

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 16.04.2014
Date of Reporting : 17.04.2014

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
34864	2783	37647	50.01	32007	1290	33297	50.00	762.2	32.62

* 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	35.07	6.26		41.33	58.90	58.60	-0.29	99.94	0.00
Haryana	32.41	0.47		32.88	64.04	62.24	-1.80	95.11	0.19
Rajasthan	109.26	0.36	5.08	114.70	43.58	40.42	-3.16	155.12	0.00
Delhi	14.78			14.78	58.84	57.95	-0.88	72.73	0.18
UP	128.61	4.02	10.80	143.44	107.85	104.79	-3.05	248.23	29.21
Uttarakhand		8.96		8.96	20.60	22.13	1.53	31.09	1.34
HP		11.71		11.71	12.32	12.79	0.47	24.50	0.00
J & K		12.81	0.00	12.81	20.33	18.86	-1.47	31.67	1.70
Chandigarh				0.00	3.33	3.80	0.47	3.80	0.00
Total	320.13	44.58	15.88	380.59	389.78	381.58	-8.19	762.18	32.62

* 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	4651	0	-37	-157	4214	0	-1	-67	-1.45	
Haryana	5252	18	22	325	4066	0	-232	-30	0.25	
Rajasthan	6715	0	-189	-198	6461	0	-115	280	3.68	
Delhi	3532	1	4	-143	2488	0	-43	-397	-5.62	
UP	10530	2460	-43	727	11530	1220	431	1453	20.36	
Uttarakhand	1462	205	103	317	1210	70	137	305	8.75	
HP	1138	0	-26	-298	747	0	34	-58	-3.52	
J&K	1390	100	-98	-230	1183	0	-25	-222	-5.40	
Chandigarh	195	0	5	0	108	0	23	0	0.00	
Total	34864	2783	-259	342	32007	1290	210	1263	17.05	

* 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	1622	1629	1848	38.84	1618	38.27		0.57
Rihand I STPS	1000	833	928	973	19.75	823	19.19		0.56
Rihand II STPS	1000	883	988	1041	21.32	888	20.63		0.69
Rihand III STPS	1000	782	800	952	19.06	794	18.23		0.83
Dadri I STPS	840	813	750	638	15.10	629	15.51		-0.42
Dadri II STPS	980	473	435	350	9.10	379	9.58		-0.48
Unchahar I TPS	420	408	398	429	8.33	347	8.88		-0.55
Unchahar II TPS	420	408	399	359	8.04	335	8.61		-0.57
Unchahar III TPS	210	204	202	188	3.93	164	4.16		-0.23
ISTPP (Jhajjhar)	1500	1000	505	320	7.95	331	8.13		-0.18
Dadri GPS	830	807	0	387	6.57	274	6.68		-0.11
Anta GPS	419	390	245	262	5.85	244	5.75		0.10
Auraiya GPS	663	649	149	154	3.48	145	3.50		-0.03
Dadri Solar	5		0	0	0.00	0			0.00
Unchahar Solar	10		0	0	0.00	0			0.00
Sub Total (A)	11297	9273	7428	7901	167	6971	167		0
B. NPC									
NAPS	440	293	328	324	6.96	290	6.00		0.96
RAPS- B	440	411	453	456	9.79	408	9.86		-0.08
RAPS- C	440	420	454	458	10.02	418	10.08		-0.06
Sub Total (B)	1320	1124	1235	1238	26.77	1115	25.94		0.82
C. NHPC									
Chamera I HPS	540	540	540	0	7.12	297	7.10		0.02
Chamera II HPS	300	300	301	0	3.44	143	3.30		0.14
Chamera III HPS	231	231	192	193	1.92	80	1.90		0.02
Bairasui HPS	180	122	122	122	2.97	124	2.93		0.04
Salal-HPS	690	355	373	295	8.75	365	8.46		0.30
Tanakpur-HPS	94	20	20	21	0.50	21	0.48		0.02
Uri-HPS	480	475	479	476	11.64	485	11.40		0.24
Uri-II HPS	240	180	191	193	4.53	189	4.32		0.21
Dhauliganga-HPS	280	0	0	0	0.00	0	0.00		0.00
Dulhasti-HPS	390	357	400	0	5.26	219	5.00		0.26
Sewa-II HPS	120	122	130	130	3.08	128	2.93		0.15
Parbati 3	390	32	129	0	0.74	31	0.64		0.10
Sub Total ©	3935	2734	2877	1430	50	2081	48		1
D. SJVNL									
NJPC	1500	1605	1007	0	10.31	430	10.02		0.29
Rampur HEP	206		303	89	3.58	149			3.58
Sub Total (D)	1706	1605	1310	89	13.89	579	10.02		3.87
E. THDC									
Tehri HPS	1000	540	540	0	8.08	337	8.00		0.08
Koteshwar HPS	400	146	303	89	3.58	149	3.50		0.08
Sub Total (E)	1400	686	843	89	11.66	486	11.50		0.16
F. BBMB									
Bhakra HPS	1514	314	304	324	7.48	312	7.54		-0.06
Dehar HPS	990	306	495	140	7.68	320	7.35		0.33
Pong HPS	396	16	122	0	0.38	16	0.38		0.01
Sub Total (F)	2900	636	921	464	15.54	648	15.26		0.28
G. IPP(s)/JV(s)									
ADHPL HPS(IPP)	192	0	46	0	0.50	21	0.49		0.01
KWHEP HPS(IPP)	1000	0	525	150	5.15	215	4.56		0.60
Malana Stg-II HPS	100	0	0	0	0.33	14	0.29		0.03
Shree Cement TPS	300	0	260	248	5.98	249	6.08		-0.10
Budhil HPS(IPP)	70	0	35	0	0.04	2	0.58		-0.55
Sub Total (G)	1662	0	866	398	12.00	500	12.01		-0.01
H. Total Regional Entities (A-G)	24221	16057	15480	11609	297.11	12380	290.31		6.79

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	630	630	11.82	492
	Guru Nanak Dev TPS(Bhatinda)	440	120	120	2.18	91
	Guru Hargobind Singh TPS(L.mbt)	920	421	423	8.78	366
	Goindwal(GVK)		0	0	0.00	0
	Rajpura	700	652	655	12.30	512
	Talwandi Saboo	660	0	0	0.00	0
	Thermal (Total)	3980	1823	1828	35.07	1461
	Total Hydro	1148	330	330	6.26	261
Total Punjab	5128	2153	2158	41.33	1722	
Haryana	Panipat TPS	1367	205	207	5.10	213
	DCRTPP (Yamuna nagar)	600	582	495	12.30	513
	Faridabad GPS (NTPC)	432	169	239	4.34	181
	RGTPP (khedar) (IPP)	1200	0	0	0.00	0
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	1320	595	370	10.66	444
	Thermal (Total)	4944	1551	1311	32.41	1350
	Total Hydro	62	18	18	0.47	20
	Total Haryana	5006	1569	1329	32.88	1370
	Rajasthan	kota TPS	1240	1113	1099	25.73
suratgarh TPS		1500	1072	1008	24.86	1036
Chabra TPS		750	388	430	9.87	411
Dholpur GPS		330	134	134	3.30	137
Ramgarh GPS		221	89	95	2.40	100
RAPS A (NPC)		300	175	175	4.11	171
Barsingsar (NLC)		250	167	166	3.75	156
Giral LTPS		250	0	0	0.00	0
Rajwest LTPS (IPP)		1080	756	780	17.82	743
VSLP LTPS (IPP)		135	0	0	0.00	0
Kalisindh Thermal		600	0	0	0.00	0
Kawai(Adani)		1320	1072	574	17.42	726
Thermal (Total)		7976	4966	4461	109.26	4552
Total Hydro		550	0	20	0.36	15
Wind power		2191	118	167	4.05	169
Biomass		91	32	32	0.78	32
Solar		201	0	0	0.26	11
Renewable/Others (Total)		2483	150	199	5.08	212
Total Rajasthan	11009	5116	4680	114.70	4779	
UP	Anpara TPS	1630	1391	1371	32.50	1354
	Obra TPS	1288	258	368	7.40	308
	Paricha TPS	1140	559	758	16.90	704
	Panki TPS	210	77	73	1.80	75
	Harduaganj TPS	665	357	371	8.30	346
	Tanda TPS (NTPC)	440	390	387	9.53	397
	Roza TPS (IPP)	1200	801	1125	22.55	940
	Anpara-C (IPP)	1200	1053	1054	22.55	940
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	306	361	7.08	295
	Thermal (Total)	8223	5192	5868	128.61	5359
	Vishnuparyag HPS (IPP)	400	88	83	2.03	85
	Other Hydro	527	64	115	1.99	83
	Cogeneration	981	450	450	10.80	450
	Total UP	10131	5794	6516	143.44	5892
Uttarakhand	Total Hydro	1303	444	299	8.96	373
	Total Uttarakhand	1303	444	299	8.96	373
Delhi	Rajghat TPS	135	106	0	1.75	73
	Delhi Gas Turbine	282	118	119	3.09	129
	Pragati Gas Turbine	330	96	100	2.36	98
	Rithala GPS	95	0	0	0.00	0
	Bawana GPS	1370	0	0	0.00	0
	Badarpur TPS (NTPC)	705	365	345	7.58	316
	Thermal (Total)	2917	685	564	14.78	616
	Total Delhi	2917	685	564	14.78	616
HP	Baspa HPS (IPP)	300	0	55	1.48	62
	Malana HPS (IPP)	86	69	0	0.42	17
	Other Hydro	728	446	397	9.81	409
	Total HP	1114	515	452	11.71	488
J & K	Baglihar HPS (IPP)	450	381	380	9.11	380
	Other Hydro/IPP	436	132	150	3.70	154
	Gas/Diesel/Others	209	0	0	0.00	0
	Total J & K	1094	513	530	12.81	534
Total State Control Area Generation		37702	16789	16528	380.59	15773
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			4693	4905	103.55	4314
Total Regional Availability(Gross)		61923	36962	33042	781.25	32467

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	6522	2222	97.01	4042
State Control Area Hydro	5589	1884	1764	44.58	1773
Total Regional Hydro	16823	8406	3986	141.59	5815

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	9.17	0.00	9.17
Gwalior-Agra (D/C)	1859	1668	1875	0	39.10	0.00	39.10
Zerda-Kankroli	-201	-258	0	320	0.00	5.67	-5.67
Zerda-Bhinmal	-149	-190	0	253	0.00	3.92	-3.92
Malanpur-Auraiya	-26	-42	0	63	0.00	0.57	-0.57
Badod-Kota/Morak	-77	-87	0	130	0.00	2.50	-2.50
Mundra-Mohindergarh(HVDC)	1999	1997	2011	0	46.76	0.00	46.76
Sub Total WR	3905	3588			95.03	12.66	82.37
Pusaui Bypass	-572	-454	0	639	0.00	11.98	-11.98
MZP- GKP (D/C)	180	400	428	0	6.29	0.00	6.29
Patna-Balia(D/C)	418	633	707	0	11.08	0.00	11.08
B'Sharif-Balia (D/C)	362	275	450	0	6.62	0.00	6.62
Pusaui-Balia	114	64	114	0	1.13	0.00	1.13
Gaya-Fatehpur (765 Kv)	-44	23	72	70	0.00	0.05	-0.05
Pusaui-Sahupuri	169	193	200	0	4.02	0.00	4.02
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)	189	213	271	0	4.70	0.00	4.70
Sub Total ER	788	1317			33.84	12.67	21.17
Total IR Exch	4693	4905			128.87	25.33	103.55

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
33.79	0.20	33.99	7.51	-1.26	1.60	-0.53	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
43.10	70.22	113.32	21.17	82.37	103.55	-21.93	12.15	-9.78

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	1.97	15.78	43.68	74.51	43.95	8.09	8.09	0.02	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				
50.20	8.03	49.58	9.13	49.92	0.19	0.11	50.18	49.79

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	407	12:22	399	00:00	0.0	0.0	0.0	0.0
Gorakhpur	400	437	17:36	410	01:35	0.0	0.0	60.7	13.3
Bareilly	400	422	08:04	401	19:22	0.0	0.0	0.2	0.0
Kanpur	400	420	08:02	403	19:21	0.0	0.0	0.0	0.0
Dadri	400	424	08:04	402	14:53	0.0	0.0	4.5	0.0
Ballabgarh	400	433	07:34	408	14:17	0.0	0.0	43.1	3.4
Bawana	400	426	07:08	405	14:37	0.0	0.0	12.8	0.0
Bassi	400	436	08:03	413	14:35	0.0	0.0	67.8	7.5
Hissar	400	420	08:01	394	19:09	0.0	0.0	0.0	0.0
Moga	400	419	03:01	396	19:11	0.0	0.0	0.0	0.0
Abdullapur	400	427	02:59	402	19:10	0.0	0.0	21.0	0.0
Nalagarh	400	424	02:58	401	14:38	0.0	0.0	8.6	0.0
Kishenpur	400	421	03:00	398	19:13	0.0	0.0	0.1	0.0
Wagoora	400	407	02:58	383	19:15	0.0	12.4	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	13:04	743	09:14	0.0	0.0	0.0	0.0
Balia	765	776	17:47	719	23:08	0.1	15.7	0.0	0.0
Moga	765	797	03:01	754	19:14	0.0	0.0	0.0	0.0
Agra	765	805	08:03	0	13:27	23.6	23.6	1.9	0.0
Bhiwani	765	810	08:04	761	14:36	0.0	0.0	5.8	0.0
Unnao	765	765	08:04	736	01:23	0.0	14.7	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 (m ³ /s)	Usage (m ³ /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 16.04.2014 :

1. Early Morning rains in Punjab , Haryana & NCR region.

XIII. Synchronisation of new generating units :
0.00

XIV. Synchronisation of new 220 / 400 / 765 KV lines and energising of bus //substation :

1. 80MVAR Bus reactor taken into service at 400KV Lucknow (UP) S/S on 16.04.2014, by replacement

of damaged 50MVAR bus reactor.

XV. Tripping of lines in pooling stations :

XVI. Complete generation loss in a generating station :

Dhauiganga (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 Dhauiganga expected by April, 2014 .

Report for : 16.04.2014

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER