

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 13.05.2014
Date of Reporting : 14.05.2014

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
34698	2115	36813	50.07	30413	500	30913	50.20	740.4	33.97

* 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	19.48	12.11		31.58	56.99	54.32	-2.66	85.91	0.00
Haryana	23.14	0.18		23.32	75.41	78.18	2.76	101.50	0.24
Rajasthan	84.87	0.18	13.39	98.44	47.96	45.98	-1.98	144.42	0.00
Delhi	15.26			15.26	65.53	65.36	-0.17	80.62	0.09
UP	125.48	7.31	2.40	135.18	113.41	113.43	0.02	248.61	31.94
Uttarakhand		13.26		13.26	18.18	16.41	-1.77	29.67	0.00
HP		17.31		17.31	5.25	5.29	0.04	22.60	0.00
J & K		10.49	0.00	10.49	16.14	12.40	-3.74	22.90	1.70
Chandigarh				0.00	4.49	4.15	-0.34	4.15	0.00
Total	268.22	60.84	15.79	344.85	403.36	395.53	-7.83	740.37	33.97

* 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	4192	0	-219	556	3040	0	-324	199	11.73	
Haryana	5293	0	307	378	4217	0	79	224	8.43	
Rajasthan	6722	0	-75	9	5562	0	-220	31	0.01	
Delhi	3804	0	237	92	3265	0	42	-178	-0.39	
UP	10617	2015	33	554	11698	500	-14	1459	17.18	
Uttarakhand	1611	0	-66	407	1107	0	-105	225	6.18	
HP	786	0	-139	-1041	736	0	24	-778	-17.90	
J&K	1473	100	42	-381	641	0	-479	-703	-12.84	
Chandigarh	201	0	-15	0	147	0	-33	0	0.24	
Total	34698	2115	104	574	30413	500	-1031	479	12.64	

* 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	1725	1767	1492	37.93	1580	37.76		0.17
Rihand I STPS	1000	847	852	680	17.36	723	17.23		0.13
Rihand II STPS	1000	920	937	726	18.31	763	18.46		-0.15
Rihand III STPS	1000	703	335	696	13.32	555	13.93		-0.61
Dadri I STPS	840	813	649	600	15.55	648	14.13		1.42
Dadri II STPS	980	980	726	692	16.79	700	17.31		-0.52
Unchahar I TPS	420	408	389	306	7.49	312	7.71		-0.22
Unchahar II TPS	420	204	179	156	3.50	146	3.58		-0.08
Unchahar III TPS	210	204	187	155	3.50	146	3.63		-0.13
ISTPP (Jhajjar)	1500	1000	733	642	15.00	625	15.21		-0.21
Dadri GPS	830	805	379	319	6.91	288	7.03		-0.12
Anta GPS	419	391	0	0	0.00	0	0.00		0.00
Auraiya GPS	663	638	125	155	3.20	133	3.20		0.00
Dadri Solar	5	1	0	0	0.00	0	0.02		-0.02
Unchahar Solar	10	0	0	0	0.00	0	0.00		0.00
Sub Total (A)	11297	9639	7258	6619	159	6619	159		0
B. NPC									
NAPS	440	143	166	171	3.53	147	3.43		0.10
RAPS- B	440	403	448	451	9.71	404	9.67		0.03
RAPS- C	440	270	230	461	5.99	250	6.49		-0.50
Sub Total (B)	1320	816	844	1083	19.23	801	19.59		-0.36
C. NHPC									
Chamera I HPS	540	535	540	540	12.59	525	12.84		-0.25
Chamera II HPS	300	300	302	302	7.02	292	7.20		-0.18
Chamera III HPS	231	229	231	147	4.49	187	4.50		-0.01
Bairasui HPS	180	150	180	180	3.59	150	3.60		-0.01
Salal-HPS	690	650	676	673	15.82	659	15.61		0.21
Tanakpur-HPS	94	34	50	32	0.82	34	0.82		-0.01
Uri-HPS	480	475	475	473	11.50	479	11.40		0.10
Uri-II HPS	240	238	242	245	5.68	237	5.70		-0.02
Dhauliganga-HPS	280	108	137	70	2.39	100	2.59		-0.20
Dulhasti-HPS	390	387	403	382	9.26	386	9.30		-0.04
Sewa-II HPS	120	122	130	130	3.08	128	2.93		0.15
Parbati 3	390	260	0	0	2.19	91	2.10		0.09
Sub Total ©	3935	3488	3366	3174	78	3267	79		0
D. SJVNL									
NJPC	1500	1605	1518	777	21.24	885	21.45		-0.20
Rampur HEP	206		208	206	4.76	198			4.76
Sub Total (D)	1706	1605	1726	983	26.00	1083	21.45		4.55
E. THDC									
Tehri HPS	1000	475	570	418	8.10	337	8.07		0.02
Koteshwar HPS	400	300	301	90	4.18	174	4.20		-0.02
Sub Total (E)	1400	775	871	508	12.28	511	12.27		0.00
F. BBMB									
Bhakra HPS	1514	791	1311	635	18.84	785	18.98		-0.14
Dehar HPS	990	560	660	600	13.94	581	13.44		0.50
Pong HPS	396	140	309	0	3.16	132	3.36		-0.20
Sub Total (F)	2900	1491	2280	1235	35.94	1498	35.78		0.17
G. IPP(s)/JV(s)									
ADHPL HPS(IPP)	192	0	127	58	1.46	61	1.61		-0.15
KWHEP HPS(IPP)	1000	0	660	398	11.17	466	12.24		-1.07
Malana Stg-II HPS	100	0	111	0	0.77	32	0.73		0.04
Shree Cement TPS	300	0	247	215	5.49	229	5.44		0.05
Budhil HPS(IPP)	70	0	35	35	0.72	30	0.91		-0.20
Sub Total (G)	1662	0	1180	706	19.61	817	20.94		-1.33
H. Total Regional Entities (A-G)	24221	17814	17525	14308	350.33	14597	347.82		2.51

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	385	725	10	430
	Guru Nanak Dev TPS(Bhatinda)	440	90	90	2	82
	Guru Hargobind Singh TPS(L.mbt)	920	331	173	7	276
	Goindwal(GVK)		0	0	0	0
	Rajpura	700	0	0	1	24
	Talwandi Saboo	660	0	0	0.00	0
	Thermal (Total)	3980	806	988	19	812
	Total Hydro	1148	414	468	12.11	504
	Total Punjab	5128	1220	1456	31.58	1316
Haryana	Panipat TPS	1367	0	0	0.00	0
	DCRTPP (Yamuna nagar)	600	277	369	7.53	314
	Faridabad GPS (NTPC)	432	175	175	4.54	189
	RGTPP (khedar) (IPP)	1200	583	528	11.07	461
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	1320	0	0	0.00	0
	Thermal (Total)	4944	1035	1072	23	964
	Total Hydro	62	6	9	0.18	8
	Total Haryana	5006	1041	1081	23.32	972
	Rajasthan	kota TPS	1240	840	822	19.85
suratgarh TPS		1500	824	1205	21.66	903
Chabra TPS		750	195	194	4.74	198
Dholpur GPS		330	0	134	0.63	26
Ramgarh GPS		221	8	40	0.43	18
RAPS A (NPC)		300	205	180	4.03	168
Barsingsar (NLC)		250	82	82	1.83	76
Giral LTPS		250	0	0	0.00	0
Rajwest LTPS (IPP)		1080	639	497	14.63	609
VSLP LTPS (IPP)		135	0	0	0.00	0
Kalisindh Thermal		600	0	0	0.00	0
Kawai(Adani)		1320	989	488	17.06	711
Thermal (Total)		7976	3782	3642	85	3536
Total Hydro		550	0	0	0.18	8
Wind power		2191	584	816	12.52	522
Biomass		91	27	27	0.66	27
Solar		201	0	0	0.22	9
Renewable/Others (Total)		2483	611	843	13.39	558
Total Rajasthan	11009	4393	4485	98.44	4102	
UP	Anpara TPS	1630	1358	1323	31.60	1317
	Obra TPS	1288	368	342	8.20	342
	Paricha TPS	1140	774	770	18.30	763
	Panki TPS	210	167	158	3.50	146
	Harduaganj TPS	665	167	182	4.10	171
	Tanda TPS (NTPC)	440	390	364	8.82	368
	Roza TPS (IPP)	1200	1008	900	23.43	976
	Anpara-C (IPP)	1200	1026	1013	21.92	913
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	251	250	5.61	234
	Thermal (Total)	8223	5509	5302	125	5228
	Vishnuparyag HPS (IPP)	400	198	208	4.74	197
	Other Hydro	527	117	117	2.57	107
	Cogeneration	981	100	100	2.40	100
	Total UP	10131	5924	5727	135.18	5435
	Uttarakhand	Total Hydro	1303	650	587	13.26
Total Uttarakhand		1303	650	587	13.26	553
Delhi	Rajghat TPS	135	48	109	1.70	71
	Delhi Gas Turbine	282	134	105	2.53	106
	Pragati Gas Turbine	330	97	100	2.41	100
	Rithala GPS	95	0	0	0.00	0
	Bawana GPS	1370	0	0	0.00	0
	Badarpur TPS (NTPC)	705	400	420	8.61	359
	Thermal (Total)	2917	679	734	15.26	636
	Total Delhi	2917	679	734	15.26	636
HP	Baspa HPS (IPP)	300	116	29	2.41	100
	Malana HPS (IPP)	86	87	0	0.82	34
	Other Hydro	728	595	547	14.08	587
	Total HP	1114	798	576	17.31	721
J & K	Baglihar HPS (IPP)	450	438	434	10.49	437
	Other Hydro/IPP	436	0	0	0.00	0
	Gas/Diesel/Others	209	0	0	0.00	0
	Total J & K	1094	438	434	10.49	437
Total State Control Area Generation		37702	15143	15080	344.85	14171
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			3321	1984	51.30	2138
Total Regional Availability(Gross)		61923	35989	31372	746.48	30906

IV. Total Hydro Generation:

Regional Entities Hydro	11233	9141	6356	166.04	6918
State Control Area Hydro	5589	2423	2191	60.84	2338
Total Regional Hydro	16823	11564	8547	226.88	9256

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	-100	100	500	0.03	5.56	-5.54
Gwalior-Agra (D/C)	1068	637	1428	0	16.17	0.00	16.17
Zerda-Kankroli	-46	-366	0	411	0.00	5.24	-5.24
Zerda-Bhinmal	-28	-319	0	371	0.00	4.09	-4.09
Malanpur-Auraiya	-81	-146	0	151	0.00	2.17	-2.17
Badod-Kota/Morak	-26	-144	0	213	0.00	1.94	-1.94
Mundra-Mohindergarh(HVDC)	1999	1999	2006	0	40.14	0.00	40.14
Sub Total WR	2786	1561			56.34	18.99	37.35
Pusaui Bypass	400	400	400	0	9.62	0.00	9.62
MZP- GKP (D/C)	102	60	230	0	2.39	0.00	2.39
Patna-Balia(D/C)	72	136	233	0	3.08	0.00	3.08
B'Sharif-Balia (D/C)	17	53	169	0	1.46	0.00	1.46
Pusaui-Balia	-105	-89	0	118	0.00	2.08	-2.08
Gaya-Fatehpur (765 Kv)	-24	-179	62	224	0.00	2.25	-2.25
Pusaui-Sahupuri	94	186	186	0	3.62	0.00	3.62
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)	-21	-144	50	207	0.00	1.88	-1.88
Sub Total ER	535	423			20.17	6.21	13.95
Total IR Exch	3321	1984			76.51	25.21	51.30

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
25.99	0.69	26.67	9.27	-1.81	-6.47	-4.47	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
29.48	36.69	66.17	13.95	37.35	51.30	-15.52	0.65	-14.87

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	1.00	5.20	19.90	49.60	42.60	14.60	22.90	10.20	NA

Frequency (Hz)				Average Frequency	Frequency Variation Index	Std. Dev.	Frequency in 15 Min Block	
Maximum		Minimum					MAX (Hz)	MIN
Freq	Time	Freq	Time	Hz				
50.55	5.12	49.63	14.40	50.02	0.24	0.15	50.57	49.78

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	410	06:35	402	00:07	0.0	0.0	0.0	0.0
Gorakhpur	400	434	21:03	414	00:07	0.0	0.0	89.5	16.2
Bareilly	400	428	06:55	401	14:19	0.0	0.0	17.0	0.0
Kanpur	400	424	06:19	403	14:39	0.0	0.0	9.4	0.0
Dadri	400	431	05:34	404	14:37	0.0	0.0	23.4	0.4
Ballabgarh	400	418	09:48	406	00:00	0.0	0.0	0.0	0.0
Bawana	400	430	05:03	404	05:13	0.0	0.0	25.1	0.0
Bassi	400	437	03:35	403	11:42	0.0	0.0	37.2	9.3
Hissar	400	424	03:47	400	11:42	0.0	0.0	12.1	0.0
Moga	400	421	03:29	398	11:40	0.0	0.0	0.4	0.0
Abdullapur	400	433	04:02	409	14:16	0.0	0.0	38.9	9.4
Nalagarh	400	433	04:32	406	14:38	0.0	0.0	39.7	6.0
Kishenpur	400	417	03:00	401	11:34	0.0	0.0	0.0	0.0
Wagoora	400	416	02:54	389	20:17	0.0	0.9	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	781	03:48	734	14:36	0.0	1.6	0.0	0.0
Balia	765	767	02:33	751	00:06	0.0	0.0	0.0	0.0
Moga	765	800	05:13	751	20:21	0.0	0.0	0.0	0.0
Agra	765	797	04:01	752	11:42	0.0	0.0	0.0	0.0
Bhiwani	765	819	05:34	767	11:40	0.0	0.0	20.9	0.0
Unnao	765	776	06:15	739	00:03	0.0	1.8	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:

During the night 13-14 May due to bad weather and rain severe load crash to the tune of 2000-2500 MW in NR

XII. Weather Conditions For 13.05.2014 :

Cloudy in most part of 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 :

Report for : 13.05.2014

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER