

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 15.04.2014
Date of Reporting : 16.04.2014

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
35631	2247	37878	50.00	31036	313	31349	50.02	785.7	33.69

* 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	36.11	7.06		43.17	55.54	55.38	-0.17	98.55	0.00
Haryana	31.08	0.46		31.54	68.80	67.91	-0.89	99.45	0.59
Rajasthan	110.76	0.78	7.64	119.18	44.18	44.32	0.13	163.50	0.00
Delhi	13.10			13.10	59.66	60.11	0.45	73.21	0.00
UP	129.21	3.51	12.00	144.72	114.76	112.99	-1.77	257.70	30.87
Uttarakhand		8.92		8.92	22.06	23.87	1.81	32.79	0.44
HP		10.62		10.62	11.22	13.44	2.23	24.06	0.10
J & K		12.81	0.00	12.81	21.31	19.87	-1.44	32.68	1.70
Chandigarh				0.00	3.33	3.74	0.41	3.74	0.00
Total	320.26	44.16	19.64	384.05	400.86	401.64	0.78	785.70	33.69

* 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	4633	0	29	-104	4002	0	33	-166	-1.89
Haryana	5475	162	157	318	3900	73	-94	298	0.42
Rajasthan	6914	0	94	-103	6194	0	101	265	3.53
Delhi	3515	0	-14	-150	2334	0	-209	-547	-7.75
UP	10736	1880	-406	781	11263	240	36	913	19.49
Uttarakhand	1584	105	96	318	1190	0	97	305	8.74
HP	1003	0	54	-311	819	0	136	-40	-3.45
J&K	1583	100	-10	-180	1230	0	-36	-172	-4.19
Chandigarh	188	0	-4	0	103	0	-11	0	0.00
Total	35631	2247	-5	570	31036	313	54	856	14.90

* 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	1854	1854	41.72	1738	41.60	0.12
Rihand I STPS	1000	850	939	965	20.82	868	20.31	0.51
Rihand II STPS	1000	900	985	1010	22.01	917	21.53	0.48
Rihand III STPS	1000	843	902	960	20.64	860	20.17	0.47
Dadri I STPS	840	813	810	645	16.04	668	16.66	-0.62
Dadri II STPS	980	473	425	415	9.70	404	10.15	-0.46
Unchahar I TPS	420	408	397	424	9.03	376	9.56	-0.54
Unchahar II TPS	420	408	401	433	8.73	364	9.25	-0.52
Unchahar III TPS	210	204	201	210	4.28	178	4.53	-0.26
ISTPP (Jhajjhar)	1500	1000	513	325	8.40	350	8.47	-0.07
Dadri GPS	830	806	377	392	8.72	363	9.08	-0.36
Anta GPS	419	389	254	264	6.05	252	6.01	0.04
Auraiya GPS	663	648	146	154	3.48	145	3.67	-0.19
Dadri Solar	5		0	0	0.00	0		0.00
Unchahar Solar	10		0	0	0.00	0		0.00
Sub Total (A)	11297	9477	8204	8051	180	7484	181	-1
B. NPC								
NAPS	440	293	325	334	6.95	290	6.00	0.95
RAPS- B	440	410	453	457	9.79	408	9.84	-0.05
RAPS- C	440	420	452	464	9.96	415	10.08	-0.12
Sub Total (B)	1320	1123	1230	1255	26.70	1113	25.92	0.78
C. NHPC								
Chamera I HPS	540	540	540	0	7.55	315	7.50	0.05
Chamera II HPS	300	300	232	0	3.08	128	3.00	0.08
Chamera III HPS	231	231	160	0	1.82	76	1.78	0.05
Bairasui HPS	180	122	122	122	2.96	123	2.93	0.03
Salal-HPS	690	373	487	348	9.39	391	8.99	0.40
Tanakpur-HPS	94	22	27	21	0.55	23	0.53	0.02
Uri-HPS	480	467	476	474	11.39	475	11.22	0.17
Uri-II HPS	240	180	187	192	4.50	187	4.32	0.18
Dhauliganga-HPS	280	0	0	0	0.00	0	0.00	0.00
Dulhasti-HPS	390	387	401	0	4.35	181	4.25	0.10
Sewa-II HPS	120	122	130	130	3.08	128	2.93	0.16
Parbati 3	390	0	129	0	0.82	34	0.00	0.82
Sub Total ©	3935	2744	2891	1287	49	2062	47	2
D. SJVNL								
NJPC	1500	1605	707	174	9.90	413	9.68	0.23
Rampur HEP	206		0	0	0.00	0		0.00
Sub Total (D)	1706	1605	707	174	9.90	413	9.68	0.23
E. THDC								
Tehri HPS	1000	540	542	0	8.06	336	8.00	0.06
Koteshwar HPS	400	146	399	90	3.54	147	3.50	0.04
Sub Total (E)	1400	686	941	90	11.60	483	11.50	0.10
F. BBMB								
Bhakra HPS	1514	314	325	308	7.71	321	7.54	0.17
Dehar HPS	990	277	660	290	6.80	283	6.65	0.15
Pong HPS	396	27	182	0	0.65	27	0.65	0.01
Sub Total (F)	2900	618	1167	598	15.16	632	14.83	0.33
G. IPP(s)/JV(s)								
ADHPL HPS(IPP)	192	0	166	35	0.60	25	0.59	0.01
KWHEP HPS(IPP)	1000	0	554	151	4.94	206	4.92	0.02
Malana Stg-II HPS	100	0	0	0	0.33	14	0.30	0.03
Shree Cement TPS	300	0	265	208	5.83	243	5.83	0.00
Budhil HPS(IPP)	70	0	35	0	0.04	2	0.63	-0.60
Sub Total (G)	1662	0	1020	394	11.73	489	12.27	-0.54
H. Total Regional Entities (A-G)	24221	16252	16160	11849	304.19	12675	302.63	1.57

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	450	450	10.45	436
	Guru Nanak Dev TPS(Bhatinda)	440	90	120	2.30	96
	Guru Hargobind Singh TPS(L.mbt)	920	425	309	7.55	315
	Goindwal(GVK)		0	0	0.00	0
	Rajpura	700	625	655	15.81	659
	Talwandi Saboo	660	0	0	0.00	0
	Thermal (Total)	3980	1590	1534	36.11	1505
	Total Hydro	1148	390	277	7.06	294
Total Punjab	5128	1980	1811	43.17	1799	
Haryana	Panipat TPS	1367	221	212	5.19	216
	DCRTPP (Yamuna nagar)	600	565	247	10.23	426
	Faridabad GPS (NTPC)	432	239	239	4.68	195
	RGTPP (khedar) (IPP)	1200	0	0	0.00	0
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	1320	610	536	10.98	458
	Thermal (Total)	4944	1635	1234	31.08	1295
	Total Hydro	62	19	17	0.46	19
	Total Haryana	5006	1654	1251	31.54	1314
	Rajasthan	kota TPS	1240	1163	1006	26.54
suratgarh TPS		1500	1107	1015	25.21	1050
Chabra TPS		750	417	361	10.04	418
Dholpur GPS		330	136	134	3.34	139
Ramgarh GPS		221	56	55	1.60	67
RAPS A (NPC)		300	175	175	4.03	168
Barsingsar (NLC)		250	166	174	3.87	161
Giral LTPS		250	0	0	0.00	0
Rajwest LTPS (IPP)		1080	952	735	22.02	917
VSLP LTPS (IPP)		135	0	0	0.00	0
Kalisindh Thermal		600	0	0	0.00	0
Kawai(Adani)		1320	581	602	14.12	588
Thermal (Total)		7976	4753	4257	110.76	4615
Total Hydro		550	10	46	0.78	33
Wind power		2191	111	680	6.71	280
Biomass		91	28	28	0.66	28
Solar		201	0	0	0.27	11
Renewable/Others (Total)	2483	139	708	7.64	318	
Total Rajasthan	11009	4902	5011	119.18	4966	
UP	Anpara TPS	1630	1381	968	26.50	1104
	Obra TPS	1288	373	372	9.10	379
	Paricha TPS	1140	758	766	18.30	763
	Panki TPS	210	86	0	1.50	63
	Harduaganj TPS	665	365	350	8.60	358
	Tanda TPS (NTPC)	440	384	382	9.43	393
	Roza TPS (IPP)	1200	784	1098	23.64	985
	Anpara-C (IPP)	1200	1071	1071	25.30	1054
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	303	403	6.84	285
	Thermal (Total)	8223	5505	5410	129.21	5384
	Vishnuparyag HPS (IPP)	400	78	78	1.83	76
	Other Hydro	527	67	71	1.68	70
	Cogeneration	981	500	500	12.00	500
	Total UP	10131	6150	6059	144.72	5954
Uttarakhand	Total Hydro	1303	468	296	8.92	372
	Total Uttarakhand	1303	468	296	8.92	372
Delhi	Rajghat TPS	135	0	0	0.00	0
	Delhi Gas Turbine	282	107	80	2.03	84
	Pragati Gas Turbine	330	142	147	3.49	145
	Rithala GPS	95	0	0	0.00	0
	Bawana GPS	1370	0	0	0.00	0
	Badarpur TPS (NTPC)	705	360	350	7.58	316
	Thermal (Total)	2917	609	577	13.10	546
Total Delhi	2917	609	577	13.10	546	
HP	Baspa HPS (IPP)	300	28	0	0.89	37
	Malana HPS (IPP)	86	61	0	0.46	19
	Other Hydro	728	341	298	9.27	386
	Total HP	1114	430	298	10.62	442
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	16706	15833	384.05	15926
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			4780	4616	117.37	4890
Total Regional Availability(Gross)		61923	37646	32298	805.62	33491

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	6426	2335	92.02	3834
State Control Area Hydro	5589	1897	1535	44.16	1764
Total Regional Hydro	16823	8323	3870	136.18	5598

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	12.03	0.00	12.03
Gwalior-Agra (D/C)	1853	1846	1990	0	42.01	0.00	42.01
Zerda-Kankroli	-146	-332	0	332	0.00	5.66	-5.66
Zerda-Bhinmal	-97	-292	0	304	0.00	4.11	-4.11
Malanpur-Auraiya	-39	-23	0	43	0.00	0.51	-0.51
Badod-Kota/Morak	-65	-123	0	123	0.00	1.25	-1.25
Mundra-Mohinderghar(HVDC)	1998	2003	2013	0	48.34	0.00	48.34
Sub Total WR	4004	3579			102.38	11.53	90.85
Pusauli Bypass	-524	100	100	622	1.19	0.00	1.19
MZP- GKP (D/C)	270	184	300	0	4.74	0.00	4.74
Patna-Balia(D/C)	391	483	549	0	9.84	0.00	9.84
B Sharif-Balia (D/C)	308	308	392	0	5.92	0.00	5.92
Pusauli-Balia	55	-6	77	70	0.08	0.00	0.08
Gaya-Fatehpur (765 Kv)	-36	-113	103	140	0.00	0.81	-0.81
Pusauli-Sahupuri	143	184	195	0	3.97	0.00	3.97
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)	197	-73	337	119	2.23	0.00	2.23
Sub Total ER	776	1037			27.97	1.45	26.52
Total IR Exch	4780	4616			130.35	12.98	117.37

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
31.58	0.25	31.83	7.88	-0.41	-2.61	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
37.10	75.40	112.50	26.52	90.85	117.37	-10.58	15.45	4.87

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	0.37	6.73	30.15	72.95	58.58	7.40	4.91	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				
50.21	13.03	49.60	22.38	49.95	0.11	0.09	50.17	49.83

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	402	13:03	398	18:56	0.0	0.0	0.0	0.0
Gorakhpur	400	428	13:03	409	00:45	0.0	0.0	40.6	0.0
Bareilly	400	413	08:03	399	14:50	0.0	0.0	0.0	0.0
Kanpur	400	412	07:05	401	14:51	0.0	0.0	0.0	0.0
Dadri	400	418	03:32	400	14:49	0.0	0.0	0.0	0.0
Ballabgarh	400	427	03:32	407	14:51	0.0	0.0	27.5	0.0
Bawana	400	424	03:34	404	14:50	0.0	0.0	13.9	0.0
Bassi	400	431	03:32	412	09:28	0.0	0.0	42.2	0.8
Hissar	400	415	03:39	397	19:06	0.0	0.0	0.0	0.0
Moga	400	415	04:02	397	19:10	0.0	0.0	0.0	0.0
Abdullapur	400	427	03:40	406	19:08	0.0	0.0	22.7	0.0
Nalagarh	400	422	03:32	403	19:18	0.0	0.0	4.9	0.0
Kishenpur	400	419	02:47	397	19:18	0.0	0.0	0.0	0.0
Wagoora	400	411	13:01	379	19:33	1.3	19.7	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	764	13:02	739	19:18	0.0	2.4	0.0	0.0
Balia	765	752	13:05	720	00:11	7.7	72.2	0.0	0.0
Moga	765	790	03:32	756	19:18	0.0	0.0	0.0	0.0
Agra	765	792	07:07	767	14:56	0.0	0.0	0.0	0.0
Bhiwani	765	792	13:03	767	14:56	0.0	0.0	0.0	0.0
Unnao	765	742	20:20	723	14:53	19.2	98.7	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 15.04.2014 :

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 : 15.04.2014

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER