

पावर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 09.02.2012
Date of Reporting : 10.02.2012

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
31730	2991	34721	49.67	27113	650	27763	50.15	722.3	50.81

* 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	49.55	12.28		61.83	37.94	42.80	4.86	104.63	1.80
Haryana	54.82	0.66		55.48	23.49	41.18	17.70	96.66	14.31
Rajasthan	90.26	4.67	7.19	102.12	47.25	57.12	9.87	159.24	1.99
Delhi	29.84			29.84	42.54	33.42	-9.12	63.26	0.14
UP	91.20	6.64	14.40	112.24	82.74	92.16	9.42	204.40	29.32
Uttarakhand		10.35		10.35	19.19	20.15	0.97	30.50	1.25
HP		4.09		4.09	19.28	20.30	1.02	24.39	0.10
J & K		4.97	0.00	4.97	25.09	30.53	5.43	35.49	1.90
Chandigarh				0.00	3.49	3.68	0.19	3.68	0.00
Total	315.69	43.65	21.59	380.92	301.01	341.34	40.33	722.26	50.81

* 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	STOA/PX transaction
Punjab	4474	600	35	-287	4067	0	344	-401	-6.62
Haryana	3924	1000	509	-127	3813	0	783	-127	-3.05
Rajasthan	6815	69	588	-3	6258	0	532	197	6.76
Delhi	3281	2	-353	-106	1411	0	-398	-378	-4.41
UP	8715	1070	-141	265	8233	650	514	265	6.36
Uttarakhand	1528	150	95	395	1037	0	-23	395	9.48
HP	1140	0	-260	123	785	0	140	323	6.15
J&K	1646	100	119	248	1413	0	264	255	5.68
Chandigarh	207	0	-9	0	96	0	10	-41	-0.33
Total	31730	2991	582	509	27113	650	2166	488	20.02

* 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
A. NTPC	Singrauli STPS	2000	1765	1890	1892	42.81	1784	42.23	0.58
	Rihand I STPS	1000	915	996	991	22.14	922	21.87	0.27
	Rihand II STPS	1000	977	1040	1039	22.60	942	23.32	-0.72
	Dadri I STPS	840	798	852	602	17.74	739	17.79	-0.05
	Dadri II STPS	980	976	1022	721	21.79	908	22.01	-0.22
	Unchahar I TPS	440	406	440	362	9.34	389	9.19	0.15
	Unchahar II TPS	440	404	441	324	9.38	391	9.15	0.23
	Unchahar III TPS	210	202	222	155	4.65	194	4.56	0.09
	ISTPP (Jhajjar)	1000	0	0	0	0.00	0	0.00	0.00
	Dadri GPS	830	846	796	510	15.81	659	15.86	-0.05
	Anta GPS	419	297	268	230	6.29	262	5.84	0.45
	Auraiya GPS	663	650	491	377	10.15	423	10.26	-0.11
	Sub Total (A)	9822	8236	8458	7203	182.69	7612	182.07	0.62
	B. NPC	NAPS	440	139	162	158	3.34	139	3.34
RAPS- B		440	401	448	452	9.70	404	9.62	0.07
RAPS- C		440	420	476	480	10.19	425	10.08	0.11
Sub Total (B)		1320	960	1086	1090	23.23	968	23.04	0.19
C. NHPC	Chamera I HPS	540	534	540	0	2.75	114	2.67	0.08
	Chamera II HPS	300	297	266	0	1.47	61	1.45	0.02
	Bairasuil HPS	180	120	120	0	0.81	34	0.80	0.01
	Salal-HPS	690	172	228	90	3.25	135	3.38	-0.13
	Tanakpur-HPS	94	21	32	14	0.48	20	0.41	0.08
	Uri-HPS	480	185	232	224	4.60	192	5.13	-0.54
	Dhauliganga-HPS	280	210	210	0	0.96	40	0.93	0.03
	Dulhasti-HPS	390	259	258	0	2.58	108	2.45	0.13
	Sewa-II HPS	120	119	125	0	1.08	45	1.08	0.00
	Sub Total (C)	3074	1917	2011	328	17.98	749	18.30	-0.33
D. NJPC	Nathpa Jhakri	1500	956	1358	0	6.20	258	6.00	0.20
	Sub Total (D)	1500	956	1358	0	6.20	258	6.00	0.20
E. THDC	Tehri HPS	1000	915	915	0	8.61	359	8.75	-0.14
	Koteshwar HPS	200	119	198	101	3.89	162	2.00	1.89
	Sub Total (E)	1200	1034	1113	101	12.50	521	10.75	1.75
F. BBMB	Bhakra HPS	1480	726	920	547	17.71	738	17.43	0.28
	Dehar HPS	990	129	495	0	3.26	136	3.10	0.17
	Pong HPS	396	174	306	126	4.40	183	4.17	0.23
	Sub Total (F)	2866	1029	1721	673	25.37	1057	24.70	0.67
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	0	0	0.27	11	0.26	0.01
	KWHEP HPS(IPP)	1000	0	235	0	3.39	141	3.36	0.03
	Malana Stg-II HPS	100	0	0	0	0.00	0	0.00	0.00
	Shree Cement TPS	150	0	146	146	3.49	145	3.52	-0.03
	Sub Total (G)	1442	0	381	146	7.14	298	7.14	0.01
H. Total Regional Entities (A-G)	21225	14133	16128	9541	275.11	11463	272.00	3.11	

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	1045	23.41	976	
	Guru Nanak Dev TPS(Bhatinda)	440	218	218	4.65	194	
	Guru Hargobind Singh TPS(L.mbt)	920	969	964	21.49	896	
	Thermal (Total)	2620	2232	2227	49.55	2065	
	Total Hydro	1148	465	230	12.28	512	
	Total Punjab	3768	2697	2457	61.83	2576	
Haryana	Panipat TPS	1360	565	636	14.32	597	
	DCRTPP (Yamuna nagar)	600	252	275	6.80	283	
	Faridabad GPS (NTPC)	432	436	452	10.55	440	
	RGTPP (kheldar) (IPP)	1200	896	772	23.14	964	
	Magnum Diesel (IPP)	25	0	0	0.00	0	
	Jhajjar(CLP)	660	0	0	0.00	0	
	Thermal (Total)	4277	2149	2135	54.82	2284	
	Total Hydro	62	23	23	0.66	28	
	Total Haryana	4339	2172	2158	55.48	2312	
	Rajasthan	kota TPS	1240	1174	1164	27.54	1148
suratgarh TPS		1500	1376	1353	32.43	1351	
Chabra TPS		500	207	219	5.05	210	
Dholpur GPS		330	226	226	5.37	224	
Ramgarh GPS		113	38	46	1.07	45	
RAPS A (NPC)		300	185	188	4.62	193	
Barsingsar (NLC)		250	168	170	4.67	194	
Giral LTPS (IPP)		250	30	66	0.80	33	
Rajwest LTPS (IPP)		540	345	345	8.72	363	
VSLP LTPS (IPP)		135	0	0	0.00	0	
Thermal (Total)		5158	3749	3777	90.26	3761	
Total Hydro		550	166	149	4.67	194	
Wind power		1294	70	43	1.77	74	
Biomass		71	32	32	0.76	32	
Solar		50	0	0	0.00	0	
Renewable/Others (Total)		1365	102	75	7.19	300	
Total Rajasthan		7073	4017	4001	102.12	4255	
UP		Anpara TPS	1630	1399	1359	32.50	1354
		Obra TPS	1442	605	562	14.20	592
		Paricha TPS	640	229	169	5.20	217
	Panki TPS	210	153	144	3.70	154	
	Harduaganj TPS	415	252	258	5.30	221	
	Tanda TPS (NTPC)	440	398	315	8.16	340	
	Roza TPS (IPP)	900	564	401	12.03	501	
	Anpara-C (IPP)	1200	403	393	9.57	399	
	Bajaj Energy Pvt.Ltd(IPP) TPS	180	23	23	0.54	23	
	Thermal (Total)	7057	4026	3624	91.20	3800	
	Vishnuparyag HPS (IPP)	400	79	69	1.74	73	
	Other Hydro	527	204	0	4.89	204	
	Cogeneration	951	600	600	14.40	600	
	Total UP	8935	4909	4293	112.24	4604	
	Uttarakhand	Total Hydro	1303	518	322	10.35	431
Total Uttarakhand		1303	518	322	10.35	431	
Delhi	Rajghat TPS	135	105	103	2.48	103	
	Delhi Gas Turbine	282	79	77	1.81	75	
	Pragati Gas Turbine	330	313	268	6.83	285	
	Rithala GPS	108	19	19	0.30	13	
	Bawana GPS	440	156	46	4.60	192	
	Badarpur TPS (NTPC)	705	705	570	13.82	576	
	Thermal (Total)	2000	1377	1182	29.84	1244	
	Total Delhi	2000	1377	1182	29.84	1244	
HP	Baspa HPS (IPP)	330	0	0	0.95	40	
	Malana HPS (IPP)	101	0	0	0.18	7	
	Other Hydro	571	172	51	2.95	123	
	Total HP	1002	172	51	4	170	
J & K	Baglihar HPS (IPP)	450	148	148	3.59	150	
	Other Hydro	323	27	125	1.38	57	
	Gas/Diesel/Others	183	0	0	0.00	0	
	Total J & K	956	175	273	4.97	207	
Total State Control Area Generation		29376	16037	14737	380.92	15799	
J. Net Inter Regional Exchange (Import (+ve)/Export (-ve))			1871	3336	80.71	3363	
Total Regional Availability(Gross)		50601	34036	27614	736.73	30625	

IV. Total Hydro Generation:

Regional Entities Hydro	10083	6584	1248	69.19	2883
State Control Area Hydro	5365	1723	1048	41.90	1746
Total Regional Hydro	15447	8307	2296	111.09	4629

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	300	100	300	0	5.32	0.00	5.32
Gwalior-Agra (D/C)	353	1103	1232	0	23.26	0.00	23.26
Zerda-Kankroli	-77	33	150	129	0.15	0.00	0.15
Zerda-Bhinmal	106	118	309	66	2.73	0.00	2.73
Malanpur-Auraiya	-151	-35	0	151	0.00	0.92	-0.92
Badod-Kota/Morak	30	50	82	4	0.90	0.00	0.90
Sub Total WR	561	1369			32.36	0.92	31.44
Pusauli Bypass	-91	145	291	91	2.81	0.26	2.55
MZP- GKP (D/C)	600	900	900	0	18.03	0.00	18.03
Patna-Balia(D/C)	235	277	400	0	8.20	0.00	8.20
B'Sharif-Balia (D/C)	186	249	379	0	8.79	0.00	8.79
Barh - balia(D/C)	259	296	416	0	8.73	0.00	8.73
Pusauli-Sahupuri	151	132	180	0	3.73	0.00	3.73
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-30	-32	0	48	0.00	0.76	-0.76
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sub Total ER	1310	1967			50.28	1.02	49.26
Total IR Exch	1871	3336			82.65	1.94	80.71

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
21.71	0.23	21.94	11.10	9.43	-0.43	8.05	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
35.41	12.33	47.75	49.26	31.44	80.71	13.85	19.11	32.96

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	0.20	4.80	32.20	95.10	67.70	15.10	0.10

<----- 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					
50.22	9.48	49.18	6.40	49.79	0.77	0.18	50.22	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	402	20:35	397	00:00	0.0	0.0	0.0	0.0
Gorakhpur	400	431	16:21	413	23:29	0.0	0.0	41.6	0.4
Bareilly	400	420	17:50	392	06:15	0.0	0.0	0.0	0.0
Kanpur	400	416	18:19	392	06:12	0.0	0.0	0.0	0.0
Dadri	400	420	02:22	396	11:10	0.0	0.0	0.0	0.0
Ballabgarh	400	424	02:22	398	06:43	0.0	0.0	11.0	0.0
Bawana	400	423	02:19	397	11:10	0.0	0.0	10.2	0.0
Bassi	400	423	21:40	385	06:16	0.0	3.3	2.1	0.0
Hissar	400	417	20:43	392	12:30	0.0	0.0	0.0	0.0
Moga	400	426	20:48	406	11:08	0.0	0.0	23.0	0.0
Abdullapur	400	424	02:30	407	11:06	0.0	0.0	11.3	0.0
Nalagarh	400	427	02:13	405	11:10	0.0	0.0	30.7	0.0
Kishenpur	400	421	03:48	398	11:08	0.0	0.0	0.3	0.0
Wagoora	400	410	13:02	380	22:09	0.0	37.2	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	495.21	914.64	498.36	1029.80	137.00	547.76
Pong	426.72	384.05	411.07	534.70	414.56	656.23	60.63	250.12
Tehri	829.79	740.04	796.96	560.42	818.65	982.26	51.96	298.00
Koteshwar	612.50	598.50	607.15	3.32	NA	NA	222.00	285.00
Chamera-I	760.00	748.75	753.98	NA	NA	NA	49.35	53.37
Rihand	268.22	252.98	262.74	463.00	256.55	138.70	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	503.36	NA	505.46	NA	37.97	225.18

* NA: Not Available

IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

XI. Weather Conditions For 09.02.2012 :

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 : 09.02.2012

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER