

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 14.05.2014
Date of Reporting : 15.05.2014

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
33977	2013	35989	50.01	29103	500	29603	50.18	705.8	38.44

* 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	18.05	1.25		19.30	61.88	63.22	1.34	82.52	0.00
Haryana	21.57	0.15		21.72	76.65	77.73	1.07	99.44	0.06
Rajasthan	74.69	0.00	6.87	81.56	42.05	39.31	-2.74	120.87	0.00
Delhi	16.83			16.83	60.14	58.68	-1.46	75.51	0.01
UP	121.59	7.14	2.40	131.12	109.83	108.41	-1.42	239.53	36.44
Uttarakhand		15.28		15.28	18.10	17.70	-0.40	32.98	0.23
HP		17.56		17.56	2.77	5.29	2.52	22.85	0.00
J & K		10.54	0.00	10.54	17.52	17.60	0.09	28.14	1.70
Chandigarh				0.00	4.49	3.97	-0.52	3.97	0.00
Total	252.73	51.91	9.27	313.91	393.43	391.92	-1.51	705.83	38.44

* 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	4686	0	17	375	3151	0	65	321	8.61
Haryana	4937	123	-150	369	3897	0	65	217	8.96
Rajasthan	6509	0	-83	-46	4640	0	-341	62	-0.26
Delhi	3592	0	125	-86	2868	0	-96	-400	-4.51
UP	10084	1715	-138	545	11413	500	32	1269	16.29
Uttarakhand	1643	75	136	277	1239	0	-49	234	5.77
HP	786	0	-2	-1187	736	0	265	-895	-20.87
J&K	1543	100	90	-349	1041	0	-48	-678	-12.11
Chandigarh	198	0	-24	0	119	0	-38	0	0.24
Total	33977	2013	-30	-103	29103	500	-145	130	2.11

* 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	1693	1862	1874	38.32	1597	38.33	-0.02
Rihand I STPS	1000	882	741	980	18.76	782	18.76	0.00
Rihand II STPS	1000	939	674	989	20.08	837	20.35	-0.27
Rihand III STPS	1000	546	356	792	11.16	465	11.61	-0.45
Dadri I STPS	840	813	579	613	13.27	553	13.67	-0.39
Dadri II STPS	980	980	724	732	16.02	668	17.08	-1.06
Unchahar I TPS	420	408	304	393	7.77	324	8.17	-0.40
Unchahar II TPS	420	289	158	355	5.39	224	5.67	-0.28
Unchahar III TPS	210	204	158	186	3.80	158	3.94	-0.14
ISTPP (Jhajjar)	1500	1000	640	827	15.27	636	15.44	-0.17
Dadri GPS	830	805	385	290	8.08	337	8.19	-0.11
Anta GPS	419	391	0	0	0.00	0	0.00	0.00
Auraiya GPS	663	638	155	143	3.39	141	3.46	-0.07
Dadri Solar	5	1	0	0	0.00	0	0.03	-0.03
Unchahar Solar	10	0	0	0	0.00	0	0.00	0.00
Sub Total (A)	11297	9589	6736	8174	161	6721	165	-3
B. NPC								
NAPS	440	143	171	167	3.50	146	3.43	0.07
RAPS- B	440	410	453	446	9.74	406	9.84	-0.10
RAPS- C	440	210	233	229	4.96	207	5.89	-0.93
Sub Total (B)	1320	763	857	842	18.20	758	19.16	-0.96
C. NHPC								
Chamera I HPS	540	535	540	540	12.55	523	12.84	-0.29
Chamera II HPS	300	300	301	302	7.12	297	7.10	0.02
Chamera III HPS	231	229	148	230	4.13	172	4.10	0.03
Bairasui HPS	180	180	180	180	4.34	181	4.32	0.02
Salal-HPS	690	648	669	674	15.65	652	15.51	0.14
Tanakpur-HPS	94	41	36	50	1.02	42	0.98	0.04
Uri-HPS	480	475	477	477	11.53	480	11.40	0.13
Uri-II HPS	240	219	212	245	5.26	219	5.25	0.00
Dhauliganga-HPS	280	105	69	138	2.36	98	2.52	-0.16
Dulhasti-HPS	390	387	381	404	9.39	391	9.30	0.09
Sewa-II HPS	120	122	130	130	3.08	128	2.93	0.15
Parbati 3	390	260	0	260	1.94	81	1.94	0.00
Sub Total ©	3935	3501	3143	3630	78	3265	78	0
D. SJVNL								
NJPC	1500	1605	505	1274	16.17	674	16.07	0.11
Rampur HEP	206		122	211	3.37	140	4	-0.13
Sub Total (D)	1706	1605	627	1485	19.54	814	19.57	-0.03
E. THDC								
Tehri HPS	1000	486	285	425	8.93	372	9.00	-0.07
Koteshwar HPS	400	300	91	302	4.70	196	4.70	0.00
Sub Total (E)	1400	786	376	727	13.63	568	13.70	-0.07
F. BBMB								
Bhakra HPS	1514	800	633	1307	19.44	810	19.20	0.24
Dehar HPS	990	560	620	660	14.21	592	13.44	0.77
Pong HPS	396	68	63	126	1.69	70	1.64	0.05
Sub Total (F)	2900	1428	1316	2093	35.34	1473	34.28	1.06
G. IPP(s)/JV(s)								
ADHPL HPS(IPP)	192	0	36	106	1.23	51	1.37	-0.14
KWHEP HPS(IPP)	1000	0	224	429	8.27	344	8.17	0.10
Malana Stg-II HPS	100	0	0	104	0.63	26	0.61	0.02
Shree Cement TPS	300	0	213	222	5.29	221	5.20	0.09
Budhil HPS(IPP)	70	0	8	7	0.84	35	0.91	-0.07
Sub Total (G)	1662	0	481	868	16.25	677	16.26	0.00
H. Total Regional Entities (A-G)	24221	17672	13536	17819	342.63	14276	345.85	-3.22

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	350	385	8	332
	Guru Nanak Dev TPS(Bhatinda)	440	90	90	2	85
	Guru Hargobind Singh TPS(L.mbt)	920	349	405	8	335
	Goindwal(GVK)		0	0	0	0
	Rajpura	700	0	0	0	0
	Talwandi Saboo	660	0	0	0.00	0
	Thermal (Total)	3980	789	880	18	752
	Total Hydro	1148	507	570	1.25	52
Total Punjab	5128	1296	1450	19.30	804	
Haryana	Panipat TPS	1367	0	0	0.00	0
	DCRTPP (Yamuna nagar)	600	247	274	6.15	256
	Faridabad GPS (NTPC)	432	175	175	4.71	196
	RGTPP (khedar) (IPP)	1200	409	564	10.71	446
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	1320	0	0	0.00	0
	Thermal (Total)	4944	831	1013	22	899
	Total Hydro	62	4	9	0.15	6
	Total Haryana	5006	835	1022	21.72	905
	Rajasthan	kota TPS	1240	830	839	19.10
suratgarh TPS		1500	838	805	19.69	820
Chabra TPS		750	189	192	4.74	198
Dholpur GPS		330	0	0	0.00	0
Ramgarh GPS		221	0	0	0.00	0
RAPS A (NPC)		300	206	206	4.05	169
Barsingsar (NLC)		250	82	63	1.69	70
Giral LTPS		250	0	0	0.00	0
Rajwest LTPS (IPP)		1080	437	672	14.70	612
VSLP LTPS (IPP)		135	0	0	0.00	0
Kalisindh Thermal		600	0	246	2.99	124
Kawai(Adani)		1320	957	1140	7.74	323
Thermal (Total)		7976	3539	4163	75	3112
Total Hydro		550	0	0	0.00	0
Wind power		2191	214	305	5.89	246
Biomass		91	225	25	0.58	24
Solar		201	0	0	0.39	16
Renewable/Others (Total)		2483	439	330	6.87	286
Total Rajasthan		11009	3978	4493	81.56	3398
UP		Anpara TPS	1630	1357	1371	32.50
	Obra TPS	1288	360	151	5.60	233
	Paricha TPS	1140	781	787	18.20	758
	Panki TPS	210	153	77	2.70	113
	Harduaganj TPS	665	173	172	4.10	171
	Tanda TPS (NTPC)	440	365	380	8.74	364
	Roza TPS (IPP)	1200	1080	905	23.44	977
	Anpara-C (IPP)	1200	1037	1030	22.22	926
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	306	280	4.09	170
	Thermal (Total)	8223	5612	5153	122	5066
	Vishnuparyag HPS (IPP)	400	178	173	4.09	170
	Other Hydro	527	153	155	3.04	127
	Cogeneration	981	100	100	2.40	100
	Total UP	10131	6043	5581	131.12	5293
	Uttarakhand	Total Hydro	1303	651	609	15.28
Total Uttarakhand		1303	651	609	15.28	637
Delhi	Rajghat TPS	135	47	51	1.20	50
	Delhi Gas Turbine	282	118	112	2.71	113
	Pragati Gas Turbine	330	100	95	2.37	99
	Rithala GPS	95	0	0	0.00	0
	Bawana GPS	1370	0	0	0.00	0
	Badarpur TPS (NTPC)	705	400	500	10.55	440
	Thermal (Total)	2917	665	758	16.83	701
	Total Delhi	2917	665	758	16.83	701
HP	Baspa HPS (IPP)	300	110	80	2.74	114
	Malana HPS (IPP)	86	0	86	0.84	35
	Other Hydro	728	570	599	13.98	583
	Total HP	1114	680	765	17.56	732
J & K	Baglihar HPS (IPP)	450	440	440	10.54	439
	Other Hydro/IPP	436	0	0	0.00	0
	Gas/Diesel/Others	209	0	0	0.00	0
	Total J & K	1094	440	440	10.54	439
Total State Control Area Generation		37702	14588	15118	313.91	12909
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			3862	1081	63.10	2629
Total Regional Availability(Gross)		61923	31986	34018	719.65	29815

IV. Total Hydro Generation:

Regional Entities Hydro	11233	5722	8574	156.99	6541
State Control Area Hydro	5589	2435	2548	51.91	1993
Total Regional Hydro	16823	8157	11122	208.90	8534

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	100	-500	400	500	0.78	9.02	-8.24
Gwalior-Agra (D/C)	1437	570	1882	0	25.48	0.00	25.48
Zerda-Kankroli	-3	-316	0	370	0.00	4.09	-4.09
Zerda-Bhinmal	12	-239	43	305	0.00	2.60	-2.60
Malanpur-Auraiya	-59	-74	0	96	0.00	1.08	-1.08
Badod-Kota/Morak	-15	-272	0	272	0.00	2.13	-2.13
Mundra-Mohindergarh(HVDC)	1502	1398	1703	0	35.00	0.00	35.00
Sub Total WR	2974	567			61.26	18.91	42.34
Pusauli Bypass	400	400	400	0	9.80	0.00	9.80
MZP- GKP (D/C)	200	120	342	0	4.36	0.00	4.36
Patna-Balia(D/C)	192	115	260	0	3.88	0.00	3.88
B'Sharif-Balia (D/C)	113	66	211	0	2.19	0.00	2.19
Pusauli-Balia	-87	-83	0	109	0.00	1.89	-1.89
Gaya-Fatehpur (765 Kv)	5	-128	61	153	0.00	0.67	-0.67
Pusauli-Sahupuri	4	155	166	0	3.10	0.00	3.10
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)	61	-131	107	168	0.00	0.01	-0.01
Sub Total ER	888	514			23.33	2.57	20.76
Total IR Exch	3862	1081			84.58	21.48	63.10

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
25.08	0.71	25.79	9.03	-1.85	-10.93	-6.34	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
23.89	38.53	62.43	20.76	42.34	63.10	-3.13	3.81	0.68

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	0.19	2.92	18.68	51.34	53.52	13.60	14.62	4.05	NA

<----- 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				
50.33	18.04	49.68	22.12	50.00	0.11	0.11	50.31	49.85

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	411	05:05	402	15:32	0.0	0.0	0.0	0.0
Gorakhpur	400	439	06:36	416	19:39	0.0	0.0	85.6	25.4
Bareilly	400	425	04:04	400	22:12	0.0	0.0	16.1	0.0
Kanpur	400	424	04:04	404	19:32	0.0	0.0	15.7	0.0
Dadri	400	428	03:36	402	19:30	0.0	0.0	24.8	0.0
Ballabgarh	400	436	05:04	408	19:30	0.0	0.0	26.5	16.8
Bawana	400	429	03:31	403	19:28	0.0	0.0	32.1	0.0
Bassi	400	435	01:58	410	15:45	0.0	0.0	32.0	7.9
Hissar	400	425	03:51	398	19:30	0.0	0.0	12.1	0.0
Moga	400	420	03:24	397	19:27	0.0	0.0	0.0	0.0
Abdullapur	400	431	02:59	415	10:45	0.0	0.0	65.9	0.3
Nalagarh	400	430	03:01	407	19:26	0.0	0.0	32.0	0.0
Kishenpur	400	415	03:23	399	19:30	0.0	0.0	0.0	0.0
Wagoora	400	411	02:56	388	20:27	0.0	0.5	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	784	05:05	743	19:36	0.0	0.0	0.0	0.0
Balia	765	771	13:04	738	19:26	0.0	2.6	0.0	0.0
Moga	765	797	03:24	753	19:35	0.0	0.0	0.0	0.0
Agra	765	800	05:06	758	19:32	0.0	0.0	0.0	0.0
Bhiwani	765	816	04:04	783	10:48	0.0	0.0	50.0	0.0
Unnao	765	774	06:07	737	21:10	0.0	9.8	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	481.76	503.43	475.71	368.17	637.92	701.52
Pong	426.72	384.05	403.17	296.79	400.39	230.85	131.90	31.83
Tehri	829.79	740.04	751.75	61.57	NA	NA	127.72	298.00
Koteshwar	612.50	598.50	610.71	4.95	601.40	0.80	298.00	300.00
Chamera-I	760.00	748.75	NA	NA	NA	NA	206.25	230.88
Rihand	268.22	252.98	258.07	205.10	256.79	149.00	NA	NA
RPS	352.80	343.81	348.06	NA	NA	NA	NA	NA
Jawahar Sagar	298.70	295.78	298.80	NA	NA	NA	NA	NA
RSD	527.91	487.91	516.64	144.00	506.65	144.00	224.47	197.51

* NA: Not Available

X. System Constraints:

XI. Grid Disturbance / Any Other Significant Event:

XII. Weather Conditions For 14.05.2014 :
Cloudy weather in Rajasthan.

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 :

Report for : 14.05.2014

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER