

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(सावधानी की पूर्ण स्वाभिमूर्ति प्रामुख्यक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 10.05.2014
Date of Reporting : 11.05.2014

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
34050	1725	35775	49.97	37705	1385	39090	50.13	852.1	43.46

* 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	30.19	11.12		41.31	79.06	76.74	-2.32	118.05	0.00
Haryana	22.06	0.61		22.68	89.05	89.67	0.63	112.35	0.00
Rajasthan	110.71	0.00	8.62	119.33	51.30	49.83	-1.47	169.16	0.00
Delhi	19.44			19.44	68.93	68.27	-0.66	87.71	0.26
UP	130.49	10.31	2.40	143.20	124.34	126.91	2.57	270.11	41.19
Uttarakhand		14.50		14.50	19.97	20.95	0.98	35.46	0.25
HP		18.39		18.39	4.87	6.86	1.99	25.25	0.06
J & K		14.02	0.00	14.02	16.54	15.13	-1.40	29.15	1.70
Chandigarh				0.00	4.49	4.84	0.35	4.84	0.00
Total	312.89	68.95	11.02	392.86	458.55	459.21	0.67	852.07	43.46

* 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	4639	0	-397	473	5657	0	43	732	15.40
Haryana	4521	0	271	460	5433	0	164	334	11.59
Rajasthan	6307	0	-241	32	7198	0	57	36	3.75
Delhi	3741	0	101	165	3639	0	-16	-127	0.12
UP	10582	1550	-299	835	12251	1385	221	1449	20.34
Uttarakhand	1643	75	-17	354	1462	0	132	203	6.14
HP	1023	0	-28	-1089	870	0	72	-986	-21.69
J&K	1373	100	29	-414	1022	0	-99	-755	-13.48
Chandigarh	222	0	1	0	174	0	-3	0	0.24
Total	34050	1725	-580	815	37705	1385	570	886	22.42

* 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	1626	1875	1836	38.03	1584	38.11	-0.08
Rihand I STPS	1000	835	880	833	19.02	793	18.74	0.29
Rihand II STPS	1000	950	959	920	21.23	885	21.12	0.11
Rihand III STPS	1000	640	866	441	14.25	594	14.13	0.12
Dadri I STPS	840	679	609	486	12.70	529	13.43	-0.72
Dadri II STPS	980	980	736	718	17.64	735	18.14	-0.50
Unchahar I TPS	420	408	420	341	8.66	361	9.11	-0.45
Unchahar II TPS	420	204	216	154	4.20	175	4.33	-0.14
Unchahar III TPS	210	204	173	158	3.93	164	4.09	-0.16
ISTPP (Jhajjar)	1500	1000	1016	768	17.90	746	18.10	-0.20
Dadri GPS	830	805	302	323	7.27	303	7.36	-0.09
Anta GPS	419	391	0	0	0.00	0	0.00	0.00
Auraiya GPS	663	641	154	145	3.39	141	3.43	-0.04
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	9365	8206	7123	168	7009	170	-2
B. NPC								
NAPS	440	142	167	158	3.37	141	3.41	-0.03
RAPS- B	440	402	451	448	9.72	405	9.65	0.07
RAPS- C	440	410	452	440	9.66	402	9.84	-0.18
Sub Total (B)	1320	954	1070	1046	22.75	948	22.90	-0.15
C. NHPC								
Chamera I HPS	540	535	540	540	12.87	536	12.84	0.03
Chamera II HPS	300	300	304	301	7.27	303	7.20	0.07
Chamera III HPS	231	229	182	182	4.37	182	4.60	-0.23
Bairasui HPS	180	182	182	182	4.37	182	4.37	0.00
Salal-HPS	690	667	671	677	16.20	675	16.01	0.19
Tanakpur-HPS	94	48	51	60	1.17	49	1.15	0.02
Uri-HPS	480	475	475	477	11.49	479	11.40	0.09
Uri-II HPS	240	240	242	243	5.75	240	5.76	-0.01
Dhauliganga-HPS	280	136	140	140	3.82	159	3.26	0.57
Dulhasti-HPS	390	387	404	406	9.48	395	9.30	0.18
Sewa-II HPS	120	122	130	130	3.11	129	2.93	0.18
Parbati 3	390	244	0	128	2.15	90	2.04	0.11
Sub Total ©	3935	3565	3321	3466	82	3419	81	1
D. SJVNL								
NJPC	1500	1605	1517	1611	30.97	1290	31.09	-0.12
Rampur HEP	206		150	220	3.23	134		3.23
Sub Total (D)	1706	1605	1667	1831	34.19	1425	31.09	3.10
E. THDC								
Tehri HPS	1000	445	297	446	9.07	378	9.00	0.07
Koteshwar HPS	400	300	100	300	4.55	190	4.50	0.05
Sub Total (E)	1400	745	397	746	13.62	567	13.50	0.12
F. BBMB								
Bhakra HPS	1514	774	613	1206	19.05	794	18.58	0.47
Dehar HPS	990	487	495	495	12.13	505	11.68	0.45
Pong HPS	396	31	0	180	0.78	33	0.75	0.03
Sub Total (F)	2900	1292	1108	1881	31.96	1332	31.01	0.95
G. IPP(s)/JV(s)								
ADHPL HPS(IPP)	192	0	107	180	2.24	93	2.30	-0.06
KWHEP HPS(IPP)	1000	0	870	780	18.20	758	20.46	-2.26
Malana Stg-II HPS	100	0	0	111	1.07	44	0.99	0.07
Shree Cement TPS	300	0	221	258	5.64	235	5.62	0.02
Budhil HPS(IPP)	70	0	35	35	0.98	41	1.31	-0.33
Sub Total (G)	1662	0	1233	1364	28.12	1172	30.68	-2.56
H. Total Regional Entities (A-G)	24221	17526	17002	17457	380.92	15871	380.14	0.77

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	525	12	506
	Guru Nanak Dev TPS(Bhatinda)	440	120	100	1	53
	Guru Hargobind Singh TPS(L.mbt)	920	250	0	3	118
	Goindwal(GVK)		0	0	0	0
	Rajpura	700	648	658	14	582
	Talwandi Saboo	660	0	0	0.00	0
	Thermal (Total)	3980	1648	1283	30	1258
	Total Hydro	1148	511	437	11.12	463
Total Punjab	5128	2159	1720	41.31	1721	
Haryana	Panipat TPS	1367	0	0	0.00	0
	DCRTPP (Yamuna nagar)	600	286	258	6.18	258
	Faridabad GPS (NTPC)	432	175	175	4.56	190
	RGTPP (khedar) (IPP)	1200	581	506	11.32	472
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	1320	0	0	0.00	0
	Thermal (Total)	4944	1042	939	22	919
	Total Hydro	62	28	28	0.61	26
	Total Haryana	5006	1070	967	22.68	945
	Rajasthan	kota TPS	1240	797	809	18.73
suratgarh TPS		1500	1205	1212	29.87	1245
Chabra TPS		750	387	189	6.93	289
Dholpur GPS		330	134	128	3.22	134
Ramgarh GPS		221	100	73	1.94	81
RAPS A (NPC)		300	180	180	4.06	169
Barsingsar (NLC)		250	83	83	1.83	76
Giral LTPS		250	0	0	0.00	0
Rajwest LTPS (IPP)		1080	832	639	19.16	799
VSLP LTPS (IPP)		135	0	0	0.00	0
Kalisindh Thermal		600	0	0	0.00	0
Kawai(Adani)		1320	969	961	24.97	1040
Thermal (Total)		7976	4687	4274	111	4613
Total Hydro		550	0	0	0.00	0
Wind power		2191	499	357	7.64	318
Biomass		91	33	30	0.73	30
Solar		201	0	0	0.25	11
Renewable/Others (Total)		2483	532	387	8.62	359
Total Rajasthan		11009	5219	4661	119.33	4972
UP	Anpara TPS	1630	1354	1379	32.70	1363
	Obra TPS	1288	360	363	8.70	363
	Paricha TPS	1140	739	761	18.40	767
	Panki TPS	210	60	81	1.80	75
	Harduaganj TPS	665	194	161	4.30	179
	Tanda TPS (NTPC)	440	382	382	9.17	382
	Roza TPS (IPP)	1200	1098	774	25.45	1060
	Anpara-C (IPP)	1200	920	933	22.05	919
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	361	221	7.92	330
	Thermal (Total)	8223	5468	5055	130	5437
	Vishnuparyag HPS (IPP)	400	238	237	5.47	228
	Other Hydro	527	232	147	4.84	202
	Cogeneration	981	100	100	2.40	100
	Total UP	10131	6038	5539	143.20	5739
	Uttarakhand	Total Hydro	1303	572	670	14.50
Total Uttarakhand		1303	572	670	14.50	604
Delhi	Rajghat TPS	135	108	109	2.70	113
	Delhi Gas Turbine	282	104	109	2.52	105
	Pragati Gas Turbine	330	95	95	2.31	96
	Rithala GPS	95	0	0	0.00	0
	Bawana GPS	1370	0	0	0.00	0
	Badarpur TPS (NTPC)	705	510	530	11.91	496
	Thermal (Total)	2917	817	843	19.44	810
	Total Delhi	2917	817	843	19.44	810
HP	Baspa HPS (IPP)	300	163	184	3.97	165
	Malana HPS (IPP)	86	0	92	1.13	47
	Other Hydro	728	504	577	13.29	554
	Total HP	1114	667	853	18.39	766
J & K	Baglihar HPS (IPP)	450	440	448	10.51	438
	Other Hydro/IPP	436	105	150	3.51	146
	Gas/Diesel/Others	209	0	0	0.00	0
	Total J & K	1094	545	598	14.02	584
Total State Control Area Generation		37702	17087	15851	392.86	16141
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			3237	5319	107.06	4461
Total Regional Availability(Gross)		61923	37326	38627	880.83	36474

IV. Total Hydro Generation:

Regional Entities Hydro	11233	7470	8995	183.33	7639
State Control Area Hydro	5589	2555	2733	68.95	2645
Total Regional Hydro	16823	10025	11728	252.28	10284

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	300	300	500	0	9.53	0.00	9.53
Gwalior-Agra (D/C)	1108	1775	2043	0	35.65	0.00	35.65
Zerda-Kankroli	-178	-162	0	271	0.00	3.79	-3.79
Zerda-Bhinmal	-161	-113	71	242	0.00	2.44	-2.44
Malanpur-Auraiya	-68	-48	0	68	0.00	0.86	-0.86
Badod-Kota/Morak	-82	-36	0	82	0.00	1.28	-1.28
Mundra-Mohindergarh(HVDC)	1499	2002	2004	0	39.77	0.00	39.77
Sub Total WR	2418	3718			84.95	8.37	76.58
Pusaali Bypass	400	400	400	0	9.65	0.00	9.65
MZP- GKP (D/C)	156	370	414	0	6.53	0.00	6.53
Patna-Balia(D/C)	184	316	381	0	6.84	0.00	6.84
B'Sharif-Balia (D/C)	123	232	259	0	4.53	0.00	4.53
Pusaali-Balia	-81	-64	0	101	0.00	1.74	-1.74
Gaya-Fatehpur (765 Kv)	-69	163	164	133	0.58	1.74	-1.17
Pusaali-Sahupuri	167	188	193	0	4.22	0.00	4.22
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-38	-35	0	42	0.00	0.31	-0.31
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sasaram - Fatehpur(765 KV)	-23	31	195	107	1.93	0.00	1.93
Sub Total ER	819	1601			34.28	3.80	30.48
Total IR Exch	3237	5319			119.23	12.17	107.06

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
33.42	0.63	34.05	7.13	-0.21	-4.88	-4.24	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
36.30	60.51	96.81	30.48	76.58	107.06	-5.82	16.07	10.24

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	0.00	2.24	16.04	60.56	66.72	11.81	5.02	0.45	0.00

Frequency (Hz)				Average Frequency	Frequency Variation Index	Std. Dev.	Frequency in 15 Min Block	
Maximum		Minimum					MAX (Hz)	MIN
Freq	Time	Freq	Time	Hz				
50.25	18.03	49.74	23.08	49.98	0.07	0.08	50.22	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	406	17:57	367	14:35	0.0	0.0	0.0	0.0
Gorakhpur	400	433	17:13	412	00:17	0.0	0.0	51.2	1.6
Bareilly	400	417	18:05	398	14:22	0.0	0.0	0.0	0.0
Kanpur	400	415	18:03	401	14:19	0.0	0.0	0.0	0.0
Dadri	400	417	18:01	397	14:20	0.0	0.0	0.0	0.0
Ballabgarh	400	425	18:04	404	14:22	0.0	0.0	6.5	0.0
Bawana	400	418	18:04	398	14:22	0.0	0.0	0.0	0.0
Bassi	400	428	18:01	406	09:46	0.0	0.0	23.4	0.0
Hissar	400	412	18:02	391	14:23	0.0	0.0	0.0	0.0
Moga	400	412	18:04	395	09:52	0.0	0.0	0.0	0.0
Abdullapur	400	421	18:03	402	14:21	0.0	0.0	0.1	0.0
Nalagarh	400	420	18:04	402	14:40	0.0	0.0	0.0	0.0
Kishenpur	400	411	18:03	401	09:52	0.0	0.0	0.0	0.0
Wagoora	400	410	15:21	390	19:52	0.0	0.0	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	778	18:04	746	00:14	0.0	0.0	0.0	0.0
Balia	765	780	18:04	747	01:15	0.0	0.0	0.0	0.0
Moga	765	783	18:04	748	14:40	0.0	0.0	0.0	0.0
Agra	765	797	18:05	762	09:52	0.0	0.0	0.0	0.0
Bhiwani	765	800	18:04	762	14:22	0.0	0.0	0.0	0.0
Unnao	765	761	18:06	734	00:13	0.0	32.0	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	482.25	511.55	478.09	420.92	468.28	637.89
Pong	426.72	384.05	402.93	288.96	400.35	223.85	159.45	54.14
Tehri	829.79	740.04	756.15	92.00	NA	NA	108.46	238.00
Koteshwar	612.50	598.50	610.98	4.95	601.50	0.98	244.00	243.00
Chamera-I	760.00	748.75	NA	NA	NA	NA	206.25	230.88
Rihand	268.22	252.98	NA	NA	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	516.64	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 10.05.2014 :

1. Hot weather condition in NR & Rains & storm in evening hours at punjab, Haryana, NCR & west UP.

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 : 10.05.2014

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER