

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 10.04.2012
Date of Reporting : 11.04.2012

I. Regional Availability/Demand:

Demand Met	Evening Peak (20:00 Hrs) MW			Demand Met	Off Peak (03:00 Hrs) MW			Day Energy (Net MU)	
	Shortage	Requirement	Freq* (Hz)		Shortage	Requirement	Freq* (Hz)	Demand Met	Shortage
29091	775	29866	50.15	29235	930	30165	50.07	684.2	28.49

* 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	50.43	6.33		56.75	46.15	46.98	0.82	103.73	1.91
Haryana	55.40	0.63		56.02	30.91	28.03	-2.88	84.05	0.24
Rajasthan	87.85	0.49	8.00	96.34	36.71	47.39	10.68	143.73	0.00
Delhi	29.82			29.82	53.82	45.12	-8.70	74.95	0.00
UP	93.79	7.86	9.60	111.25	86.25	88.25	2.00	199.50	22.26
Uttarakhand		11.20		11.20	10.63	15.77	5.13	26.97	1.24
HP		10.61		10.61	15.12	11.76	-3.36	22.37	0.55
J & K		13.53	0.00	13.53	16.29	11.36	-4.93	24.88	2.30
Chandigarh				0.00	4.28	4.07	-0.21	4.07	0.00
Total	317.29	50.64	17.60	385.52	300.15	298.71	-1.44	684.24	28.49

* 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	4683	450	353	-94	4319	0	-179	-94	-2.24
Haryana	3194	0	-417	74	3665	0	-1	74	1.78
Rajasthan	6262	0	245	-290	6085	0	425	-290	-6.96
Delhi	3129	0	-212	245	2728	0	-698	245	5.88
UP	8381	0	-1525	265	9741	930	1756	265	6.36
Uttarakhand	943	150	-182	-3	1133	0	361	-3	-0.08
HP	950	25	-170	-436	764	0	-99	-42	-3.68
J&K	1352	150	-13	-358	666	0	-417	-358	-8.60
Chandigarh	197	0	-59	0	134	0	3	0	0.00
Total	29091	775	-1980	-597	29235	930	1151	-203	-7.55

* 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	1458	1592	1592	35.70	1487	35.00	0.69
	Rihand I STPS	1000	905	910	995	21.01	875	20.64	0.37
	Rihand II STPS	1000	975	980	1042	22.83	951	22.28	0.55
	Dadri I STPS	840	803	608	871	16.49	687	16.84	-0.36
	Dadri II STPS	980	470	395	488	10.42	434	10.76	-0.34
	Unchahar I TPS	440	404	348	439	9.06	377	9.06	0.00
	Unchahar II TPS	440	200	183	221	4.53	189	4.35	0.18
	Unchahar III TPS	210	199	201	219	4.43	184	4.37	0.05
	ISTPP (Jhajjar)	1000	477	364	507	10.06	419	10.42	-0.36
	Dadri GPS	830	786	497	764	14.79	616	15.12	-0.33
	Anta GPS	419	390	251	375	7.72	322	7.62	0.10
	Auraiya GPS	663	610	332	311	7.55	315	7.33	0.22
	Sub Total (A)	9822	7678	6661	7824	164.58	6857	163.79	0.78
	B. NPC	NAPS	440	266	315	308	6.46	269	6.38
RAPS- B		440	412	443	460	9.77	407	9.89	-0.12
RAPS- C		440	416	467	470	10.09	420	9.98	0.10
Sub Total (B)		1320	1094	1225	1238	26.31	1096	26.25	0.06
C. NHPC	Chamera I HPS	540	534	540	0	7.48	312	7.29	0.19
	Chamera II HPS	300	297	288	0	4.27	178	4.04	0.22
	Bairasuil HPS	180	179	179	80	3.66	152	3.54	0.11
	Salal-HPS	690	376	391	350	9.58	399	8.59	0.98
	Tanakpur-HPS	94	29	34	29	0.71	29	0.71	-0.01
	Uri-HPS	480	480	478	478	11.57	482	11.57	0.00
	Dhauliganga-HPS	280	277	278	0	1.81	76	1.79	0.02
	Dulhasti-HPS	390	388	355	113	7.33	306	7.35	-0.02
	Sewa-II HPS	120	119	121	118	2.73	114	2.79	-0.07
	Sub Total (C)	3074	2678	2664	1168	49.12	2047	47.68	1.44
D. NJPC	Nathpa Jhakri	1500	1600	1601	0	15.09	629	15.23	-0.14
	Sub Total (D)	1500	1600	1601	0	15.09	629	15.23	-0.14
E. THDC	Tehri HPS	1000	519	180	0	5.33	222	6.00	-0.67
	Koteshwar HPS	300	279	0	0	1.89	79	2.70	-0.81
	Sub Total (E)	1300	798	180	0	7.23	301	8.70	-1.48
F. BBMB	Bhakra HPS	1480	466	913	381	11.39	475	11.19	0.20
	Dehar HPS	990	313	660	145	7.77	324	7.52	0.26
	Pong HPS	396	28	180	0	0.65	27	0.66	-0.01
	Sub Total (F)	2866	807	1753	526	19.81	825	19.37	0.44
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	141	0	1.07	45	1.04	0.04
	KWHEP HPS(IPP)	1000	0	800	225	8.14	339	8.88	-0.74
	Malana Stg-II HPS	100	0	0	0	0.00	0	0.00	0.00
	Shree Cement TPS	300	0	117	87	2.67	111	3.39	-0.73
	Sub Total (G)	1592	0	1058	312	11.88	495	13.31	-1.43
H. Total Regional Entities (A-G)	21475	14655	15142	11068	294.02	12251	294.34	-0.33	

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	1180	1250	26.74	1114	
	Guru Nanak Dev TPS(Bhatinda)	440	195	80	3.61	150	
	Guru Hargobind Singh TPS(L.mbt)	920	810	960	20.08	837	
	Thermal (Total)	2620	2185	2290	50.43	2101	
	Total Hydro	1148	180	243	6.33	264	
	Total Punjab	3768	2365	2533	56.75	2365	
Haryana	Panipat TPS	1360	932	1025	24.34	1014	
	DCRTPP (Yamuna nagar)	600	0	0	0.00	0	
	Faridabad GPS (NTPC)	432	284	347	7.61	317	
	RGTPP (khedar) (IPP)	1200	915	952	22.98	958	
	Magnum Diesel (IPP)	25	0	0	0.00	0	
	Jhajjar(CLP)	660	30	0	0.46	19	
	Thermal (Total)	4277	2161	2324	55.40	2308	
	Total Hydro	62	11	14	0.63	26	
	Total Haryana	4339	2172	2338	56.02	2334	
Rajasthan	kota TPS	1240	1022	967	23.53	980	
	suratgarh TPS	1500	1039	1379	26.90	1121	
	Chabra TPS	500	392	408	9.23	384	
	Dholpur GPS	330	210	142	4.64	193	
	Ramgarh GPS	111	21	21	0.44	18	
	RAPS A (NPC)	300	180	184	4.48	187	
	Barsingsar (NLC) IPP	250	220	213	5.07	211	
	Giral LTPS	250	58	60	2.14	89	
	Rajwest LTPS (IPP)	540	458	465	11.42	476	
	VSLP LTPS (IPP)	135	0	0	0.00	0	
	Thermal (Total)	5156	3600	3839	87.85	3660	
	Total Hydro	550	66	0	0.49	20	
	Wind power	1843	214	504	7.07	294	
	Biomass	91	39	39	0.94	39	
	Solar	128	0	0	0.00	0	
	Renewable/Others (Total)	1934	253	543	8.00	333	
	Total Rajasthan	7640	3919	4382	96.34	4014	
	UP	Anpara TPS	1630	1370	1317	28.10	1171
		Obra TPS	1382	538	579	11.40	475
		Paricha TPS	640	426	436	9.30	388
Panki TPS		210	145	160	3.20	133	
Harduaganj TPS		415	0	36	0.60	25	
Tanda TPS (NTPC)		440	237	296	7.61	317	
Roza TPS (IPP)		1200	676	827	18.17	757	
Anpara-C (IPP)		1200	393	423	10.27	428	
Bajaj Energy Pvt.Ltd(IPP) TPS		450	212	205	5.14	214	
Thermal (Total)		7567	3997	4279	93.79	3908	
Vishnuparyag HPS (IPP)		400	144	124	3.12	130	
Other Hydro		527	202	0	4.74	197	
Cogeneration		981	400	400	9.60	400	
Total UP		9475	4743	4803	111.25	4505	
Uttarakhand		Total Hydro	1303	529	417	11.20	467
	Total Uttarakhand	1303	529	417	11.20	467	
Delhi	Rajghat TPS	135	103	105	2.65	110	
	Delhi Gas Turbine	282	185	109	3.68	153	
	Pragati Gas Turbine	330	285	293	6.98	291	
	Rithala GPS	108	32	35	0.85	35	
	Bawana GPS	440	288	46	4.46	186	
	Badarpur TPS (NTPC)	705	500	490	11.21	467	
	Thermal (Total)	2000	1393	1301	29.82	1243	
	Total Delhi	2000	1393	1301	29.82	1243	
HP	Baspa HPS (IPP)	330	108	59	1.41	59	
	Malana HPS (IPP)	101	43	13	0.67	28	
	Other Hydro	571	342	371	8.53	355	
	Total HP	1002	493	443	11	442	
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		30483	16174	16781	385.52	15933	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			1146	2487	32.74	1364	
Total Regional Availability(Gross)		51958	32462	30336	712.28	29548	

IV. Total Hydro Generation:

Regional Entities Hydro	10033	7139	1919	100.46	4186
State Control Area Hydro	5365	2041	1681	47.51	1980
Total Regional Hydro	15397	9180	3600	147.98	6166

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	-200	0	200	0.00	4.37	-4.37
Gwalior-Agra (D/C)	258	854	913	97	11.71	0.00	11.71
Zerda-Kankroli	-235	-146	0	435	0.00	5.08	-5.08
Zerda-Bhinmal	-221	-158	0	472	0.00	4.44	-4.44
Malanpur-Auraiya	-112	-13	0	199	0.00	1.70	-1.70
Badod-Kota/Morak	20	13	35	31	0.12	0.00	0.12
Sub Total WR	-490	350			11.83	15.58	-3.75
Pusauli Bypass	20	257	275	265	2.39	0.93	1.46
MZP- GKP (D/C)	478	429	868	0	11.49	0.00	11.49
Patna-Balia(D/C)	310	362	460	0	8.04	0.00	8.04
B'Sharif-Balia (D/C)	293	551	581	0	6.99	0.00	6.99
Barh - balia(D/C)	343	344	414	0	4.35	0.00	4.35
Pusauli-Sahupuri	170	167	188	0	3.82	0.00	3.82
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	1636	2137			38.38	1.89	36.49
Total IR Exch	1146	2487			50.21	17.47	32.74

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
25.68	0.52	26.20	-10.07	2.96	4.74	2.16	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
22.55	-3.59	18.96	36.49	-3.75	32.74	13.94	-0.16	13.78

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	0.87	82.75	81.88	60.24	17.25

<----- 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					
50.54	17.02	49.64	0.19	50.06	0.38	0.19	50.51	49.76

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	432	10:09	16	10:22	1.9	1.9	3.3	1.7
Gorakhpur	400	434	17:02	10	18:03	0.0	0.0	42.6	2.0
Bareilly	400	428	17:10	349	18:55	0.1	0.1	11.8	0.0
Kanpur	400	423	17:01	400	18:41	0.0	0.0	1.0	0.0
Dadri	400	428	17:11	403	14:28	0.0	0.0	5.6	0.0
Ballabgarh	400	432	17:13	406	12:12	0.0	0.0	19.5	0.6
Bawana	400	431	17:13	407	12:10	0.0	0.0	16.0	0.1
Bassi	400	427	16:56	403	14:17	0.0	0.0	14.1	0.0
Hissar	400	417	17:00	399	12:12	0.0	0.0	0.0	0.0
Moga	400	424	02:53	406	10:41	0.0	0.0	10.2	0.0
Abdullapur	400	424	03:05	299	07:46	0.1	0.1	31.7	0.0
Nalagarh	400	427	02:52	407	18:58	0.0	0.0	19.5	0.0
Kishenpur	400	426	03:28	394	19:31	0.0	0.0	5.9	0.0
Wagoora	400	420	03:28	383	19:44	0.0	14.7	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 10.04.2012 :

1. Rains & Dust storm in NCR Wst Up , Haryana, Raj J & K , HP ,

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 : 10.04.2012

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER