

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 11.05.2013
Date of Reporting : 12.05.2013

I. Regional Availability/Demand:

Demand Met	Evening Peak (20:00 Hrs) MW			Demand Met	Off Peak (03:00 Hrs) MW			Demand Met	Day Energy (Net MU)	
	Shortage	Requirement	Freq* (Hz)		Shortage	Requirement	Freq* (Hz)		Shortage	Requirement
33511	300	33811	50.06	34365	1070	35435	50.09	819.0	47.74	

* 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:

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	36.20	7.48		43.68	76.49	75.30	-1.19	118.98	0.00
Haryana	60.96	0.62		61.58	74.21	72.05	-2.16	133.63	0.00
Rajasthan	83.68	0.00	10.29	93.97	58.14	52.37	-5.77	146.33	0.17
Delhi	30.38			30.38	60.71	57.87	-2.83	88.25	0.02
UP	127.92	6.95	9.60	144.47	103.45	102.21	-1.24	246.68	45.04
Uttarakhand		16.73		16.73	18.09	17.18	-0.91	33.92	0.81
HP		9.30		9.30	8.85	6.52	-2.33	15.82	0.00
J & K		13.49	0.00	13.49	20.07	17.22	-2.85	30.71	1.70
Chandigarh				0.00	4.97	4.73	-0.24	4.73	0.00
Total	339.15	54.56	19.89	413.59	424.96	405.45	-19.51	819.04	47.74

* Shortage furnished by the respective constituent.\$ Others include UP Co-generation and JK Diesel

II. B. State's Demand Met in MWs:

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	
Punjab	5025	0	-396	1045	4288	0	41	1355	23.89
Haryana	5710	0	47	241	5402	0	-58	182	4.22
Rajasthan	5283	0	-628	467	6505	0	-42	136	8.74
Delhi	3589	0	297	-252	3695	0	-187	-281	-6.61
UP	9809	200	-489	105	11052	1070	190	1618	13.81
Uttarakhand	1482	0	-101	416	1444	0	74	367	7.94
HP	904	0	-126	-722	831	0	-116	-396	-13.36
J&K	1497	100	-10	-96	950	0	-168	-175	-3.52
Chandigarh	212	0	-27	0	198	0	30	15	0.28
Total	33511	300	-1432	1204	34365	1070	-235	2820	35.39

* STOA figures are at sellers boundary & PX figures are at regional boundary.

III. Regional Entities :

Entity	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	
										UI (OG:(+ve), UG: (-ve))
A. NTPC	Singrauli STPS	2000	1415	1560	1423	33.59	1400	33.37	0.22	
	Rihand I STPS	1000	915	745	855	20.08	837	20.42	-0.33	
	Rihand II STPS	1000	965	765	891	21.07	878	21.54	-0.47	
	Rihand III STPS	500	177	487	0	3.16	132	3.05	0.11	
	Dadri I STPS	840	807	618	628	13.69	571	13.68	0.01	
	Dadri II STPS	980	969	710	827	16.99	708	18.07	-1.08	
	Unchahar I TPS	420	386	352	360	8.23	343	8.44	-0.22	
	Unchahar II TPS	420	400	316	329	8.17	341	8.21	-0.03	
	Unchahar III TPS	210	200	165	177	4.06	169	4.12	-0.06	
	ISTPP (Jhajjar)	1500	940	619	633	13.66	569	13.71	-0.05	
	Dadri GPS	830	797	362	356	8.11	338	8.16	-0.05	
	Anta GPS	419	389	0	0	0.00	0	0.00	0.00	
	Auraiya GPS	663	621	253	268	6.43	268	6.31	0.12	
	Sub Total (A)	10782	8981	6952	6747	157.24	6552	159.06	-1.82	
	B. NPC	NAPS	440	300	334	341	7.25	302	7.20	0.04
RAPS- B		440	400	444	453	9.74	406	9.60	0.14	
RAPS- C		440	430	471	472	10.09	420	10.32	-0.23	
Sub Total (B)		1320	1130	1249	1266	27.07	1128	27.12	-0.05	
C. NHPC	Chamera I HPS	540	540	78	0	7.32	305	7.49	-0.17	
	Chamera II HPS	300	303	304	311	7.18	299	7.21	-0.03	
	Chamera III HPS	231	231	228	219	5.12	213	5.54	-0.43	
	Bairasuil HPS	180	182	182	70	2.86	119	3.16	-0.30	
	Salal-HPS	690	546	674	567	13.36	556	13.11	0.25	
	Tanakpur-HPS	94	45	64	44	1.05	44	1.09	-0.04	
	Uri-HPS	480	476	480	480	11.51	479	11.54	-0.03	
	Dhauliganga-HPS	280	280	286	0	3.74	156	3.87	-0.13	
	Dulhasti-HPS	390	387	406	407	8.98	374	9.27	-0.30	
	Sewa-II HPS	120	107	84	0	1.84	77	1.94	-0.10	
	Sub Total (C)	3305	3097	2786	2098	62.93	2622	64.21	-1.28	
	D.NJPC	Nathpa Jhakri	1500	1605	1593	1075	30.36	1265	31.22	-0.86
		Sub Total (D)	1500	1605	1593	1075	30.36	1265	31.22	-0.86
E. THDC	Tehri HPS	1000	325	325	150	5.73	239	6.10	-0.38	
	Koteshwar HPS	400	245	162	0	2.22	92	2.30	-0.08	
	Sub Total (E)	1400	570	487	150	7.94	331	8.40	-0.46	
F. BBMB	Bhakra HPS	1480	886	1200	309	21.48	895	21.27	0.21	
	Dehar HPS	990	518	825	330	13.12	547	12.42	0.70	
	Pong HPS	396	7	120	0	0.18	8	0.25	-0.07	
	Sub Total (F)	2866	1411	2145	639	34.78	1449	33.94	0.84	
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	100	110	2.17	90	2.60	-0.44	
	KWHEP HPS(IPP)	1000	0	699	1004	17.43	726	16.56	0.87	
	Malana Stg-II HPS	100	0	40	104	0.91	38	0.82	0.09	
	Shree Cement TPS	300	0	245	268	6.10	254	6.21	-0.11	
	Budhil HPS(IPP)	70	0	0	69	1.06	44	1.10	-0.04	
	Sub Total (G)	1662	0	1084	1555	27.66	1153	27.30	0.36	
H. Total Regional Entities (A-G)	22836	16793	16296	13530	347.98	14499	351.25	-3.27		

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	870	870	20.56	857
	Guru Nanak Dev TPS(Bhatinda)	440	200	200	4.47	186
	Guru Hargobind Singh TPS(L.mbt)	920	579	363	11.18	466
	Thermal (Total)	2620	1649	1433	36.20	1509
	Total Hydro	1148	211	302	7.48	311
Total Punjab	3768	1860	1735	43.68	1820	
Haryana	Panipat TPS	1367	937	957	23.27	969
	DCRTPP (Yamuna nagar)	600	263	279	6.47	270
	Faridabad GPS (NTPC)	432	188	187	4.44	185
	RGTPP (khedar) (IPP)	1200	441	479	12.39	516
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	1320	587	590	14.40	600
	Thermal (Total)	4944	2416	2492	60.96	2540
	Total Hydro	62	26	10	0.62	26
	Total Haryana	5006	2442	2502	61.58	2566
Rajasthan	kota TPS	1240	1017	1144	24.79	1033
	suratgarh TPS	1500	760	827	18.78	782
	Chabra TPS	500	199	214	5.08	212
	Dholpur GPS	330	105	274	3.09	129
	Ramgarh GPS	111	59	104	2.95	123
	RAPS A (NPC)	300	180	180	4.27	178
	Barsingsar (NLC)	250	110	211	3.83	160
	Giral LTPS	250	101	101	2.57	107
	Rajwest LTPS (IPP)	1080	689	771	18.32	763
	VSLP LTPS (IPP)	135	0		0.00	0
	Thermal (Total)	5696	3220	3826	83.68	3487
	Total Hydro	550	0	0	0.00	0
	Wind power	2191	200	568	8.26	344
	Biomass	91	37	37	0.90	37
	Solar	201	0	0	1.14	47
	Renewable/Others (Total)	2483	237	605	10.29	429
	Total Rajasthan	8729	3457	4431	93.97	3915
UP	Anpara TPS	1630	1513	1548	32.70	1363
	Obra TPS	1288	566	558	12.20	508
	Paricha TPS	1140	878	662	16.70	696
	Panki TPS	210	80	85	1.70	71
	Harduaganj TPS	665	455	446	9.40	392
	Tanda TPS (NTPC)	440	392	401	9.61	400
	Roza TPS (IPP)	1200	1008	1008	24.00	1000
	Anpara-C (IPP)	1200	541	539	12.65	527
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	405	363	8.96	373
	Thermal (Total)	8223	5838	5610	127.92	5330
	Vishnuparyag HPS (IPP)	400	183	217	4.66	194
	Other Hydro	527	109	96	2.29	95
	Cogeneration	981	400	400	9.60	400
	Total UP	10131	6530	6323	144.47	5826
Uttarakhand	Total Hydro	1303	722	680	16.73	697
	Total Uttarakhand	1303	722	680	16.73	697
Delhi	Rajghat TPS	135	102	101	2.67	111
	Delhi Gas Turbine	282	81	159	3.43	143
	Pragati Gas Turbine	330	263	263	6.68	278
	Rithala GPS	95	0	0	0.00	0
	Bawana GPS	686	263	237	5.57	232
	Badarpur TPS (NTPC)	705	395	590	12.03	501
	Thermal (Total)	2232	1104	1350	30.38	1266
	Total Delhi	2232	1104	1350	30.38	1266
HP	Baspa HPS (IPP)	330	189	179	4.26	178
	Malana HPS (IPP)	86	20	77	4.31	180
	Other Hydro	589	453	453	0.72	30
	Total HP	1005	662	709	9.30	387
J & K	Baglihar HPS (IPP)	450	436	436	10.47	436
	Other Hydro	323	125	156	3.03	126
	Gas/Diesel/Others	183	0	0	0.00	0
	Total J & K	956	561	592	13.49	562
Total State Control Area Generation		33130	17338	18322	413.59	17039
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			2982	3406	63.78	2657
Total Regional Availability(Gross)		55966	36616	35258	825.35	34195

IV. Total Hydro Generation:

Regional Entities Hydro	10364	7850	5180	156.51	6521
State Control Area Hydro	5368	2291	2389	54.56	2079
Total Regional Hydro	15731	10141	7569	211.07	8601

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	-200	250	250	200	2.31	2.31	0.00
Gwalior-Agra (D/C)	1038	700	1519	0	17.27	0.00	17.27
Zerda-Kankroli	-87	-209	0	368	0.00	5.28	-5.28
Zerda-Bhinmal	-36	-172	17	253	0.00	3.06	-3.06
Malanpur-Auraiya	-138	-128	0	147	0.00	2.44	-2.44
Badod-Kota/Morak	-91	-103	0	177	0.00	2.59	-2.59
Mundra-Mohindergarh(HVDC)	1209	1434	1436	0	32.52	0.00	32.52
Sub Total WR	1695	1772			52.10	15.68	36.42
Pusauli Bypass	-150	-150	0	150	0.00	3.63	-3.63
MZP- GKP (D/C)	742	716	742	0	12.16	0.00	12.16
Patna-Balia(D/C)	274	546	546	0	8.60	0.00	8.60
B'Sharif-Balia (D/C)	96	243	343	0	4.88	0.00	4.88
Pusauli-Balia	52	0	72	60	0.00	0.07	-0.07
Gaya-Fatehpur (765 Kv)	155	151	199	6	2.92	0.00	2.92
Pusauli-Sahupuri	154	168	172	0	3.56	0.00	3.56
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-36	-40	0	44	0.00	1.07	-1.07
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sub Total ER	1287	1634			32.12	4.77	27.36
Total IR Exch	2982	3406			84.22	20.45	63.78

V(B). Inter Regional Schedule & Actual Exchanges [Import (+ve)/Export (-ve)] [Corridor wise]

ER	ISGS/LT Schedule (MU)		Bilateral Schedule (MU)		Power Exchange Shdi (MU)		Wheeling (MU)	
	Bhutan	Total	Through ER	Through WR	Through ER	Through WR	Through ER	Through WR
31.14	1.42	32.56	-2.01	5.67	7.13	-0.15	-1.72	1.72

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
35.97	52.44	88.40	27.36	36.42	63.78	-8.61	-16.02	-24.63

VI. Frequency Profile <----- % of Time Frequency ----->

<48.80	<49.0	<49.20	<49.50	<49.7	49.5 - 50.2	49.7 - 50.2	> 50.00	> 50.2
0.00	0.00	0.00	0.00	0.00	75.70	75.70	84.00	24.30

<----- 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				
50.58	18.06	49.71	19.35	50.12	0.32	0.13	50.55	49.96

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	413	18:05	402	14:37	0.0	0.0	0.0	0.0
Gorakhpur	400	426	13:11	405	20:34	0.0	0.0	13.4	0.0
Bareilly	400	420	18:31	403	20:00	0.0	0.0	0.0	0.0
Kanpur	400	422	18:00:	405	9:55	0.0	0.0	0.0	0.0
Dadri	400	421	18:05	407	23:26	0.0	0.0	0.6	0.0
Ballabgarh	400	428	18:23	411	9:11	0.0	0.0	14.3	0.0
Bawana	400	421	18:04	408	11:37	0.0	0.0	1.0	0.0
Bassi	400	432	18:04	406	8:30	0.0	0.0	21.4	1.3
Hissar	400	411	18:05	397	7:45	0.0	0.0	0.0	0.0
Moga	400	417	3:54	403	9:49	0.0	0.0	0.0	0.0
Abdullapur	400	414	13:04	286	11:53	0.1	0.1	0.0	0.0
Nalagarh	400	416	4:04	403	9:37	0.0	0.0	0.0	0.0
Kishenpur	400	412	4:01	395	20:18	0.0	0.0	0.0	0.0
Wagoora	400	412	3:51	388	20:17	0.0	3.0	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	774	18:05	744	20:25	0.0	0.0	100.0	100.0
Balia	765	777	21:59	715	20:02	0.0	0.0	100.0	100.0
Moga	765	782	18:25	755	11:41	0.0	0.0	100.0	100.0
Agra	765	781	18:02	745	5:42	0.0	0.0	0.0	0.0
Bhiwani	765	793	13:29	762	5:40	0.0	0.0	0.0	0.0
Unnao	765	758	18:17	730	5:42	0.0	37.1	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	475.71	368.17	471.46	293.05	588.96	782.90
Pong	426.72	384.05	400.39	230.85	402.89	288.96	40.89	11.50
Tehri	829.79	740.04	757.50	100.00	818.65	982.26	127.58	181.00
Koteshwar	612.50	598.50	601.40	0.80	NA	NA	181.00	147.00
Chamera-I	760.00	748.75	NA	NA	NA	NA	236.98	198.27
Rihand	268.22	252.98	256.79	149.00	257.37	173.70	NA	NA
RPS	352.80	343.81	346.59	NA	349.12	NA	NA	NA
Jawahar Sagar	298.70	295.78	297.88	NA	298.25	NA	NA	NA
RSD	527.91	487.91	506.82	NA	500.20	NA	155.60	114.74

* NA: Not Available

X. System Constraints:

XI. Grid Disturbance / Any Other Significant Event:

XII. Weather Conditions For 11.05.2013 :

1.Hot weather.

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 : 11.05.2013

पारी प्रभाती अजिंयता / SHIFT CHARGE ENGINEER