

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 13.02.2012
Date of Reporting : 14.02.2012

I. Regional Availability/Demand:

Evening Peak (19:00 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
31822	2679	34501	49.97	25682	670	26352	50.41	709.0	39.70

* 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	47.98	9.56		57.54	41.94	42.78	0.84	100.32	3.10
Haryana	56.23	0.54		56.78	29.48	41.36	11.88	98.13	4.02
Rajasthan	95.59	5.17	10.59	111.36	47.44	52.10	4.66	163.45	0.66
Delhi	24.86			24.86	42.23	35.58	-6.66	60.43	0.13
UP	89.95	5.20	14.40	109.55	86.88	90.46	3.58	200.01	28.11
Uttarakhand		9.60		9.60	18.31	19.74	1.42	29.33	1.07
HP		4.11		4.11	19.90	19.78	-0.12	23.89	0.34
J & K		5.16	0.00	5.16	25.87	24.64	-1.23	29.80	2.30
Chandigarh				0.00	3.63	3.59	-0.04	3.59	0.00
Total	314.61	39.34	24.99	378.95	315.67	330.01	14.34	708.96	39.70

* 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 (19:00 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	4528	200	112	-287	3790	0	261	-401	-6.62
Haryana	4239	612	570	-127	3520	0	125	-129	-3.09
Rajasthan	6421	0	-180	37	6472	0	466	87	4.87
Delhi	3244	2	237	-136	1352	0	-556	-413	-5.26
UP	9111	1635	689	265	7604	670	-345	265	6.36
Uttarakhand	1472	70	78	355	990	0	44	355	8.52
HP	1122	10	-296	103	665	0	12	323	6.53
J&K	1491	150	-101	248	1198	0	75	261	5.80
Chandigarh	195	0	-23	0	91	0	0	-41	-0.33
Total	31822	2679	1086	459	25682	670	82	307	16.79

* 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	1765	1889	1797	42.39	1766	42.20
	Rihand I STPS	1000	920	1003	854	21.40	892	21.71	-0.31
	Rihand II STPS	1000	977	1042	854	22.95	956	22.96	-0.01
	Dadri I STPS	840	798	862	633	16.41	684	16.45	-0.05
	Dadri II STPS	980	976	1014	764	21.40	892	21.94	-0.54
	Unchahar I TPS	440	406	436	400	9.57	399	9.63	-0.06
	Unchahar II TPS	440	404	441	368	9.43	393	9.47	-0.04
	Unchahar III TPS	210	202	220	175	4.69	195	4.71	-0.02
	ISTPP (Jhajjar)	1000	480	487	392	10.19	425	10.99	-0.80
	Dadri GPS	830	696	621	549	12.31	513	12.40	-0.09
	Anta GPS	419	429	303	314	7.91	330	7.89	0.02
	Auraiya GPS	663	658	392	420	10.53	439	10.48	0.05
	Sub Total (A)	9822	8711	8710	7520	189.18	7882	190.83	-1.65
B. NPC	NAPS	440	139	158	161	3.33	139	3.34	0.00
	RAPS- B	440	412	471	451	9.82	409	9.88	-0.05
	RAPS- C	440	420	452	478	10.24	427	10.08	0.16
	Sub Total (B)	1320	971	1081	1090	23.39	975	23.29	0.10
C. NHPC	Chamera I HPS	540	534	540	0	2.68	111	2.61	0.06
	Chamera II HPS	300	297	225	0	1.56	65	1.57	-0.01
	Bairasuil HPS	180	120	120	0	1.07	45	1.24	-0.17
	Salal-HPS	690	183	321	120	5.19	216	4.91	0.28
	Tanakpur-HPS	94	26	29	18	0.54	22	0.56	-0.02
	Uri-HPS	480	203	235	78	4.56	190	4.59	-0.03
	Dhauliganga-HPS	280	210	209	0	0.69	29	0.68	0.01
	Dulhasti-HPS	390	388	278	0	3.45	144	2.32	1.13
	Sewa-II HPS	120	119	77	0	1.93	80	2.05	-0.12
	Sub Total (C)	3074	2079	2034	216	21.66	903	20.53	1.13
D. NJPC	Nathpa Jhakri	1500	1200	1603	0	7.18	299	7.27	-0.09
	Sub Total (D)	1500	1200	1603	0	7.18	299	7.27	-0.09
E. THDC	Tehri HPS	1000	910	917	0	8.60	358	8.75	-0.15
	Koteshwar HPS	200	300	288	0	3.33	139	3.30	0.03
	Sub Total (E)	1200	1210	1205	0	11.93	497	12.05	-0.12
F. BBMB	Bhakra HPS	1480	777	965	567	19.08	795	18.64	0.44
	Dehar HPS	990	97	495	0	2.98	124	2.33	0.65
	Pong HPS	396	207	306	126	5.32	222	4.97	0.35
	Sub Total (F)	2866	1081	1766	693	27.38	1141	25.94	1.44
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	0	0	0.25	10	0.24	0.01
	KWHEP HPS(IPP)	1000	0	535	0	3.37	140	3.36	0.01
	Malana Stg-II HPS	100	0	0	0	0.00	0	0.00	0.00
	Shree Cement TPS	150	0	143	142	3.44	143	3.40	0.04
	Sub Total (G)	1442	0	678	142	7.05	294	6.99	0.06
H. Total Regional Entities (A-G)		21225	15251	17077	9661	287.77	11990	286.90	0.87

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	1045	900	22.82	951
	Guru Nanak Dev TPS(Bhatinda)	440	218	202	4.44	185
	Guru Hargobind Singh TPS(L.mbt)	920	962	787	20.73	864
	Thermal (Total)	2620	2225	1889	47.98	1999
	Total Hydro	1148	368	313	9.56	398
	Total Punjab	3768	2593	2202	57.54	2398
Haryana	Panipat TPS	1360	809	801	19.60	817
	DCRTPP (Yamuna nagar)	600	0	278	3.07	128
	Faridabad GPS (NTPC)	432	419	377	10.05	419
	RGTPP (kheldar) (IPP)	1200	869	897	23.51	980
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	660	0	0	0.00	0
	Thermal (Total)	4277	2097	2353	56.23	2343
	Total Hydro	62	23	23	0.54	23
	Total Haryana	4339	2120	2376	56.78	2366
Rajasthan	kota TPS	1240	1155	1052	26.37	1099
	suratgarh TPS	1500	1105	1240	30.75	1281
	Chabra TPS	500	416	387	9.98	416
	Dholpur GPS	330	225	244	5.49	229
	Ramgarh GPS	113	42	45	1.09	45
	RAPS A (NPC)	300	184	193	4.68	195
	Barsingsar (NLC)	250	230	192	5.17	215
	Giral LTPS (IPP)	250	54	69	1.33	55
	Rajwest LTPS (IPP)	540	455	410	10.74	447
	VSLP LTPS (IPP)	135	0	0	0.00	0
	Thermal (Total)	5158	3866	3832	95.59	3983
	Total Hydro	550	205	220	5.17	215
	Wind power	1294	52	282	4.17	174
	Biomass	71	52	52	1.26	52
	Solar	50	0	0	0.00	0
	Renewable/Others (Total)	1365	104	334	10.59	441
	Total Rajasthan	7073	4175	4386	111.36	4640
UP	Anpara TPS	1630	1546	1569	33.20	1383
	Obra TPS	1442	662	650	14.10	588
	Paricha TPS	640	260	253	5.60	233
	Panki TPS	210	75	78	1.80	75
	Harduaganj TPS	415	299	292	6.00	250
	Tanda TPS (NTPC)	440	297	192	6.54	272
	Roza TPS (IPP)	900	279	553	11.47	478
	Anpara-C (IPP)	1200	396	396	9.57	399
	Bajaj Energy Pvt.Ltd(IPP) TPS	180	72	63	1.67	70
	Thermal (Total)	7057	3886	4046	89.95	3748
	Vishnuparyag HPS (IPP)	400	73	69	1.53	64
	Other Hydro	527	236	37	3.67	153
	Cogeneration	951	600	600	14.40	600
	Total UP	8935	4795	4752	109.55	4501
Uttarakhand	Total Hydro	1303	522	324	9.60	400
	Total Uttarakhand	1303	522	324	9.60	400
Delhi	Rajghat TPS	135	104	98	2.74	114
	Delhi Gas Turbine	282	82	80	1.97	82
	Pragati Gas Turbine	330	149	264	4.16	173
	Rithala GPS	108	19	19	0.32	13
	Bawana GPS	440	147	45	4.42	184
	Badarpur TPS (NTPC)	705	475	565	11.24	468
	Thermal (Total)	2000	976	1199	24.86	1036
	Total Delhi	2000	976	1199	24.86	1036
HP	Baspa HPS (IPP)	330	0	0	1.01	42
	Malana HPS (IPP)	101	44	0	0.18	7
	Other Hydro	571	155	60	2.93	122
	Total HP	1002	199	60	4	171
J & K	Baglihar HPS (IPP)	450	148	122	3.14	131
	Other Hydro	323	83	126	2.02	84
	Gas/Diesel/Others	183	0	0	0.00	0
	Total J & K	956	231	248	5.16	215
Total State Control Area Generation		29376	15611	15547	378.95	15726
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			615	1662	54.58	2274
Total Regional Availability(Gross)		50601	33303	26870	721.29	29990

IV. Total Hydro Generation:

Regional Entities Hydro	10083	7286	1051	75.20	3133
State Control Area Hydro	5365	1784	1225	37.81	1575
Total Regional Hydro	15447	9070	2276	113.01	4709

V(A). Inter Regional Exchange [Import (+ve)/Export (-ve)] [Linkwise]

Element	Peak(19:00 Hrs)	Off Peak(03:00 Hrs)	Maximum Interchange (MW)		Energy (MU)		Net Energy MU
	MW	MW	Import	Export	Import	Export	
Vindhychal B/B	-100	0	100	100	0.79	0.87	-0.09
Gwalior-Agra (D/C)	280	750	1148	0	19.72	0.00	19.72
Zerda-Kankroli	-168	-150	40	181	0.00	1.56	-1.56
Zerda-Bhinmal	-100	-48	195	133	0.85	0.00	0.85
Malanpur-Auraiya	-122	-98	0	138	0.00	1.67	-1.67
Badod-Kota/Morak	-4	29	51	4	0.60	0.00	0.60
Sub Total WR	-214	483			21.96	4.10	17.85
Pusauli Bypass	-113	74	249	113	1.99	0.19	1.80
MZP- GKP (D/C)	314	392	880	0	13.24	0.00	13.24
Patna-Balia(D/C)	180	396	537	0	7.90	0.00	7.90
B'Sharif-Balia (D/C)	148	240	450	0	6.71	0.00	6.71
Barh - balia(D/C)	208	0	472	0	5.46	0.00	5.46
Pusauli-Sahupuri	122	109	159	0	2.56	0.00	2.56
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-30	-32	0	48	0.00	0.95	-0.95
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sub Total ER	829	1179			37.86	1.14	36.72
Total IR Exch	615	1662			59.82	5.24	54.58

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
22.49	0.16	22.65	7.84	10.45	0.45	12.63	2.81	-2.81

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
33.74	13.72	47.46	36.72	17.85	54.58	2.98	4.14	7.12

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	1.00	12.40	88.70	77.30	35.90	10.30

<----- 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					
50.44	3.29	49.40	6.39	49.93	0.46	0.20	50.48	49.73

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	411	03:11	397	14:43	0.0	0.0	0.0	0.0
Gorakhpur	400	432	20:03	407	06:37	0.0	0.0	53.2	3.3
Bareilly	400	420	01:06	401	09:42	0.0	0.0	0.0	0.0
Kanpur	400	422	03:15	395	14:38	0.0	0.0	6.1	0.0
Dadri	400	426	02:56	399	14:42	0.0	0.0	17.9	0.0
Ballabgarh	400	431	03:29	402	15:36	0.0	0.0	19.6	0.0
Bawana	400	431	02:59	401	14:43	0.0	0.0	25.7	1.5
Bassi	400	421	20:01	395	10:44	0.0	0.0	0.4	0.0
Hissar	400	414	20:51	390	14:44	0.0	0.0	0.0	0.0
Moga	400	428	03:02	399	14:47	0.0	0.0	30.5	0.0
Abdullapur	400	428	02:56	400	14:46	0.0	0.0	17.8	0.0
Nalagarh	400	425	20:48	406	10:20	0.0	0.0	14.2	0.0
Kishenpur	400	427	05:05	382	15:31	0.0	1.7	15.1	0.0
Wagoora	400	428	13:02	0	12:51	4.1	23.7	0.5	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	492.39	808.03	496.31	948.89	174.40	577.50
Pong	426.72	384.05	410.01	494.27	413.39	611.20	99.14	338.50
Tehri	829.79	740.04	792.10	483.10	818.65	982.26	50.39	219.00
Koteshwar	612.50	598.50	608.60	3.98	NZ	NA	224.00	269.00
Chamera-I	760.00	748.75	754.06	NA	NA	NA	88.30	72.46
Rihand	268.22	252.98	262.80	435.50	256.30	131.20	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	500.86	NA	504.02	NA	65.44	211.36

* NA: Not Available

IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

XI. Weather Conditions For 13.02.2012 :

1. Rains & Snow in J & K , HP .rest NR cold normal weather.

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 : 13.02.2012

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER