal (Total)	8223	5104	5584	124.78	5199
	Vishnuparyag HPS (IPP)	400	88	84	2.03	85
	Other Hydro	527	152	152	2.81	117
	Cogeneration	981	380	380	9.10	379
	Total UP	10131	5724	6200	138.72	5695
Uttarakhand	Total Hydro	1303	483	344	8.99	375
	Total Uttarakhand	1303	483	344	8.99	375
Delhi	Rajghat TPS	135	107	109	2.52	105
	Delhi Gas Turbine	282	115	119	2.72	113
	Pragati Gas Turbine	330	95	99	2.34	97
	Rithala GPS	95	0	0	0.00	0
	Bawana GPS	1370	0	0	0.00	0
	Badarpur TPS (NTPC)	705	470	350	8.23	343
	Thermal (Total)	2917	787	677	15.80	658
Total Delhi	2917	787	677	15.80	658	
HP	Baspa HPS (IPP)	300	49	0	1.25	52
	Malana HPS (IPP)	86	62	14	0.44	18
	Other Hydro	728	411	398	10.02	417
	Total HP	1114	522	412	11.70	488
J & K	Baglihar HPS (IPP)	450	440	438	10.53	439
	Other Hydro/IPP	436	132	150	3.70	154
	Gas/Diesel/Others	209	0	0	0.00	0
	Total J & K	1094	572	588	14.23	593
Total State Control Area Generation		37702	16642	15193	369.49	15311
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			4588	3512	93.96	3915
Total Regional Availability(Gross)		61923	36131	29694	756.66	31443

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	5807	2491	96.63	4026
State Control Area Hydro	5589	2138	1755	46.00	1832
Total Regional Hydro	16823	7945	4246	142.63	5858

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	300	500	0	9.03	0.00	9.03
Gwalior-Agra (D/C)	1710	1532	1837	0	37.97	0.00	37.97
Zerda-Kankroli	-193	-278	0	367	0.00	6.84	-6.84
Zerda-Bhinmal	-153	-228	0	302	0.00	5.32	-5.32
Malanpur-Auraiya	-37	-30	0	55	0.00	0.51	-0.51
Badod-Kota/Morak	-103	-158	0	241	0.00	4.17	-4.17
Mundra-Mohindergarh(HVDC)	2002	1998	2005	0	48.32	0.00	48.32
Sub Total WR	3726	3136			95.32	16.83	78.49
Pusaui Bypass	300	100	300	0	3.28	0.00	3.28
MZP- GKP (D/C)	110	78	194	0	2.25	0.00	2.25
Patna-Balia(D/C)	286	245	354	0	6.29	0.00	6.29
B Sharif-Balia (D/C)	158	84	182	0	2.07	0.00	2.07
Pusaui-Balia	-121	-88	0	139	0.00	2.11	-2.11
Gaya-Fatehpur (765 Kv)	-9	-139	55	139	0.00	1.20	-1.20
Pusaui-Sahupuri	145	185	195	0	4.59	0.00	4.59
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-28	-30	0	32	0.00	0.64	-0.64
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sasaram - Fatehpur(765 KV)	21	-59	159	59	0.95	0.00	0.95
Sub Total ER	862	376			19.42	3.95	15.47
Total IR Exch	4588	3512			114.74	20.78	93.96

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
32.72	0.12	32.84	3.48	-0.26	-9.97	0.00	0.00	0.00

Total IR Schedule (MU)			Total IR Actual (MU)			Net IR UI (MU)		
Through ER	Through WR Incids Mndra	Total	Through ER	Through WR	Total	Through ER	Through WR	Total
26.36	61.56	87.92	15.47	78.49	93.96	-10.88	16.93	6.04

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	0.41	7.25	36.52	75.74	53.19	7.34	2.56	0.02	0.00

Frequency (Hz)				Average Frequency	Frequency Variation	Std. Dev.	Frequency in 15 Min Block	
Maximum		Minimum					MAX	MIN
Freq	Time	Freq	Time	Hz	Index	(Hz)	(Hz)	
50.19	7.04	49.64	15.23	49.93	0.13	50.17	49.80	

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	12:06	399	09:39	23.3	23.3	0.0	0.0
Gorakhpur	400	430	13:01	406	19:35	0.0	0.0	42.3	0.0
Bareilly	400	417	03:04	402	18:40	0.0	0.0	0.0	0.0
Kanpur	400	416	13:01	400	19:13	0.0	0.0	0.0	0.0
Dadri	400	422	03:00	405	18:41	0.0	0.0	6.9	0.0
Ballabgarh	400	429	03:01	411	19:12	0.0	0.0	38.0	0.0
Bawana	400	427	03:00	408	19:12	0.0	0.0	25.0	0.0
Bassi	400	429	03:32	410	06:48	0.0	0.0	61.6	0.0
Hissar	400	416	01:37	401	05:37	0.0	0.0	0.0	0.0
Moga	400	419	03:01	399	19:12	0.0	0.0	0.0	0.0
Abdullapur	400	427	03:00	407	18:41	0.0	0.0	26.1	0.0
Nalagarh	400	427	03:14	406	09:35	0.0	0.0	17.8	0.0
Kishenpur	400	421	02:37	400	22:06	0.0	0.0	1.2	0.0
Wagoora	400	410	03:40	379	19:40	3.3	17.5	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	767	13:01	736	19:13	0.0	2.5	0.0	0.0
Balia	765	769	13:00	731	19:13	0.0	15.6	0.0	0.0
Moga	765	798	03:59	759	19:13	0.0	0.0	0.0	0.0
Agra	765	796	03:03	750	20:03	0.0	0.0	0.0	0.0
Bhiwani	765	806	03:03	776	05:52	0.0	0.0	14.0	0.0
Unnao	765	758	13:02	733	19:13	0.0	17.1	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 (m ³ /s)	Usage (m ³ /s)
Bhakra	513.59	445.62	482.78	527.87	479.35	447.73	339.49	222.15
Pong	426.72	384.05	402.38	273.51	400.31	223.85	97.86	34.66
Tehri	829.79	740.04	764.50	188.00	818.65	982.26	82.00	244.00
Koteshwar	612.50	598.50	610.94	5.05	601.50	0.98	244.00	242.00
Chamera-I	760.00	748.75	NA	NA	NA	NA	205.88	219.08
Rihand	268.22	252.98	259.45	274.80	257.13	163.30	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	516.56	144.00	506.38	144.00	260.71	141.05

* NA: Not Available

X. System Constraints:

XI. Grid Disturbance / Any Other Significant Event:

XII. Weather Conditions For 21.04.2014 :
Normal

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 : 21.04.2014

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER