

पावर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 08.02.2012
Date of Reporting : 09.02.2012

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
32142	3126	35268	49.86	25425	650	26075	50.15	706.9	53.77

* 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	45.64	11.63		57.27	35.41	42.38	6.97	99.65	3.76
Haryana	48.12	0.54		48.66	23.34	41.90	18.56	90.56	15.17
Rajasthan	90.79	5.09	11.57	107.45	46.26	54.62	8.36	162.07	3.85
Delhi	29.37			29.37	41.21	33.55	-7.66	62.92	0.15
UP	94.78	5.46	14.40	114.64	80.98	82.74	1.77	197.38	27.18
Uttarakhand		10.00		10.00	19.15	19.99	0.84	29.98	1.20
HP		4.27		4.27	19.28	19.16	-0.12	23.44	0.56
J & K		6.96	0.00	6.96	24.96	30.18	5.22	37.14	1.90
Chandigarh				0.00	3.48	3.76	0.28	3.76	0.00
Total	308.70	43.96	25.97	378.62	294.07	328.28	34.21	706.90	53.77

* 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	4566	150	136	-287	3989	0	610	-401	-6.62
Haryana	3945	1327	466	-127	3260	0	247	-127	-3.05
Rajasthan	6701	175	540	-3	6407	0	115	197	6.76
Delhi	3260	2	-116	-138	1400	0	-140	-410	-5.18
UP	9189	1285	433	184	7102	650	-117	184	4.41
Uttarakhand	1506	80	61	395	1028	0	-21	395	9.48
HP	1121	7	-264	123	747	0	102	323	6.15
J&K	1642	100	92	248	1403	0	257	255	5.68
Chandigarh	212	0	-9	0	89	0	3	-41	-0.33
Total	32142	3126	1339	396	25425	650	1057	375	17.30

* 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	1765	1881	1837	42.55	1773	41.93	0.62
	Rihand I STPS	1000	864	1004	580	20.70	863	20.25	0.45
	Rihand II STPS	1000	977	1038	807	23.08	962	22.76	0.32
	Dadri I STPS	840	798	860	694	17.36	724	17.26	0.10
	Dadri II STPS	980	969	945	737	21.38	891	21.85	-0.47
	Unchahar I TPS	440	406	440	319	9.37	390	9.21	0.15
	Unchahar II TPS	440	404	443	318	9.39	391	9.10	0.29
	Unchahar III TPS	210	202	220	160	4.65	194	4.56	0.10
	ISTPP (Jhajjar)	1000	0	0	0	0.00	0	0.00	0.00
	Dadri GPS	830	846	726	511	15.00	625	15.09	-0.09
	Anta GPS	419	373	236	256	6.63	276	6.65	-0.02
	Auraiya GPS	663	650	409	389	10.41	434	10.28	0.13
	Sub Total (A)	9822	8254	8202	6608	180.52	7522	178.95	1.57
	B. NPC	NAPS	440	139	160	158	3.28	137	3.34
RAPS- B		440	403	451	448	9.73	405	9.67	0.06
RAPS- C		440	420	476	478	10.31	430	10.08	0.23
Sub Total (B)		1320	962	1087	1084	23.32	972	23.09	0.23
C. NHPC	Chamera I HPS	540	534	540	0	2.77	116	2.75	0.02
	Chamera II HPS	300	297	258	0	1.21	50	1.20	0.01
	Bairasuil HPS	180	120	120	0	0.89	37	0.87	0.03
	Salal-HPS	690	145	334	130	3.24	135	3.20	0.04
	Tanakpur-HPS	94	27	28	20	0.56	23	0.57	-0.01
	Uri-HPS	480	196	232	224	4.60	192	4.69	-0.09
	Dhauliganga-HPS	280	210	210	0	0.97	41	0.95	0.03
	Dulhasti-HPS	390	259	267	0	2.69	112	2.55	0.14
	Sewa-II HPS	120	119	84	0	1.09	45	1.07	0.02
	Sub Total (C)	3074	1906	2073	374	18.01	750	17.85	0.16
D. NJPC	Nathpa Jhakri	1500	956	1346	0	6.40	267	6.35	0.05
	Sub Total (D)	1500	956	1346	0	6.40	267	6.35	0.05
E. THDC	Tehri HPS	1000	767	918	0	8.76	365	8.75	0.00
	Koteshwar HPS	200	119	202	101	3.67	153	1.50	2.17
	Sub Total (E)	1200	885	1120	101	12.43	518	10.25	2.18
F. BBMB	Bhakra HPS	1480	733	1077	547	17.69	737	17.60	0.09
	Dehar HPS	990	125	495	0	3.21	134	2.99	0.22
	Pong HPS	396	182	306	126	4.56	190	4.37	0.19
	Sub Total (F)	2866	1040	1878	673	25.46	1061	24.96	0.50
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	0	0	0.25	11	0.24	0.01
	KWHEP HPS(IPP)	1000	0	300	0	2.86	119	3.36	-0.50
	Malana Stg-II HPS	100	0	0	0	0.00	0	0.00	0.00
	Shree Cement TPS	150	0	146	146	3.51	146	3.52	-0.01
	Sub Total (G)	1442	0	446	146	6.62	276	7.12	-0.50
H. Total Regional Entities (A-G)	21225	14004	16152	8986	272.76	11365	268.56	4.20	

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	23.40	975	
	Guru Nanak Dev TPS(Bhatinda)	440	218	218	4.67	195	
	Guru Hargobind Singh TPS(L.mbt)	920	910	706	17.56	732	
	Thermal (Total)	2620	2173	1969	45.64	1901	
	Total Hydro	1148	437	294	11.63	485	
	Total Punjab	3768	2610	2263	57.27	2386	
Haryana	Panipat TPS	1360	649	882	19.32	805	
	DCRTPP (Yamuna nagar)	600	273	271	6.60	275	
	Faridabad GPS (NTPC)	432	432	443	10.57	440	
	RGTPP (kheldar) (IPP)	1200	488	392	11.63	485	
	Magnum Diesel (IPP)	25	0	0	0.00	0	
	Jhajjar(CLP)	660	0	0	0.00	0	
	Thermal (Total)	4277	1842	1988	48.12	2005	
	Total Hydro	62	22	23	0.54	23	
	Total Haryana	4339	1864	2011	48.66	2028	
	Rajasthan	kota TPS	1240	1175	1173	27.63	1151
suratgarh TPS		1500	1382	1373	32.57	1357	
Chabra TPS		500	219	224	5.17	215	
Dholpur GPS		330	226	226	5.37	224	
Ramgarh GPS		113	45	46	1.02	42	
RAPS A (NPC)		300	187	175	4.51	188	
Barsingsar (NLC)		250	170	207	4.47	186	
Giral LTPS (IPP)		250	66	76	1.38	58	
Rajwest LTPS (IPP)		540	345	345	8.67	361	
VSLP LTPS (IPP)		135	0	0	0.00	0	
Thermal (Total)		5158	3815	3845	90.79	3783	
Total Hydro		550	210	148	5.09	212	
Wind power		1294	80	525	5.50	229	
Biomass		71	41	41	0.98	41	
Solar		50	0	0	0.00	0	
Renewable/Others (Total)		1365	121	566	11.57	482	
Total Rajasthan		7073	4146	4559	107.45	4477	
UP		Anpara TPS	1630	1535	1558	33.30	1388
		Obra TPS	1442	656	665	14.20	592
		Paricha TPS	640	186	184	4.10	171
	Panki TPS	210	170	170	3.60	150	
	Harduaganj TPS	415	304	298	6.30	263	
	Tanda TPS (NTPC)	440	401	311	9.38	391	
	Roza TPS (IPP)	900	564	398	12.67	528	
	Anpara-C (IPP)	1200	401	395	9.38	391	
	Bajaj Energy Pvt.Ltd(IPP) TPS	180	22	45	1.86	77	
	Thermal (Total)	7057	4239	4024	94.78	3949	
	Vishnuparyag HPS (IPP)	400	69	69	1.60	67	
	Other Hydro	527	273	39	3.86	161	
	Cogeneration	951	600	600	14.40	600	
	Total UP	8935	5181	4732	114.64	4710	
	Uttarakhand	Total Hydro	1303	526	316	10.00	416
Total Uttarakhand		1303	526	316	10.00	416	
Delhi	Rajghat TPS	135	106	57	2.03	85	
	Delhi Gas Turbine	282	79	77	1.94	81	
	Pragati Gas Turbine	330	216	266	7.45	310	
	Rithala GPS	108	19	19	0.37	15	
	Bawana GPS	440	129	39	3.95	164	
	Badarpur TPS (NTPC)	705	580	565	13.64	568	
	Thermal (Total)	2000	1129	984	29.37	1224	
	Total Delhi	2000	1129	984	29.37	1224	
HP	Baspa HPS (IPP)	330	0	0	0.99	41	
	Malana HPS (IPP)	101	0	0	0.21	9	
	Other Hydro	571	142	54	3.07	128	
	Total HP	1002	142	54	4	178	
J & K	Baglihar HPS (IPP)	450	150	148	5.59	233	
	Other Hydro	323	27	125	1.38	57	
	Gas/Diesel/Others	183	0	0	0.00	0	
	Total J & K	956	177	273	6.96	290	
Total State Control Area Generation		29376	15775	15192	378.62	15709	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			1728	2323	68.05	2836	
Total Regional Availability(Gross)		50601	33655	26501	719.43	29910	

IV. Total Hydro Generation:

Regional Entities Hydro	10083	6863	1294	68.92	2872
State Control Area Hydro	5365	1787	1147	42.36	1765
Total Regional Hydro	15447	8650	2441	111.28	4637

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	200	200	200	0	4.84	0.00	4.84
Gwalior-Agra (D/C)	769	892	1224	0	22.66	0.00	22.66
Zerda-Kankroli	-106	-117	183	117	0.30	0.00	0.30
Zerda-Bhinmal	-9	-43	287	43	2.44	0.00	2.44
Malanpur-Auraiya	-124	-57	0	124	0.00	1.05	-1.05
Badod-Kota/Morak	38	46	70	61	1.18	0.00	1.18
Sub Total WR	768	921			31.43	1.05	30.38
Pusauli Bypass	-194	34	214	194	0.44	1.39	-0.95
MZP- GKP (D/C)	452	436	772	0	13.82	0.00	13.82
Patna-Balia(D/C)	129	277	352	0	5.73	0.00	5.73
B'Sharif-Balia (D/C)	210	249	696	0	8.93	0.00	8.93
Barh - balia(D/C)	204	296	374	0	7.00	0.00	7.00
Pusauli-Sahupuri	189	142	189	0	3.91	0.00	3.91
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	960	1402			39.82	2.15	37.67
Total IR Exch	1728	2323			71.25	3.20	68.05

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
23.11	0.23	23.34	10.33	9.43	-1.65	4.97	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
34.83	9.20	44.03	37.67	30.38	68.05	2.84	21.18	24.02

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	5.10	28.80	93.90	70.20	15.10	1.00

<----- 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					
50.30	2.05	49.29	8.20	49.80	0.72	0.18	50.19	49.55

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	409	03:13	396	16:30	0.0	0.0	0.0	0.0
Gorakhpur	400	431	08:00	414	14:00	0.0	0.0	0.0	0.0
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 (m ³ /s)	Usage (m ³ /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 08.02.2012 :

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 : 08.02.2012

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER