

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 22.03.2012
Date of Reporting : 23.03.2012

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
29426	1297	30723	49.66	25470	1000	26470	50.08	667.2	31.98

* 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	47.73	12.08		59.81	42.37	36.43	-5.94	96.24	1.80
Haryana	53.42	0.63		54.04	28.63	31.72	3.08	85.76	3.76
Rajasthan	90.22	2.40	5.51	98.13	46.96	54.96	8.00	153.08	0.87
Delhi	24.55			24.55	44.79	31.21	-13.58	55.76	0.03
UP	81.32	5.75	14.40	101.47	94.11	93.76	-0.34	195.23	23.21
Uttarakhand		10.50		10.50	14.55	18.66	4.11	29.16	0.00
HP		8.50		8.50	16.25	14.29	-1.96	22.78	0.01
J & K		7.67	0.00	7.67	19.84	18.11	-1.74	25.77	2.30
Chandigarh				0.00	3.91	3.40	-0.50	3.40	0.00
Total	297.24	47.52	19.91	364.67	311.39	302.52	-8.87	667.19	31.98

* 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	4216	150	-244	-424	3440	0	-798	-148	-4.76
Haryana	3769	496	366	-149	2749	0	-539	-149	-3.58
Rajasthan	5506	57	29	6	6862	0	781	6	0.11
Delhi	2965	0	-252	69	1442	0	-552	-143	0.16
UP	9073	445	83	265	7969	1000	18	243	6.14
Uttarakhand	1468	0	369	150	1036	0	190	150	3.60
HP	906	0	-88	-297	755	0	-66	146	0.38
J&K	1338	150	74	-292	1126	0	-81	-192	-5.11
Chandigarh	185	0	-13	0	92	0	-15	0	0.00
Total	29426	1297	325	-672	25470	1000	-1062	-86	-3.06

* 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	1960	2114	2110	47.64	1985	47.04	0.60
	Rihand I STPS	1000	915	995	999	22.10	921	21.96	0.14
	Rihand II STPS	1000	975	1040	1048	23.42	976	23.00	0.42
	Dadri I STPS	840	803	876	836	18.03	751	15.16	2.86
	Dadri II STPS	980	973	1025	764	22.20	925	22.03	0.17
	Unchahar I TPS	440	406	437	439	9.38	391	9.20	0.18
	Unchahar II TPS	440	404	439	436	9.15	381	8.77	0.38
	Unchahar III TPS	210	202	220	218	4.68	195	4.56	0.12
	ISTPP (Jhajjar)	1000	0	0	0	0.00	0	0.00	0.00
	Dadri GPS	830	824	813	573	15.71	655	15.23	0.48
	Anta GPS	419	400	387	292	7.78	324	7.59	0.19
	Auraiya GPS	663	486	318	310	7.31	305	7.30	0.01
	Sub Total (A)	9822	8348	8664	8025	187.39	7808	181.84	5.55
B. NPC	NAPS	440	270	313	321	6.71	279	6.48	0.23
	RAPS- B	440	418	462	472	10.19	424	10.03	0.15
	RAPS- C	440	420	467	478	10.21	425	10.08	0.13
	Sub Total (B)	1320	1108	1242	1271	27.10	1129	26.59	0.51
C. NHPC	Chamera I HPS	540	534	540	0	7.23	301	7.25	-0.02
	Chamera II HPS	300	297	190	0	2.88	120	3.31	-0.43
	Bairasuil HPS	180	179	179	85	3.62	151	3.55	0.07
	Salal-HPS	690	349	417	318	8.22	343	8.58	-0.36
	Tanakpur-HPS	94	24	31	28	0.61	25	0.59	0.01
	Uri-HPS	480	476	480	478	11.34	472	11.64	-0.30
	Dhauliganga-HPS	280	210	210	0	1.28	53	1.24	0.04
	Dulhasti-HPS	390	388	413	0	3.45	144	3.10	0.35
	Sewa-II HPS	120	119	125	80	2.74	114	2.65	0.09
	Sub Total (C)	3074	2575	2585	989	41.36	1723	41.90	-0.54
D. NJPC	Nathpa Jhakri	1500	1200	1613	0	9.23	384	9.29	-0.06
	Sub Total (D)	1500	1200	1613	0	9.23	384	9.29	-0.06
E. THDC	Tehri HPS	1000	570	381	0	5.91	246	6.00	-0.09
	Koteshwar HPS	300	300	297	0	2.64	110	2.50	0.14
	Sub Total (E)	1300	870	678	0	8.55	356	8.50	0.05
F. BBMB	Bhakra HPS	1480	719	993	414	17.59	733	17.26	0.33
	Dehar HPS	990	265	420	140	6.59	275	6.37	0.23
	Pong HPS	396	261	306	186	6.47	270	6.25	0.22
	Sub Total (F)	2866	1245	1719	740	30.65	1277	29.88	0.77
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	0	0	0.51	21	0.49	0.02
	KWHEP HPS(IPP)	1000	0	360	0	4.98	207	5.17	-0.20
	Malana Stg-II HPS	100	0	0	0	0.00	0	0.00	0.00
	Shree Cement TPS	300	0	135	141	3.06	128	2.71	0.35
	Sub Total (G)	1592	0	495	141	8.55	356	8.37	0.18
H. Total Regional Entities (A-G)	21475	15346	16996	11166	312.82	13034	306.36	6.45	

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	1035	22.17	924	
	Guru Nanak Dev TPS(Bhatinda)	440	219	200	4.55	190	
	Guru Hargobind Singh TPS(L.mbt)	920	967	967	21.01	875	
	Thermal (Total)	2620	2231	2202	47.73	1989	
	Total Hydro	1148	605	343	12.08	503	
	Total Punjab	3768	2836	2545	59.81	2492	
Haryana	Panipat TPS	1360	1006	991	24.33	1014	
	DCRTPP (Yamuna nagar)	600	281	281	6.59	275	
	Faridabad GPS (NTPC)	432	402	412	9.52	397	
	RGTPP (kheldar) (IPP)	1200	450	594	12.97	540	
	Magnum Diesel (IPP)	25	0	0	0.00	0	
	Jhajjar(CLP)	660	0	0	0.00	0	
	Thermal (Total)	4277	2139	2278	53.42	2226	
	Total Hydro	62	20	28	0.63	26	
	Total Haryana	4339	2159	2306	54.04	2252	
	Rajasthan	kota TPS	1240	1170	1173	27.83	1160
suratgarh TPS		1500	1138	918	25.09	1045	
Chabra TPS		500	220	415	7.17	299	
Dholpur GPS		330	160	239	4.65	194	
Ramgarh GPS		113	64	62	1.51	63	
RAPS A (NPC)		300	180	184	4.52	188	
Barsingsar (NLC)		250	213	195	5.34	222	
Giral LTPS (IPP)		250	119	135	2.62	109	
Rajwest LTPS (IPP)		540	470	470	11.50	479	
VSLP LTPS (IPP)		135	0	0	0.00	0	
Thermal (Total)		5158	3734	3791	90.22	3759	
Total Hydro		550	83	113	2.40	100	
Wind power		1294	72	390	4.47	186	
Biomass		71	43	43	1.04	43	
Solar		50	0	0	0.00	0	
Renewable/Others (Total)		1365	115	433	5.51	230	
Total Rajasthan		7073	3932	4337	98.13	4089	
UP		Anpara TPS	1630	1276	1347	31.50	1313
		Obra TPS	1442	472	562	12.20	508
		Paricha TPS	640	225	212	5.10	213
	Panki TPS	210	113	99	2.70	113	
	Harduaganj TPS	415	16	0	0.20	8	
	Tanda TPS (NTPC)	440	400	402	9.80	409	
	Roza TPS (IPP)	900	284	284	6.77	282	
	Anpara-C (IPP)	1200	333	180	7.25	302	
	Bajaj Energy Pvt.Ltd(IPP) TPS	180	154	229	5.81	242	
	Thermal (Total)	7057	3273	3315	81.32	3388	
	Vishnuparyag HPS (IPP)	400	84	84	1.96	82	
	Other Hydro	527	246	55	3.79	158	
	Cogeneration	951	600	600	14.40	600	
	Total UP	8935	4203	4054	101.47	4146	
	Uttarakhand	Total Hydro	1303	506	396	10.50	438
		Total Uttarakhand	1303	506	396	10.50	438
Delhi	Rajghat TPS	135	48	47	1.12	47	
	Delhi Gas Turbine	282	78	79	1.90	79	
	Pragati Gas Turbine	330	301	261	7.15	298	
	Rithala GPS	108	28	27	0.69	29	
	Bawana GPS	440	0	0	0.00	0	
	Badarpur TPS (NTPC)	705	675	590	13.69	571	
	Thermal (Total)	2000	1130	1004	24.55	1023	
	Total Delhi	2000	1130	1004	24.55	1023	
HP	Baspa HPS (IPP)	330	102	28	1.05	44	
	Malana HPS (IPP)	101	44	0	0.41	17	
	Other Hydro	571	295	304	7.03	293	
	Total HP	1002	441	332	8	354	
J & K	Baglihar HPS (IPP)	450	236	234	5.25	219	
	Other Hydro	323	95	105	2.41	101	
	Gas/Diesel/Others	183	0	0	0.00	0	
	Total J & K	956	331	339	7.67	319	
Total State Control Area Generation		29376	15538	15313	364.67	15113	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			1012	167	11.61	484	
Total Regional Availability(Gross)		50851	33546	26646	689.09	28631	

IV. Total Hydro Generation:

Regional Entities Hydro	10033	6955	1729	95.27	3970
State Control Area Hydro	5365	2232	1606	45.56	1898
Total Regional Hydro	15397	9187	3335	140.83	5868

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	-250	-300	0	400	0.00	4.24	-4.24
Gwalior-Agra (D/C)	458	581	854	60	12.23	0.00	12.23
Zerda-Kankroli	-145	-217	0	417	0.00	4.85	-4.85
Zerda-Bhinmal	-111	-178	20	371	0.00	3.49	-3.49
Malanpur-Auraiya	-86	-66	0	168	0.00	1.84	-1.84
Badod-Kota/Morak	-44	-84	0	90	0.00	1.18	-1.18
Sub Total WR	-178	-264			12.23	15.60	-3.37
Pusauli Bypass	-118	-233	86	369	0.11	3.64	-3.53
MZP- GKP (D/C)	458	71	458	0	4.69	0.00	4.69
Patna-Balia(D/C)	249	164	385	0	5.48	0.00	5.48
B'Sharif-Balia (D/C)	191	95	239	0	3.23	0.00	3.23
Barh - balia(D/C)	280	192	425	0	2.42	0.00	2.42
Pusauli-Sahupuri	160	174	184	0	3.64	0.00	3.64
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	1190	431			19.57	4.59	14.98
Total IR Exch	1012	167			31.79	20.19	11.61

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
27.45	0.16	27.62	-3.19	2.41	2.45	-6.64	1.58	-1.58

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
28.46	-8.08	20.37	14.98	-3.37	11.61	-13.48	4.71	-8.76

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	2.40	14.20	96.30	84.20	23.10	1.60

<----- 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					
50.32	5.03	49.13	18.41	49.87	0.45	0.17	50.25	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	410	13:31	399	18:41	0.0	0.0	0.0	0.0
Gorakhpur	400	435	14:08	391	18:26	0.0	0.0	56.7	3.6
Bareilly	400	430	04:07	393	19:06	0.0	0.0	34.6	0.0
Kanpur	400	421	04:08	393	18:41	0.0	0.0	0.4	0.0
Dadri	400	426	04:08	401	18:40	0.0	0.0	20.3	0.0
Ballabgarh	400	429	04:03	402	18:40	0.0	0.0	31.0	0.0
Bawana	400	431	04:04	402	18:53	0.0	0.0	51.7	0.4
Bassi	400	424	04:04	401	06:12	0.0	0.0	2.9	0.0
Hissar	400	419	04:03	399	18:41	0.0	0.0	0.0	0.0
Moga	400	427	04:02	406	10:46	0.0	0.0	23.7	0.0
Abdullapur	400	429	04:18	403	18:55	0.0	0.0	57.3	0.0
Nalagarh	400	430	04:07	409	18:42	0.0	0.0	47.4	0.0
Kishenpur	400	423	04:03	398	19:17	0.0	0.0	3.4	0.0
Wagoora	400	406	04:06	372	20:38	12.5	20.7	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	479.95	461.24	488.34	680.34	257.82	565.34
Pong	426.72	384.05	404.69	328.16	410.47	514.41	115.45	442.41
Tehri	829.79	740.04	773.55	251.00	818.65	982.26	55.23	168.00
Koteshwar	612.50	598.50	609.20	4.21	NA	NA	172.00	172.00
Chamera-I	760.00	748.75	755.79	NA	755.30	NA	182.86	196.06
Rihand	268.22	252.98	260.27	319.80	255.45	94.20	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	496.10	NA	504.16	NA	134.67	142.49

* NA: Not Available

IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

XI. Weather Conditions For 22.03.2012 :

XII. Synchronisation of new generating units :

XIII. Synchronisation of new 220 / 400 / 765 KV lines and energising of bus //substation :
1.Koteswar#4 (100 MW) first time synchronised at 22:00 hrs on 22.03.2012

XIV. Tripping of lines in pooling stations :

XV. Complete generation loss in a generating station :

Report for : 22.03.2012

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER