

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 21.03.2012
Date of Reporting : 22.03.2012

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
29516	1551	31067	49.88	26622	620	27242	50.02	683.9	36.14

* 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	48.89	11.44		60.33	41.27	33.52	-7.75	93.85	1.80
Haryana	54.88	0.68		55.56	28.32	36.84	8.52	92.41	0.93
Rajasthan	93.30	3.28	4.37	100.95	48.03	57.82	9.80	158.77	0.51
Delhi	24.31			24.31	46.17	33.07	-13.11	57.38	0.02
UP	83.13	7.06	14.40	104.59	90.39	100.42	10.03	205.01	29.58
Uttarakhand		10.86		10.86	14.65	18.66	4.01	29.52	0.00
HP		8.71		8.71	15.50	13.12	-2.38	21.84	1.00
J & K		7.67	0.00	7.67	20.01	14.15	-5.86	21.82	2.30
Chandigarh				0.00	3.98	3.36	-0.62	3.36	0.00
Total	304.51	49.71	18.77	372.99	308.32	310.95	2.64	683.94	36.14

* 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	4252	150	-146	-224	3474	0	-823	-148	-3.86
Haryana	4254	43	709	-161	3423	0	112	-161	-3.85
Rajasthan	5784	0	-211	6	7017	0	933	6	0.11
Delhi	2909	0	-44	57	1684	0	-478	-154	-0.03
UP	8397	1185	88	265	8532	620	605	243	6.14
Uttarakhand	1468	0	366	150	1036	0	124	150	3.60
HP	917	23	-7	-297	701	0	-84	146	0.38
J&K	1360	150	99	-248	664	0	-423	-148	-4.05
Chandigarh	175	0	-30	0	91	0	-20	0	0.00
Total	29516	1551	824	-451	26622	620	-54	-65	-1.55

* 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	1948	2082	2093	47.69	1987	46.76	0.93
	Rihand I STPS	1000	915	995	984	22.07	919	21.96	0.11
	Rihand II STPS	1000	975	1048	1042	23.65	985	23.40	0.25
	Dadri I STPS	840	758	652	666	17.08	712	13.82	3.26
	Dadri II STPS	980	973	1030	769	22.10	921	21.99	0.11
	Unchahar I TPS	440	406	439	418	9.61	400	9.14	0.46
	Unchahar II TPS	440	404	439	431	9.46	394	8.65	0.81
	Unchahar III TPS	210	202	220	217	4.73	197	4.48	0.24
	ISTPP (Jhajjar)	1000	0	0	0	0.00	0	0.00	0.00
	Dadri GPS	830	809	740	581	15.57	649	15.30	0.28
	Anta GPS	419	400	354	302	8.06	336	7.95	0.11
	Auraiya GPS	663	480	293	319	7.11	296	6.99	0.13
	Sub Total (A)	9822	8270	8292	7822	187.12	7796	180.44	6.68
B. NPC	NAPS	440	270	316	314	6.72	280	6.48	0.24
	RAPS- B	440	418	465	469	10.31	430	10.03	0.28
	RAPS- C	440	420	479	473	10.18	424	10.08	0.10
Sub Total (B)	1320	1108	1260	1256	27.21	1134	26.59	0.61	
C. NHPC	Chamera I HPS	540	534	450	0	6.97	290	6.75	0.22
	Chamera II HPS	300	297	224	0	2.91	121	2.86	0.05
	Bairasuil HPS	180	179	179	120	3.63	151	3.56	0.08
	Salal-HPS	690	329	402	302	7.84	327	7.91	-0.07
	Tanakpur-HPS	94	26	30	24	0.62	26	0.58	0.04
	Uri-HPS	480	476	476	477	11.48	478	10.80	0.68
	Dhauliganga-HPS	280	210	209	0	1.48	62	1.43	0.05
	Dulhasti-HPS	390	388	424	0	3.80	159	3.03	0.77
	Sewa-II HPS	120	119	121	80	2.76	115	2.63	0.13
Sub Total (C)	3074	2557	2515	1003	41.49	1729	39.54	1.95	
D. NJPC	Nathpa Jhakri	1500	1200	1510	0	9.78	407	9.65	0.13
	Sub Total (D)	1500	1200	1510	0	9.78	407	9.65	0.13
E. THDC	Tehri HPS	1000	570	381	0	6.05	257	6.00	0.05
	Koteshwar HPS	300	300	297	0	2.60	108	2.50	0.10
	Sub Total (E)	1300	870	678	0	8.65	360	8.50	0.15
F. BBMB	Bhakra HPS	1480	720	993	414	17.68	737	17.27	0.41
	Dehar HPS	990	286	495	330	7.34	306	6.87	0.48
	Pong HPS	396	251	306	186	6.23	260	6.02	0.21
	Sub Total (F)	2866	1257	1794	930	31.25	1302	30.16	1.09
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	0	0	0.76	32	0.77	-0.01
	KWHEP HPS(IPP)	1000	0	360	0	5.39	225	5.16	0.23
	Malana Stg-II HPS	100	0	0	0	0.00	0	0.00	0.00
	Shree Cement TPS	300	0	142	111	3.11	130	2.65	0.46
	Sub Total (G)	1592	0	502	111	9.27	386	8.58	0.68
H. Total Regional Entities (A-G)	21475	15262	16551	11122	314.76	13115	303.45	11.30	

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	1040	1040	22.96	957	
	Guru Nanak Dev TPS(Bhatinda)	440	219	219	4.64	194	
	Guru Hargobind Singh TPS(L.mbt)	920	967	968	21.28	887	
	Thermal (Total)	2620	2226	2227	48.89	2037	
	Total Hydro	1148	487	356	11.44	477	
	Total Punjab	3768	2713	2583	60.33	2514	
Haryana	Panipat TPS	1360	1001	1013	24.51	1021	
	DCRTPP (Yamuna nagar)	600	279	278	6.59	274	
	Faridabad GPS (NTPC)	432	381	419	9.78	407	
	RGTPP (kheldar) (IPP)	1200	567	570	14.01	584	
	Magnum Diesel (IPP)	25	0	0	0.00	0	
	Jhajjar(CLP)	660	0	0	0.00	0	
	Thermal (Total)	4277	2228	2280	54.88	2287	
	Total Hydro	62	21	23	0.68	29	
	Total Haryana	4339	2249	2303	55.56	2315	
	Rajasthan	kota TPS	1240	1156	1157	27.73	1155
suratgarh TPS		1500	899	1136	24.22	1009	
Chabra TPS		500	405	418	9.76	407	
Dholpur GPS		330	239	260	5.80	242	
Ramgarh GPS		113	62	67	1.62	68	
RAPS A (NPC)		300	184	192	4.52	188	
Barsingsar (NLC)		250	210	213	5.62	234	
Giral LTPS (IPP)		250	126	133	2.56	107	
Rajwest LTPS (IPP)		540	470	482	11.48	478	
VSLP LTPS (IPP)		135	0	0	0.00	0	
Thermal (Total)		5158	3751	4058	93.30	3888	
Total Hydro		550	135	130	3.28	137	
Wind power		1294	20	87	3.48	145	
Biomass		71	37	37	0.89	37	
Solar		50	0	0	0.00	0	
Renewable/Others (Total)		1365	57	124	4.37	182	
Total Rajasthan		7073	3943	4312	100.95	4206	
UP		Anpara TPS	1630	1355	1307	31.50	1313
		Obra TPS	1442	569	542	13.30	554
		Paricha TPS	640	202	237	5.30	221
	Panki TPS	210	117	131	2.80	117	
	Harduaganj TPS	415	0	0	0.40	17	
	Tanda TPS (NTPC)	440	401	397	9.76	406	
	Roza TPS (IPP)	900	283	284	6.75	281	
	Anpara-C (IPP)	1200	342	333	7.39	308	
	Bajaj Energy Pvt.Ltd(IPP) TPS	180	216	239	5.94	247	
	Thermal (Total)	7057	3485	3470	83.13	3464	
	Vishnuparyag HPS (IPP)	400	79	79	1.87	78	
	Other Hydro	527	208	55	5.19	216	
	Cogeneration	951	600	600	14.40	600	
	Total UP	8935	4372	4204	104.59	4280	
	Uttarakhand	Total Hydro	1303	487	380	10.86	453
		Total Uttarakhand	1303	487	380	10.86	453
Delhi	Rajghat TPS	135	47	71	1.24	52	
	Delhi Gas Turbine	282	75	77	1.91	79	
	Pragati Gas Turbine	330	306	265	7.20	300	
	Rithala GPS	108	27	30	0.66	28	
	Bawana GPS	440	0	0	0.00	0	
	Badarpur TPS (NTPC)	705	640	590	13.30	554	
	Thermal (Total)	2000	1095	1033	24.31	1013	
	Total Delhi	2000	1095	1033	24.31	1013	
HP	Baspa HPS (IPP)	330	0	0	0.97	40	
	Malana HPS (IPP)	101	16	11	0.52	22	
	Other Hydro	571	283	285	7.23	301	
	Total HP	1002	299	296	9	363	
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	15489	15450	372.99	15463	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			-328	1360	15.85	660	
Total Regional Availability(Gross)		50851	31712	27932	703.59	29238	

IV. Total Hydro Generation:

Regional Entities Hydro	10033	6857	1933	97.32	4055
State Control Area Hydro	5365	1968	1579	47.84	1993
Total Regional Hydro	15397	8825	3512	145.16	6048

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	-300	100	300	0.30	4.15	-3.85
Gwalior-Agra (D/C)	122	721	985	432	10.74	0.00	10.74
Zerda-Kankroli	-313	-93	0	372	0.00	4.99	-4.99
Zerda-Bhinmal	-283	-30	50	349	0.00	3.61	-3.61
Malanpur-Auraiya	-144	0	0	276	0.00	0.89	-0.89
Badod-Kota/Morak	-59	-57	0	120	0.00	1.45	-1.45
Sub Total WR	-677	241			11.04	15.08	-4.04
Pusauli Bypass	-308	-70	95	345	0.17	3.72	-3.54
MZP- GKP (D/C)	168	396	600	0	6.00	0.00	6.00
Patna-Balia(D/C)	159	502	653	0	8.20	0.00	8.20
B'Sharif-Balia (D/C)	51	232	324	0	3.54	0.00	3.54
Barh - balia(D/C)	127	0	248	0	2.99	0.00	2.99
Pusauli-Sahupuri	182	91	202	0	3.66	0.00	3.66
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	349	1119			24.56	4.66	19.90
Total IR Exch	-328	1360			35.60	19.75	15.85

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
26.85	0.18	27.03	-1.69	2.41	3.91	-9.43	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
30.83	-10.91	19.92	19.90	-4.04	15.85	-10.94	6.87	-4.07

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	0.90	9.90	98.50	89.50	19.20	0.60

<----- 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					
50.24	18.04	49.27	22.04	49.88	0.34	0.14	50.19	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	407	03:38	402	06:07	0.0	0.0	0.0	0.0
Gorakhpur	400	431	04:00	408	10:39	0.0	0.0	54.7	0.1
Bareilly	400	423	03:59	400	06:34	0.0	0.0	7.1	0.0
Kanpur	400	416	03:59	399	06:33	0.0	0.0	0.0	0.0
Dadri	400	422	03:57	407	10:16	0.0	0.0	4.8	0.0
Ballabgarh	400	426	03:59	407	06:32	0.0	0.0	13.7	0.0
Bawana	400	427	04:00	409	06:33	0.0	0.0	27.6	0.0
Bassi	400	422	04:00	400	10:18	0.0	0.0	1.7	0.0
Hissar	400	420	04:00	401	10:14	0.0	0.0	0.0	0.0
Moga	400	425	03:59	408	10:17	0.0	0.0	21.1	0.0
Abdullapur	400	431	04:00	398	10:26	0.2	0.2	58.1	0.1
Nalagarh	400	430	03:59	414	10:18	0.0	0.0	58.5	0.0
Kishenpur	400	425	00:00	403	19:25	0.0	0.0	19.0	0.0
Wagoora	400	412	03:58	384	20:22	0.0	17.6	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 (m ³ /s)	Usage (m ³ /s)
Bhakra	513.59	445.62	480.27	468.02	488.58	690.35	269.07	565.86
Pong	426.72	384.05	404.79	336.10	410.49	514.41	96.76	423.25
Tehri	829.79	740.04	773.95	251.76	818.65	982.26	53.70	172.00
Koteshwar	612.50	598.50	609.20	4.21	NA	NA	172.00	172.00
Chamera-I	760.00	748.75	NA	NA	NA	NA	192.01	189.37
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 21.03.2012 :

1. Dust storm in some parts of NR.

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 : 21.03.2012

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER