

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 09.03.2012
Date of Reporting : 10.03.2012

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
28374	1350	29724	49.82	22778	300	23078	50.12	649.3	23.14

* 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	45.50	10.86		56.37	38.31	34.34	-3.97	90.71	1.80
Haryana	51.49	0.59		52.08	27.47	43.37	15.90	95.45	0.11
Rajasthan	72.83	5.30	2.43	80.57	45.26	64.45	19.19	145.02	0.00
Delhi	21.28			21.28	40.29	28.32	-11.97	49.60	0.00
UP	86.17	6.14	14.40	106.71	84.76	82.89	-1.87	189.61	19.31
Uttarakhand		10.25		10.25	14.25	13.53	-0.72	23.77	0.03
HP		5.64		5.64	16.61	13.52	-3.09	19.16	0.00
J & K		8.24	0.00	8.24	23.00	24.48	1.48	32.72	1.90
Chandigarh				0.00	3.88	3.25	-0.62	3.25	0.00
Total	277.27	47.03	16.83	341.13	293.82	308.16	14.33	649.28	23.14

* 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	4004	150	-333	-240	3057	0	-116	-148	-4.10
Haryana	4557	0	962	-165	2914	0	79	-170	-4.05
Rajasthan	5411	0	-540	6	6122	0	2289	6	2.35
Delhi	2633	0	-22	-69	1165	0	-702	-294	-3.24
UP	7809	950	-265	265	7301	300	17	265	6.36
Uttarakhand	1324	150	66	150	619	0	-221	150	3.60
HP	908	0	-420	-324	403	0	-129	146	-0.09
J&K	1552	100	37	-48	1116	0	8	-28	-0.79
Chandigarh	176	0	-12	0	81	0	-44	0	0.00
Total	28374	1350	-527	-424	22778	300	1181	-73	0.04

* 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	2097	1698	45.68	1903	45.36	0.32
	Rihand I STPS	1000	890	964	725	20.36	848	20.13	0.23
	Rihand II STPS	1000	970	1016	744	22.12	922	21.91	0.21
	Dadri I STPS	840	782	644	457	12.73	530	12.80	-0.08
	Dadri II STPS	980	956	763	732	19.13	797	18.96	0.17
	Unchahar I TPS	440	406	396	306	8.76	365	8.63	0.13
	Unchahar II TPS	440	404	375	303	8.45	352	8.25	0.20
	Unchahar III TPS	210	202	204	154	4.30	179	4.23	0.08
	ISTPP (Jhajjar)	1000	0	0	0	0.00	0	0.00	0.00
	Dadri GPS	830	833	566	562	13.31	555	13.11	0.20
	Anta GPS	419	413	209	258	5.99	250	5.86	0.13
	Auraiya GPS	663	523	282	321	6.65	277	6.58	0.07
	Sub Total (A)	9822	8339	7516	6260	167.47	6978	165.80	1.66
B. NPC	NAPS	440	281	315	322	6.71	279	6.74	-0.04
	RAPS- B	440	423	467	471	11.09	462	10.15	0.94
	RAPS- C	440	420	462	478	10.26	427	10.08	0.18
	Sub Total (B)	1320	1124	1244	1271	28.05	1169	26.98	1.08
C. NHPC	Chamera I HPS	540	534	540	0	7.63	318	8.00	-0.37
	Chamera II HPS	300	297	207	0	1.77	74	1.88	-0.12
	Bairasuil HPS	180	179	179	0	2.47	103	2.67	-0.20
	Salal-HPS	690	262	320	195	6.16	256	6.04	0.11
	Tanakpur-HPS	94	25	31	20	0.59	24	0.55	0.04
	Uri-HPS	480	476	480	480	11.30	471	10.51	0.79
	Dhauliganga-HPS	280	210	212	0	0.79	33	1.05	-0.26
	Dulhasti-HPS	390	388	238	0	2.77	116	2.89	-0.12
	Sewa-II HPS	120	119	121	75	2.15	90	1.98	0.17
	Sub Total (C)	3074	2489	2328	770	35.63	1484	35.57	0.05
D. NJPC	Nathpa Jhakri	1500	1267	1609	0	7.01	292	7.00	0.01
	Sub Total (D)	1500	1267	1609	0	7.01	292	7.00	0.01
E. THDC	Tehri HPS	1000	820	826	0	7.49	312	7.50	-0.02
	Koteshwar HPS	300	300	290	0	2.60	108	2.60	0.00
	Sub Total (E)	1300	1120	1116	0	10.08	420	10.10	-0.02
F. BBMB	Bhakra HPS	1480	773	1151	415	19.16	798	18.56	0.60
	Dehar HPS	990	212	495	140	5.12	213	5.08	0.04
	Pong HPS	396	262	360	120	6.46	269	6.28	0.18
	Sub Total (F)	2866	1247	2006	675	30.74	1281	29.92	0.82
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	0	0	0.61	26	0.59	0.02
	KWHEP HPS(IPP)	1000	0	452	0	3.61	150	4.16	-0.55
	Malana Stg-II HPS	100	0	0	0	0.00	0	0.00	0.00
	Shree Cement TPS	300	0	118	115	2.82	118	2.78	0.05
	Sub Total (G)	1592	0	570	115	7.05	294	7.52	-0.48
H. Total Regional Entities (A-G)	21475	15585	16389	9091	286.02	11917	282.90	3.12	

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	930	880	21.52	896	
	Guru Nanak Dev TPS(Bhatinda)	440	195	199	4.19	175	
	Guru Hargobind Singh TPS(L.mbt)	920	801	786	19.79	825	
	Thermal (Total)	2620	1926	1865	45.50	1896	
	Total Hydro	1148	455	405	10.86	453	
	Total Punjab	3768	2381	2270	56.37	2349	
Haryana	Panipat TPS	1360	874	876	21.34	889	
	DCRTPP (Yamuna nagar)	600	290	289	6.69	279	
	Faridabad GPS (NTPC)	432	418	325	9.62	401	
	RGTPP (khedar) (IPP)	1200	568	568	13.84	577	
	Magnum Diesel (IPP)	25	0	0	0.00	0	
	Jhajjar(CLP)	660	0	0	0.00	0	
	Thermal (Total)	4277	2150	2058	51.49	2145	
	Total Hydro	62	21	18	0.59	25	
	Total Haryana	4339	2171	2076	52.08	2170	
	Rajasthan	kota TPS	1240	1063	571	23.70	988
suratgarh TPS		1500	1120	657	24.14	1006	
Chabra TPS		500	188	0	1.79	75	
Dholpur GPS		330	258	258	6.46	269	
Ramgarh GPS		113	41	44	1.06	44	
RAPS A (NPC)		300	184	184	4.53	189	
Barsingsar (NLC)		250	108	105	2.49	104	
Giral LTPS (IPP)		250	0	0	0.00	0	
Rajwest LTPS (IPP)		540	379	337	8.67	361	
VSLP LTPS (IPP)		135	0	0	0.00	0	
Thermal (Total)		5158	3341	2156	72.83	3035	
Total Hydro		550	257	213	5.30	221	
Wind power		1294	127	49	1.50	63	
Biomass		71	40	40	0.93	39	
Solar		50	0	0	0.00	0	
Renewable/Others (Total)		1365	167	89	2.43	101	
Total Rajasthan		7073	3765	2458	80.57	3357	
UP		Anpara TPS	1630	1512	1419	32.00	1333
		Obra TPS	1442	580	565	12.20	508
		Paricha TPS	640	260	253	5.60	233
	Panki TPS	210	165	150	3.40	142	
	Harduaganj TPS	415	44	44	0.90	38	
	Tanda TPS (NTPC)	440	403	315	9.42	393	
	Roza TPS (IPP)	900	396	392	10.94	456	
	Anpara-C (IPP)	1200	432	369	9.67	403	
	Bajaj Energy Pvt.Ltd(IPP) TPS	180	80	72	2.04	85	
	Thermal (Total)	7057	3872	3579	86.17	3590	
	Vishnuparyag HPS (IPP)	400	74	70	1.73	72	
	Other Hydro	527	147	0	4.41	184	
	Cogeneration	951	600	600	14.40	600	
	Total UP	8935	4693	4249	106.71	4374	
	Uttarakhand	Total Hydro	1303	523	365	10.25	427
Total Uttarakhand		1303	523	365	10.25	427	
Delhi	Rajghat TPS	135	107	107	2.70	113	
	Delhi Gas Turbine	282	79	38	1.50	63	
	Pragati Gas Turbine	330	307	264	7.10	296	
	Rithala GPS	108	30	24	0.65	27	
	Bawana GPS	440	0	0	0.00	0	
	Badarpur TPS (NTPC)	705	440	440	9.33	389	
	Thermal (Total)	2000	963	873	21.28	887	
	Total Delhi	2000	963	873	21.28	887	
HP	Baspa HPS (IPP)	330	30	0	0.91	38	
	Malana HPS (IPP)	101	0	0	0.30	13	
	Other Hydro	571	162	154	4.43	184	
	Total HP	1002	192	154	6	235	
J & K	Baglihar HPS (IPP)	450	296	291	6.27	261	
	Other Hydro	323	84	89	1.97	82	
	Gas/Diesel/Others	183	0	0	0.00	0	
	Total J & K	956	380	380	8.24	343	
Total State Control Area Generation		29376	15068	12825	341.13	14142	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			239	2299	37.00	1542	
Total Regional Availability(Gross)		50851	31696	24215	664.14	27601	

IV. Total Hydro Generation:

Regional Entities Hydro	10033	7511	1445	87.68	3653
State Control Area Hydro	5365	1975	1535	45.29	1887
Total Regional Hydro	15397	9486	2980	132.97	5540

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	0	0	0	0.00	0.00	0.00
Gwalior-Agra (D/C)	274	796	1014	0	18.02	0.00	18.02
Zerda-Kankroli	128	198	210	138	1.09	0.00	1.09
Zerda-Bhinmal	-76	281	325	128	3.37	0.00	3.37
Malanpur-Auraiya	-94	-68	0	169	0.00	5.29	-5.29
Badod-Kota/Morak	1	74	108	0	1.11	0.00	1.11
Sub Total WR	233	1281			23.59	5.29	18.30
Pusauli Bypass	-403	-26	44	454	0.87	2.67	-1.80
MZP- GKP (D/C)	56	360	378	62	6.09	0.00	6.09
Patna-Balia(D/C)	172	396	475	0	7.91	0.00	7.91
B'Sharif-Balia (D/C)	77	221	340	0	4.74	0.00	4.74
Barh - balia(D/C)	0	0	0	0	0.00	0.00	0.00
Pusauli-Sahupuri	134	99	147	0	2.71	0.00	2.71
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-30	-32	0	48	0.00	0.96	-0.96
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sub Total ER	6	1018			22.33	3.63	18.70
Total IR Exch	239	2299			45.92	8.92	37.00

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
27.38	0.17	27.55	0.09	1.98	1.67	-2.76	1.68	-1.68

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
30.98	-4.91	26.07	18.70	18.30	37.00	-12.29	23.21	10.92

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	0.00	3.10	96.70	93.60	40.70	3.30

<----- 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					
50.42	18.17	49.52	19.13	49.96	0.20	0.14	50.33	49.80

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	02:32	402	10:06	0.0	0.0	0.0	0.0
Gorakhpur	400	428	20:55	407	10:17	0.0	0.0	43.3	0.0
Bareilly	400	426	03:07	405	10:18	0.0	0.0	25.8	0.0
Kanpur	400	419	18:16	401	06:35	0.0	0.0	0.0	0.0
Dadri	400	425	04:02	408	09:57	0.0	0.0	23.2	0.0
Ballabgarh	400	427	03:29	408	10:18	0.0	0.0	34.6	0.0
Bawana	400	428	03:29	409	09:55	0.0	0.0	38.9	0.0
Bassi	400	424	17:32	396	06:27	0.0	0.0	6.6	0.0
Hissar	400	419	21:19	399	08:41	0.0	0.0	0.0	0.0
Moga	400	426	02:02	407	09:54	0.0	0.0	38.7	0.0
Abdullapur	400	430	04:05	297	14:52	0.1	0.1	49.5	0.0
Nalagarh	400	431	02:05	412	18:53	0.0	0.0	57.2	0.6
Kishenpur	400	421	02:01	401	19:10	0.0	0.0	0.2	0.0
Wagoora	400	400	01:54	381	19:11	0.0	41.1	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	484.66	577.33	491.30	798.09	203.97	599.78
Pong	426.72	384.05	406.50	388.64	411.58	544.90	82.15	420.02
Tehri	829.79	740.04	779.70	882.26	818.65	982.26	42.67	204.00
Koteshwar	612.50	598.50	609.15	4.21	NA	NA	200.00	185.00
Chamera-I	760.00	748.75	756.41	NA	NA	NA	146.33	207.90
Rihand	268.22	252.98	260.79	348.70	255.79	107.70	NA	NA
RPS	352.80	343.81	348.08	NA	NA	NA	NA	227.10
Jawahar Sagar	298.70	295.78	297.85	NA	NA	NA	NA	227.27
RSD	527.91	487.91	497.12	NA	504.35	NA	92.31	98.88

* NA: Not Available

IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

XI. Weather Conditions For 09.03.2012 :

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 : 09.03.2012

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER