

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 23.02.2012
Date of Reporting : 24.02.2012

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
31599	2192	33791	49.85	26619	957.9	27577	49.98	712.3	46.51

* 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	54.51	12.16		66.68	36.73	32.40	-4.33	99.07	1.80
Haryana	50.83	0.51		51.35	25.36	44.99	19.63	96.33	9.84
Rajasthan	86.11	4.84	10.05	101.00	48.31	62.88	14.57	163.88	2.17
Delhi	26.20			26.20	43.87	31.34	-12.52	57.55	0.00
UP	95.14	7.12	14.40	116.66	88.16	90.22	2.06	206.89	29.48
Uttarakhand		10.28		10.28	18.28	18.33	0.05	28.61	0.91
HP		5.21		5.21	19.31	18.35	-0.95	23.57	0.00
J & K		6.32	0.00	6.32	27.35	26.68	-0.67	33.00	2.30
Chandigarh				0.00	3.57	3.40	-0.17	3.40	0.00
Total	312.80	46.45	24.45	383.69	310.94	328.60	17.66	712.29	46.51

* 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	4450	150	-322	-287	3536	0	-203	-407	-6.66
Haryana	4401	639	773	-127	3875	0	702	-127	-3.05
Rajasthan	6248	13	152	12	6898	288	1006	62	4.27
Delhi	3004	0	-296	-227	1369	0	-450	-299	-3.35
UP	9325	1240	344	265	7862	670	-144	265	6.36
Uttarakhand	1436	0	14	350	1014	0	52	350	8.40
HP	1022	0	-339	223	722	0	-12	323	7.10
J&K	1528	150	-60	248	1254	0	-18	255	5.67
Chandigarh	186	0	-25	0	90	0	1	-41	-0.33
Total	31599	2192	241	457	26619	957.9	933	381	18.41

* 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	1914	2089	2022	46.52	1938	45.93	0.59
	Rihand I STPS	1000	920	1001	985	22.20	925	21.92	0.28
	Rihand II STPS	1000	975	1041	1040	23.58	982	23.19	0.39
	Dadri I STPS	840	761	731	611	15.53	647	15.31	0.22
	Dadri II STPS	980	960	1015	664	21.60	900	21.69	-0.09
	Unchahar I TPS	440	402	440	420	9.58	399	9.41	0.17
	Unchahar II TPS	440	404	442	437	9.74	406	9.23	0.51
	Unchahar III TPS	210	202	219	198	4.83	201	4.65	0.18
	ISTPP (Jhajjar)	1000	0	0	0	0.00	0	0.00	0.00
	Dadri GPS	830	647	535	438	11.49	479	11.59	-0.09
	Anta GPS	419	423	351	313	7.81	325	7.68	0.13
	Auraiya GPS	663	641	480	439	10.21	425	10.22	-0.01
	Sub Total (A)	9822	8249	8344	7567	183.09	7629	180.82	2.27
B. NPC	NAPS	440	139	152	159	3.20	133	3.34	-0.14
	RAPS- B	440	419	464	463	10.09	420	10.06	0.03
	RAPS- C	440	420	468	473	10.19	424	10.08	0.11
	Sub Total (B)	1320	978	1084	1095	23.47	978	23.47	0.00
C. NHPC	Chamera I HPS	540	401	450	0	2.18	91	2.07	0.11
	Chamera II HPS	300	198	198	0	1.92	80	1.78	0.14
	Bairasuil HPS	180	179	179	60	2.47	103	2.55	-0.08
	Salal-HPS	690	235	308	177	5.91	246	5.23	0.68
	Tanakpur-HPS	94	27	25	18	0.51	21	0.51	0.00
	Uri-HPS	480	409	400	280	9.49	396	9.01	0.48
	Dhauliganga-HPS	280	228	212	0	0.75	31	0.83	-0.09
	Dulhasti-HPS	390	0	0	0	0.00	0	0.00	0.00
	Sewa-II HPS	120	119	123	85	2.83	118	2.78	0.05
	Sub Total (C)	3074	1796	1895	620	26.06	1086	24.76	1.30
D. NJPC	Nathpa Jhakri	1500	1133	1606	0	6.19	258	6.00	0.19
	Sub Total (D)	1500	1133	1606	0	6.19	258	6.00	0.19
E. THDC	Tehri HPS	1000	720	882	0	8.10	337	8.00	0.10
	Koteshwar HPS	200	175	296	0	2.94	133	2.90	0.04
	Sub Total (E)	1200	895	1178	0	11.04	460	10.90	0.14
F. BBMB	Bhakra HPS	1480	733	971	392	18.18	758	17.58	0.60
	Dehar HPS	990	192	495	165	5.08	212	4.61	0.47
	Pong HPS	396	179	306	66	4.56	190	4.29	0.27
	Sub Total (F)	2866	1104	1772	623	27.82	1159	26.49	1.33
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	0	0	0.24	10	0.23	0.01
	KWHEP HPS(IPP)	1000	0	400	0	3.21	134	3.63	-0.42
	Malana Stg-II HPS	100	0	0	0	0.00	0	0.00	0.00
	Shree Cement TPS	150	0	144	148	3.51	146	3.46	0.05
	Sub Total (G)	1442	0	544	148	6.96	290	7.32	-0.37
H. Total Regional Entities (A-G)	21225	14155	16423	10053	284.62	11859	279.76	4.86	

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	1255	1255	28.12	1172	
	Guru Nanak Dev TPS(Bhatinda)	440	218	218	4.77	199	
	Guru Hargobind Singh TPS(L.mbt)	920	962	970	21.62	901	
	Thermal (Total)	2620	2435	2443	54.51	2271	
	Total Hydro	1148	347	288	12.16	507	
	Total Punjab	3768	2782	2731	66.68	2778	
Haryana	Panipat TPS	1360	835	843	20.28	845	
	DCRTPP (Yamuna nagar)	600	286	280	6.59	275	
	Faridabad GPS (NTPC)	432	405	417	10.10	421	
	RGTPP (kheldar) (IPP)	1200	537	524	13.86	578	
	Magnum Diesel (IPP)	25	0	0	0.00	0	
	Jhajjar(CLP)	660	0	0	0.00	0	
	Thermal (Total)	4277	2063	2064	50.83	2118	
	Total Hydro	62	21	17	0.51	21	
	Total Haryana	4339	2084	2081	51.35	2139	
	Rajasthan	kota TPS	1240	1179	1168	27.95	1165
suratgarh TPS		1500	1145	1132	26.97	1124	
Chabra TPS		500	220	438	6.54	272	
Dholpur GPS		330	225	225	5.48	228	
Ramgarh GPS		113	43	44	1.09	46	
RAPS A (NPC)		300	186	185	4.55	190	
Barsingsar (NLC)		250	72	124	2.73	114	
Giral LTPS (IPP)		250	0	0	0.00	0	
Rajwest LTPS (IPP)		540	435	430	10.80	450	
VSLP LTPS (IPP)		135	0	0	0.00	0	
Thermal (Total)		5158	3505	3746	86.11	3588	
Total Hydro		550	220	146	4.84	202	
Wind power		1294	188	289	4.15	173	
Biomass		71	58	58	1.06	44	
Solar		50	0	0	0.00	0	
Renewable/Others (Total)		1365	246	347	10.05	419	
Total Rajasthan		7073	3971	4239	101.00	4208	
UP		Anpara TPS	1630	1502	1557	33.00	1375
		Obra TPS	1442	641	618	13.40	558
	Paricha TPS	640	227	233	5.00	208	
	Panki TPS	210	175	190	3.80	158	
	Harduaganj TPS	415	219	221	4.70	196	
	Tanda TPS (NTPC)	440	395	400	9.66	403	
	Roza TPS (IPP)	900	554	401	12.65	527	
	Anpara-C (IPP)	1200	374	378	9.02	376	
	Bajaj Energy Pvt.Ltd(IPP) TPS	180	195	171	3.91	163	
	Thermal (Total)	7057	4282	4169	95.14	3964	
	Vishnuparyag HPS (IPP)	400	74	65	1.68	70	
	Other Hydro	527	260	54	5.44	227	
	Cogeneration	951	600	600	14.40	600	
	Total UP	8935	5216	4888	116.66	4791	
	Uttarakhand	Total Hydro	1303	560	334	10.28	428
Total Uttarakhand		1303	560	334	10.28	428	
Delhi	Rajghat TPS	135	105	99	2.70	113	
	Delhi Gas Turbine	282	81	82	1.96	82	
	Pragati Gas Turbine	330	301	266	7.35	306	
	Rithala GPS	108	29	29	0.71	29	
	Bawana GPS	440	0	0	0.00	0	
	Badarpur TPS (NTPC)	705	625	620	13.48	562	
	Thermal (Total)	2000	1141	1096	26.20	1092	
	Total Delhi	2000	1141	1096	26.20	1092	
HP	Baspa HPS (IPP)	330	0	0	0.99	41	
	Malana HPS (IPP)	101	31	0	0.23	9	
	Other Hydro	571	205	91	3.99	166	
	Total HP	1002	236	91	5	217	
J & K	Baglihar HPS (IPP)	450	148	148	4.01	167	
	Other Hydro	323	90	126	2.30	96	
	Gas/Diesel/Others	183	0	0	0.00	0	
	Total J & K	956	238	274	6.32	263	
Total State Control Area Generation		29376	16228	15734	383.69	15917	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			1766	1789	59.46	2478	
Total Regional Availability(Gross)		50601	34417	27576	727.78	30254	

IV. Total Hydro Generation:

Regional Entities Hydro	10083	6995	1391	78.06	3253
State Control Area Hydro	5365	1882	1204	44.76	1865
Total Regional Hydro	15447	8877	2595	122.82	5118

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	0	151	150	0	1.35	0.00	1.35
Gwalior-Agra (D/C)	221	444	1286	0	15.20	0.00	15.20
Zerda-Kankroli	100	-113	100	190	0.00	1.73	-1.73
Zerda-Bhinmal	-63	-34	215	154	0.74	0.00	0.74
Malanpur-Auraiya	-158	-154	0	182	0.00	2.17	-2.17
Badod-Kota/Morak	14	-19	30	30	0.00	0.38	-0.38
Sub Total WR	114	275			17.30	4.27	13.02
Pusauli Bypass	219	189	367	40	4.38	0.08	4.30
MZP- GKP (D/C)	376	391	840	0	13.65	0.00	13.65
Patna-Balia(D/C)	298	296	780	0	9.91	0.00	9.91
B'Sharif-Balia (D/C)	336	275	728	0	10.70	0.00	10.70
Barh - balia(D/C)	277	317	451	0	5.91	0.00	5.91
Pusauli-Sahupuri	176	78	176	0	2.93	0.00	2.93
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	1652	1514			47.47	1.03	46.44
Total IR Exch	1766	1789			64.77	5.30	59.46

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
21.81	0.17	21.98	10.26	10.30	-1.87	0.75	2.84	-2.84

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
33.21	5.85	39.06	46.44	13.02	59.46	13.23	7.17	20.40

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	2.70	24.10	96.20	74.80	14.70	1.10

<----- 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					
50.38	17.03	49.22	23.04	49.82	0.62	0.17	50.34	49.58

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	03:58	386	14:38	0.0	25.2	0.0	0.0
Gorakhpur	400	438	19:55	410	09:47	0.0	0.0	51.7	13.5
Bareilly	400	421	04:01	399	08:43	0.0	0.0	0.2	0.0
Kanpur	400	414	18:17	397	06:13	0.0	0.0	0.0	0.0
Dadri	400	420	04:00	400	08:48	0.0	0.0	0.0	0.0
Ballabgarh	400	423	04:00	400	12:18	0.0	0.0	3.9	0.0
Bawana	400	424	03:59	400	12:18	0.0	0.0	8.0	0.0
Bassi	400	422	20:56	396	12:19	0.0	0.0	1.7	0.0
Hissar	400	417	05:05	391	12:05	0.0	0.0	0.0	0.0
Moga	400	428	05:04	402	12:05	0.0	0.0	20.3	0.0
Abdullapur	400	426	05:04	282	12:29	0.1	0.1	13.5	0.0
Nalagarh	400	428	05:03	399	12:05	0.0	0.0	19.1	0.0
Kishenpur	400	424	04:00	398	19:15	0.0	0.0	5.8	0.0
Wagoora	400	408	04:00	380	19:13	0.0	45.6	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	489.63	719.44	494.05	903.28	173.92	569.17
Pong	426.72	384.05	408.87	454.47	412.41	577.87	84.89	318.62
Tehri	829.79	740.04	787.50	411.99	818.65	982.26	69.85	208.00
Koteshwar	612.50	598.50	607.40	3.32	NA	NA	216.00	206.00
Chamera-I	760.00	748.75	NA	NA	NA	NA	88.85	109.96
Rihand	268.22	252.98	261.95	415.40	256.15	122.50	NA	NA
RPS	352.80	343.81	348.65	NA	NA	NA	NA	264.22
Jawahar Sagar	298.70	295.78	298.03	NA	NA	NA	NA	243.16
RSD	527.91	487.91	499.24	NA	504.74	NA	140.45	190.35

* NA: Not Available

IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

XI. Weather Conditions For 23.02.2012 :

1. 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 : 23.02.2012

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER