

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 09.04.2012
Date of Reporting : 10.04.2012

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
34242	2523	36765	49.91	28083	1050	29133	50.01	715.0	40.59

* 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	50.39	8.47		58.86	50.72	49.76	-0.96	108.62	2.58
Haryana	57.27	0.72		57.99	36.10	34.55	-1.55	92.54	2.44
Rajasthan	89.31	0.56	7.81	97.68	36.97	46.88	9.91	144.56	0.00
Delhi	31.35			31.35	54.41	45.19	-9.22	76.53	0.04
UP	94.51	8.22	11.40	114.13	85.78	95.28	9.50	209.41	30.96
Uttarakhand		11.77		11.77	11.38	15.61	4.23	27.38	1.98
HP		10.39		10.39	15.43	11.54	-3.88	21.93	0.28
J & K		13.53	0.00	13.53	16.41	16.25	-0.16	29.78	2.30
Chandigarh				0.00	4.21	4.26	0.05	4.26	0.00
Total	322.83	53.65	19.21	395.68	311.41	319.33	7.92	715.01	40.59

* 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	4894	450	21	-94	4153	0	-391	-94	-2.24
Haryana	4771	378	593	74	3126	0	-593	74	1.78
Rajasthan	6306	0	104	-341	5712	0	106	-341	-8.18
Delhi	3599	0	-387	252	2598	0	-253	252	6.05
UP	11095	1245	1171	265	9462	1050	1307	265	6.36
Uttarakhand	1005	300	-132	47	1070	0	248	47	1.14
HP	968	0	-218	-436	732	0	-180	-42	-3.68
J&K	1393	150	-87	-358	1101	0	72	-358	-8.60
Chandigarh	211	0	-16	0	129	0	-1	0	0.00
Total	34242	2523	1049	-590	28083	1050	315	-196	-7.38

* 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)	UI [OG:(+ve), UG: (-ve)]	
								Schedule Net MU	UI Net MU
A. NTPC	Singrauli STPS	2000	1460	1603	1593	35.56	1481	35.04	0.52
	Rihand I STPS	1000	905	987	992	21.75	906	21.33	0.42
	Rihand II STPS	1000	975	1049	1047	23.51	979	23.02	0.48
	Dadri I STPS	840	803	868	648	17.31	721	17.38	-0.08
	Dadri II STPS	980	470	487	492	11.13	464	11.16	-0.03
	Unchahar I TPS	440	398	437	435	9.48	395	9.47	0.01
	Unchahar II TPS	440	195	219	129	4.49	187	4.60	-0.11
	Unchahar III TPS	210	199	216	220	4.75	198	4.70	0.05
	ISTPP (Jhajjar)	1000	433	496	442	11.12	464	10.11	1.02
	Dadri GPS	830	780	762	779	16.66	694	16.50	0.16
	Anta GPS	419	390	392	403	8.44	352	8.21	0.23
	Auraiya GPS	663	608	293	316	7.01	292	6.84	0.16
	Sub Total (A)	9822	7615	7809	7496	171.19	7133	168.36	2.83
	B. NPC	NAPS	440	264	300	307	6.40	267	6.34
RAPS- B		440	409	451	459	9.84	410	9.82	0.02
RAPS- C		440	416	465	472	10.05	419	9.98	0.07
Sub Total (B)		1320	1089	1216	1238	26.29	1096	26.14	0.16
C. NHPC	Chamera I HPS	540	534	540	0	7.48	312	7.24	0.24
	Chamera II HPS	300	297	301	0	4.08	170	3.93	0.15
	Bairasuil HPS	180	179	179	179	3.53	147	3.50	0.04
	Salal-HPS	690	383	480	408	9.24	385	9.14	0.11
	Tanakpur-HPS	94	27	38	26	0.69	29	0.70	-0.01
	Uri-HPS	480	480	477	479	11.58	483	11.58	0.00
	Dhauliganga-HPS	280	277	284	0	1.63	68	1.42	0.21
	Dulhasti-HPS	390	388	418	0	7.11	296	7.01	0.11
	Sewa-II HPS	120	119	121	101	2.72	113	2.72	0.00
	Sub Total (C)	3074	2683	2838	1193	48.07	2003	47.23	0.85
D. NJPC	Nathpa Jhakri	1500	1600	1607	0	15.52	647	14.96	0.56
	Sub Total (D)	1500	1600	1607	0	15.52	647	14.96	0.56
E. THDC	Tehri HPS	1000	530	538	0	6.42	268	6.50	-0.08
	Koteshwar HPS	300	300	298	0	2.83	118	2.80	0.03
	Sub Total (E)	1300	830	836	0	9.25	386	9.30	-0.05
F. BBMB	Bhakra HPS	1480	573	884	408	13.89	579	13.75	0.14
	Dehar HPS	990	327	660	165	8.48	353	7.85	0.63
	Pong HPS	396	34	180	0	0.90	38	0.81	0.09
	Sub Total (F)	2866	934	1724	573	23.27	970	22.42	0.85
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	172	0	1.36	57	1.31	0.06
	KWHEP HPS(IPP)	1000	0	800	225	8.14	339	8.26	-0.12
	Malana Stg-II HPS	100	0	0	0	0.00	0	0.00	0.00
	Shree Cement TPS	300	0	117	216	3.67	153	4.20	-0.53
	Sub Total (G)	1592	0	1089	441	13.18	549	13.77	-0.60
H. Total Regional Entities (A-G)	21475	14751	17119	10941	306.77	12782	302.18	4.60	

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	1250	1260	27.54	1147	
	Guru Nanak Dev TPS(Bhatinda)	440	90	105	2.01	84	
	Guru Hargobind Singh TPS(L.mbt)	920	961	945	20.84	868	
	Thermal (Total)	2620	2301	2310	50.39	2100	
	Total Hydro	1148	271	226	8.47	353	
	Total Punjab	3768	2572	2536	58.86	2452	
Haryana	Panipat TPS	1360	1009	1016	24.28	1012	
	DCRTPP (Yamuna nagar)	600	0	0	0.00	0	
	Faridabad GPS (NTPC)	432	372	392	9.01	375	
	RGTPP (kheldar) (IPP)	1200	894	993	23.99	999	
	Magnum Diesel (IPP)	25	0	0	0.00	0	
	Jhajjar(CLP)	660	0	0	0.00	0	
	Thermal (Total)	4277	2275	2401	57.27	2386	
	Total Hydro	62	12	18	0.72	30	
	Total Haryana	4339	2287	2419	57.99	2416	
Rajasthan	kota TPS	1240	966	1097	23.34	972	
	suratgarh TPS	1500	1379	1381	32.09	1337	
	Chabra TPS	500	352	221	6.09	254	
	Dholpur GPS	330	242	236	5.24	219	
	Ramgarh GPS	113	21	21	0.42	17	
	RAPS A (NPC)	300	183	182	4.51	188	
	Barsingsar (NLC)	250	201	202	4.88	203	
	Giral LTPS (IPP)	250	60	138	1.89	79	
	Rajwest LTPS (IPP)	540	465	465	10.85	452	
	VSLP LTPS (IPP)	135	0	0	0.00	0	
	Thermal (Total)	5158	3869	3943	89.31	3721	
	Total Hydro	550	23	0	0.56	23	
	Wind power	1294	199	538	6.75	281	
	Biomass	71	44	44	1.06	44	
	Solar	50	0	0	0.00	0	
	Renewable/Others (Total)	1365	243	582	7.81	325	
	Total Rajasthan	7073	4135	4525	97.68	4070	
	UP	Anpara TPS	1630	1381	1391	29.30	1221
		Obra TPS	1442	526	524	11.30	471
Paricha TPS		640	430	437	9.40	392	
Panki TPS		210	150	180	3.50	146	
Harduaganj TPS		415	36	36	0.80	33	
Tanda TPS (NTPC)		440	294	286	7.14	297	
Roza TPS (IPP)		900	824	829	18.94	789	
Anpara-C (IPP)		1200	425	315	8.33	347	
Bajaj Energy Pvt.Ltd(IPP) TPS		180	239	235	5.81	242	
Thermal (Total)		7057	4305	4233	94.51	3938	
Vishnuparyag HPS (IPP)		400	129	129	3.01	125	
Other Hydro		527	248	0	5.21	217	
Cogeneration		951	400	550	11.40	475	
Total UP		8935	5082	4912	114.13	4630	
Uttarakhand	Total Hydro	1303	545	430	11.77	490	
	Total Uttarakhand	1303	545	430	11.77	490	
Delhi	Rajghat TPS	135	103	103	2.60	108	
	Delhi Gas Turbine	282	185	113	3.25	135	
	Pragati Gas Turbine	330	285	271	6.85	285	
	Rithala GPS	108	32	33	0.80	33	
	Bawana GPS	440	288	63	6.25	260	
	Badarpur TPS (NTPC)	705	565	485	11.60	483	
	Thermal (Total)	2000	1458	1265	31.35	1306	
	Total Delhi	2000	1458	1265	31.35	1306	
HP	Baspa HPS (IPP)	330	75	94	1.43	59	
	Malana HPS (IPP)	101	45	14	0.57	24	
	Other Hydro	571	411	352	8.39	350	
	Total HP	1002	531	460	10	433	
J & K	Baglihar HPS (IPP)	450	440	436	10.52	438	
	Other Hydro	323	120	128	3.01	125	
	Gas/Diesel/Others	183	0	0	0.00	0	
	Total J & K	956	560	564	13.53	564	
Total State Control Area Generation		29376	17170	17111	395.68	16362	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			2718	2061	43.72	1822	
Total Regional Availability(Gross)		50851	37007	30113	746.18	30966	

IV. Total Hydro Generation:

Regional Entities Hydro	10033	7977	1991	105.62	4401
State Control Area Hydro	5365	2190	1698	50.64	2110
Total Regional Hydro	15397	10167	3689	156.25	6511

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	0	-100	0	400	0.00	1.78	-1.78
Gwalior-Agra (D/C)	700	717	1091	0	16.08	0.00	16.08
Zerda-Kankroli	-66	-231	0	327	0.00	4.23	-4.23
Zerda-Bhinmal	-65	-235	34	362	0.00	3.47	-3.47
Malanpur-Auraiya	-14	-43	0	133	0.00	0.99	-0.99
Badod-Kota/Morak	62	-17	62	112	0.00	0.46	-0.46
Sub Total WR	617	91			16.08	10.93	5.15
Pusauli Bypass	97	75	173	203	1.15	0.65	0.50
MZP- GKP (D/C)	630	483	776	0	12.17	0.00	12.17
Patna-Balia(D/C)	428	327	491	0	8.95	0.00	8.95
B'Sharif-Balia (D/C)	429	551	675	0	9.08	0.00	9.08
Barh - balia(D/C)	296	343	353	0	3.93	0.00	3.93
Pusauli-Sahupuri	199	164	199	0	3.61	0.00	3.61
K'nasa-Sahupuri	64	65	80	0	1.30	0.00	1.30
Son Ngr-Rihand	-42	-38	0	48	0.00	0.96	-0.96
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sub Total ER	2101	1970			40.19	1.62	38.57
Total IR Exch	2718	2061			56.27	12.54	43.72

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
28.00	0.41	28.40	-9.90	2.79	4.62	3.55	1.68	-1.68

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
24.80	-2.16	22.65	38.57	5.15	43.72	13.77	7.31	21.08

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	1.10	2.80	15.20	95.10	82.70	18.40	2.10

<----- Frequency (Hz) ----->				Average Frequency Hz	Frequency Variation Index	Std. Dev.	Frequency in 15 Min Block	
Maximum		Minimum					MAX (Hz)	MIN (Hz)
Freq	Time	Freq	Time					
50.41	7.06	49.10	23.06	49.86	0.32	0.17	50.39	49.39

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	414	07:05	394	18:24	0.0	0.0	0.0	0.0
Gorakhpur	400	438	07:06	398	18:26	0.0	0.0	52.9	9.4
Bareilly	400	427	07:08	390	19:10	0.0	0.0	2.4	0.0
Kanpur	400	422	07:06	393	18:55	0.0	0.0	0.4	0.0
Dadri	400	423	07:04	395	19:08	0.0	0.0	6.4	0.0
Ballabgarh	400	426	07:05	397	19:07	0.0	0.0	20.8	0.0
Bawana	400	425	03:32	396	19:07	0.0	0.0	22.0	0.0
Bassi	400	426	03:32	399	19:07	0.0	0.0	12.8	0.0
Hissar	400	416	03:34	391	19:08	0.0	0.0	0.0	0.0
Moga	400	428	03:33	403	19:07	0.0	0.0	14.4	0.0
Abdullapur	400	426	03:35	218	10:38	0.2	0.2	20.0	0.0
Nalagarh	400	431	03:32	402	19:07	0.0	0.0	26.4	2.5
Kishenpur	400	425	03:40	397	19:09	0.0	0.0	7.7	0.0
Wagoora	400	416	03:49	385	19:43	0.0	10.3	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	474.82	350.94	484.37	577.33	339.43	462.84
Pong	426.72	384.05	402.84	288.96	410.14	504.32	43.86	59.66
Tehri	829.79	740.04	764.85	154.42	818.65	982.26	76.96	193.00
Koteshwar	612.50	598.50	609.80	4.44	NA	NA	196.00	188.00
Chamera-I	760.00	748.75	754.87	NA	NA	NA	200.71	202.47
Rihand	268.22	252.98	259.32	268.20	255.15	82.20	NA	NA
RPS	352.80	343.81	347.65	NA	NA	NA	NA	NA
Jawahar Sagar	298.70	295.78	298.16	NA	NA	NA	NA	NA
RSD	527.91	487.91	496.38	NA	504.81	NA	231.34	186.32

* NA: Not Available

IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

XI. Weather Conditions For 09.04.2012 :

1. Normal

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 : 09.04.2012

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER