

पावर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 09.05.2012
Date of Reporting : 10.05.2012

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
34984	3036	38020	49.98	32736	1215	33951	49.87	783.3	55.56

* 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	49.91	11.25		61.16	56.35	57.93	1.58	119.10	2.15
Haryana	47.05	0.68		47.74	43.53	59.95	16.42	107.68	3.67
Rajasthan	70.16	0.06	11.31	81.54	46.84	56.06	9.22	137.60	3.24
Delhi	34.49			34.49	70.65	55.59	-15.06	90.08	0.22
UP	97.08	9.43	7.20	113.71	95.02	126.47	31.45	240.18	41.24
Uttarakhand		15.89		15.89	11.55	14.42	2.87	30.31	2.91
HP		12.99		12.99	13.47	10.82	-2.65	23.81	0.24
J & K		13.85	0.00	13.85	17.65	15.64	-2.02	29.49	1.90
Chandigarh				0.00	5.07	5.02	-0.06	5.02	0.00
Total	298.70	64.15	18.51	381.37	360.13	401.89	41.76	783.26	55.56

* 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	STOA/PX transaction
Punjab	5373	450	-63	430	4979	0	95	435	10.34
Haryana	5034	450	1020	169	4614	100	909	169	4.05
Rajasthan	6288	75	588	-396	5237	0	-135	-396	-9.08
Delhi	4346	3	-235	438	3393	0	-880	438	10.51
UP	9973	1798	1262	-3	11173	1105	1862	0	-0.06
Uttarakhand	1334	150	25	32	1263	0	269	28	0.76
HP	960	10	-197	-557	823	10	-320	-340	-10.27
J&K	1449	100	-84	-358	1074	0	-167	-358	-8.83
Chandigarh	227	0	-27	0	180	0	6	0	0.24
Total	34984	3036	2289	-245	32736	1215	1639	-24	-2.33

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

III. Regional Entities :

A. NTPC	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
		Singrauli STPS	2000	1450	1578	1579	35.25	1469	34.80
	Rihand I STPS	1000	915	995	999	22.08	920	21.96	0.12
	Rihand II STPS	1000	970	1035	1048	23.47	978	23.28	0.18
	Dadri I STPS	840	593	627	615	14.14	589	13.87	0.27
	Dadri II STPS	980	960	979	1015	22.09	920	23.04	-0.95
	Unchahar I TPS	420	389	433	436	9.38	391	9.32	0.06
	Unchahar II TPS	420	404	439	438	9.74	406	9.70	0.04
	Unchahar III TPS	210	200	218	218	4.83	201	4.80	0.03
	ISTPP (Jhajjar)	1000	480	406	306	8.64	360	8.60	0.04
	Dadri GPS	830	790	586	677	14.71	613	14.69	0.02
	Anta GPS	419	389	266	307	7.00	292	6.84	0.17
	Auraiya GPS	663	612	421	316	7.97	332	8.16	-0.19
	Sub Total (A)	9782	8151	7983	7954.316	179.30	7471	179.06	0.24
B. NPC	NAPS	440	261	296	301	6.22	259	6.26	-0.04
	RAPS- B	440	370	410	419	8.87	370	8.88	-0.01
	RAPS- C	440	420	470	472	9.99	416	10.08	-0.10
	Sub Total (B)	1320	1051	1176	1192	25.08	1045	25.22	-0.15
C. NHPC	Chamera I HPS	540	534	540	180	7.27	303	7.11	0.17
	Chamera II HPS	300	297	298	200	6.23	259	5.96	0.26
	Bairasuil HPS	180	182	182	182	3.90	163	3.71	0.19
	Salal-HPS	690	518	643	413	13.03	543	12.37	0.66
	Tanakpur-HPS	94	26	35	31	0.88	37	0.75	0.14
	Uri-HPS	480	476	479	476	11.59	483	11.60	-0.01
	Dhauliganga-HPS	280	277	237	71	2.26	94	2.30	-0.04
	Dulhasti-HPS	390	388	415	412	9.36	390	9.32	0.04
	Sewa-II HPS	120	80	85	76	1.92	80	1.89	0.03
	Sub Total (C)	3074	2777	2914	2041	56.44	2352	55.01	1.43
D. NJPC	Nathpa Jhakri	1500	1600	1621	815	18.84	785	17.73	1.11
	Sub Total (D)	1500	1600	1621	815	18.84	785	17.73	1.11
E. THDC	Tehri HPS	1000	440	440	0	5.09	212	5.00	0.09
	Koteshwar HPS	400	300	305	0	2.50	104	2.40	0.10
	Sub Total (E)	1400	740	745	0	7.59	316	7.40	0.19
F. BBMB	Bhakra HPS	1480	679	1173	545	16.70	696	16.29	0.41
	Dehar HPS	990	389	660	290	10.88	453	9.35	1.54
	Pong HPS	396	112	240	0	2.61	109	2.70	-0.09
	Sub Total (F)	2866	1181	2073	835	30.19	1258	28.34	1.86
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	155	0	1.74	73	1.42	0.32
	KWHEP HPS(IPP)	1000	0	546	369	9.93	414	9.64	0.29
	Malana Stg-II HPS	100	0	0	0	0.76	32	0.00	0.76
	Shree Cement TPS	300	0	196	131	4.23	176	3.05	1.18
	Sub Total (G)	1592	0	897	500	16.66	694	14.11	2.55
H. Total Regional Entities (A-G)		21535	15500	17409	13337	334.09	13920	326.86	7.23

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	1050	1050	23.75	989	
	Guru Nanak Dev TPS(Bhatinda)	440	216	216	4.67	195	
	Guru Hargobind Singh TPS(L.mbt)	920	960	956	21.50	896	
	Thermal (Total)	2620	2226	2222	49.91	2080	
	Total Hydro	1148	479	468	11.25	469	
	Total Punjab	3768	2705	2690	61.16	2548	
Haryana	Panipat TPS	1367	1067	1052	26.43	1101	
	DCRTPP (Yamuna nagar)	600	0	0	0.00	0	
	Faridabad GPS (NTPC)	432	366	389	9.14	381	
	RGTPP (khedar) (IPP)	1200	461	449	11.49	479	
	Magnum Diesel (IPP)	25	0	0	0.00	0	
	Jhajjar(CLIP)	1320	0	0	0.00	0	
	Thermal (Total)	4944	1894	1890	47.05	1961	
	Total Hydro	62	20	24	0.68	28	
	Total Haryana	5006	1914	1914	47.74	1989	
	Rajasthan	kota TPS	1240	1157	1058	25.83	1076
suratgarh TPS		1500	1102	1120	26.80	1117	
Chabra TPS		500	216	214	5.18	216	
Dholpur GPS		330	97	96	2.28	95	
Ramgarh GPS		111	23	23	0.71	29	
RAPS A (NPC)		300	0	0	0.00	0	
Barsingsar (NLC)		250	81	103	2.46	103	
Giral LTPS		250	0	0	0.00	0	
Rajwest LTPS (IPP)		540	362	255	6.90	288	
VSLP LTPS (IPP)		135	0	0	0.00	0	
Thermal (Total)		5156	3038	2869	70.16	2924	
Total Hydro		550	0	0	0.06	2	
Wind power		1843	85	477	10.18	424	
Biomass		91	49	49	1.08	45	
Solar		128	0	0	0.00	0	
Renewable/Others (Total)		2062	134	526	11.31	471	
Total Rajasthan		7767	3172	3395	81.54	3397	
UP		Anpara TPS	1630	1086	1018	24.70	1029
		Obra TPS	1382	488	480	11.70	488
		Paricha TPS	640	332	358	8.20	342
	Panki TPS	210	140	144	3.10	129	
	Harduaganj TPS	665	220	202	5.10	213	
	Tanda TPS (NTPC)	440	291	293	7.17	299	
	Roza TPS (IPP)	1200	846	851	20.36	848	
	Anpara-C (IPP)	1200	457	408	10.52	438	
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	306	310	6.23	260	
	Thermal (Total)	7817	4166	4064	97.08	4045	
	Vishnuparyag HPS (IPP)	400	209	179	4.47	186	
	Other Hydro	527	217	0	4.96	206	
	Cogeneration	981	300	300	7.20	300	
	Total UP	9725	4892	4543	113.71	4551	
	Uttarakhand	Total Hydro	1303	665	572	15.89	662
Total Uttarakhand		1303	665	572	15.89	662	
Delhi	Rajghat TPS	135	100	99	2.32	97	
	Delhi Gas Turbine	282	223	185	4.62	193	
	Pragati Gas Turbine	330	280	267	6.91	288	
	Rithala GPS	108	15	25	0.51	21	
	Bawana GPS	677	246	267	6.17	257	
	Badarpur TPS (NTPC)	705	665	560	13.96	581	
	Thermal (Total)	2237	1529	1403	34.49	1437	
	Total Delhi	2237	1529	1403	34.49	1437	
HP	Baspa HPS (IPP)	330	60	60	2.44	102	
	Malana HPS (IPP)	86	390	0	0.65	27	
	Other Hydro	589	390	437	9.90	413	
	Total HP	1005	840	497	13	541	
J & K	Baglihar HPS (IPP)	450	475	478	10.54	439	
	Other Hydro	323	140	133	3.31	138	
	Gas/Diesel/Others	183	0	0	0.00	0	
	Total J & K	956	615	611	13.85	577	
Total State Control Area Generation		31767	16332	15625	381.37	15704	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			2359	3970	76.23	3176	
Total Regional Availability(Gross)		53302	36100	32932	791.69	32801	

IV. Total Hydro Generation:

Regional Entities Hydro	10133	8054	4060	125.49	5229
State Control Area Hydro	5368	2836	2172	59.68	2487
Total Regional Hydro	15500	10890	6232	185.17	7715

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	100	500	0	4.26	0.00	4.26
Gwalior-Agra (D/C)	320	972	1131	0	18.53	0.00	18.53
Zerda-Kankroli	-114	-57	103	312	0.00	1.97	-1.97
Zerda-Bhinmal	-86	-47	143	246	0.00	1.17	-1.17
Malanpur-Auraiya	-102	-14	0	163	0.00	0.83	-0.83
Badod-Kota/Morak	16	56	79	0	1.08	0.00	1.08
Sub Total WR	234	1010			23.87	3.97	19.90
Pusauli Bypass	48	250	341	0	4.40	0.03	4.37
MZP- GKP (D/C)	600	814	920	0	17.63	0.00	17.63
Patna-Balia(D/C)	528	535	714	0	11.19	0.00	11.19
B'Sharif-Balia (D/C)	488	550	775	0	11.79	0.00	11.79
Barh - Balia(D/C)	324	655	681	0	8.75	0.00	8.75
Pusauli-Balia	0	0	6	0	0.01	0.00	0.01
Gaya-Fatehpur (765 Kv)	0	0	0	0	0.00	0.00	0.00
Pusauli-Sahupuri	129	128	149	0	2.97	0.00	2.97
K'nasa-Sahupuri	48	60	60	0	0.10	0.00	0.10
Son Ngr-Rihand	-40	-32	0	47	0.00	0.48	-0.48
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sub Total ER	2125	2960			56.84	0.51	56.33
Total IR Exch	2359	3970			80.71	4.48	76.23

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
35.82	0.46	36.28	-3.52	4.01	2.49	8.35	2.84	-2.84

Total IR Schedule (MU)			Total IR Actual (MU)			Net IR UI (MU)		
Through ER	Through WR	Total	Through ER	Through WR	Total	Through ER	Through WR	Total
38.09	7.05	45.14	56.33	19.90	76.23	18.24	12.85	31.09

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	0.40	6.70	26.60	93.00	73.10	10.00	0.30

<----- 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				
50.29	18.03	49.16	22.34	49.79	0.77	0.18	50.16	0.00

VII. Voltage profile

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	403	09:03	389	22:30	0.0	0.3	0.0	0.0
Gorakhpur	400	427	19:02	396	22:30	0.0	0.0	15.8	0.0
Bareilly	400	417	07:01	372	12:46	0.0	0.6	0.0	0.0
Kanpur	400	414	06:03	389	22:30	0.0	0.0	0.0	0.0
Dadri	400	412	08:55	397	11:29	0.0	0.0	0.0	0.0
Ballabgarh	400	419	06:59	397	11:32	0.0	0.0	0.0	0.0
Bawana	400	417	06:04	398	22:33	0.0	0.0	0.0	0.0
Bassi	400	423	03:59	398	13:55	0.0	0.0	2.0	0.0
Hissar	400	411	06:03	393	01:04	0.0	0.0	0.0	0.0
Moga	400	418	03:57	401	22:32	0.0	0.0	0.0	0.0
Abdullapur	400	418	06:03	400	09:35	0.1	0.1	0.0	0.0
Nalagarh	400	424	05:22	405	22:33	0.0	0.0	13.8	0.0
Kishenpur	400	415	03:57	400	19:44	0.0	0.0	0.0	0.0
Wagoora	400	408	03:35	385	20:37	0.0	11.9	0.0	0.0

VIII. 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 (m³/s)	Usage (m³/s)
Bhakra	513.59	445.62	471.82	293.24	481.49	495.33	403.12	571.60
Pong	426.72	384.05	403.05	288.96	411.14	534.70	69.77	175.11
Tehri	829.79	740.04	750.10	49.85	818.65	982.26	101.52	170.00
Koteshwar	612.50	598.50	609.50	4.95	NA	NA	170.00	166.00
Chamera-I	760.00	748.75	754.30	NA	NA	NA	249.72	195.95
Rihand	268.22	252.98	257.50	179.00	254.48	56.10	NA	NA
RPS	352.80	343.81	348.97	NA	NA	NA	NA	NA
Jawahar Sagar	298.70	295.78	298.21	NA	NA	NA	NA	NA
RSD	527.91	487.91	500.03	NA	51.08	NA	164.86	133.28

* NA: Not Available

IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

XI. Weather Conditions For 09.05.2012 :

1. Normal weather in NR.

XII. Synchronisation of new generating units :

XIII. Synchronisation of new 220 / 400 / 765 KV lines and energising of bus //substation :

XIV. Tripping of lines in pooling stations :

XV. Complete generation loss in a generating station :

Report for : 09.05.2012

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER