

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 11.03.2012
Date of Reporting : 12.03.2012

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
28680	1710	30390	49.92	25672	661.5	26333	49.92	670.0	34.37

* 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	42.26	12.77		55.03	45.75	41.56	-4.18	96.59	1.80
Haryana	51.04	0.51		51.55	25.61	47.84	22.23	99.39	1.43
Rajasthan	83.37	5.23	5.94	94.54	45.48	59.86	14.38	154.40	0.34
Delhi	23.27			23.27	34.22	28.12	-6.10	51.39	0.00
UP	77.99	7.14	14.40	99.54	83.24	87.77	4.53	187.30	28.16
Uttarakhand		9.89		9.89	13.90	15.78	1.88	25.66	0.74
HP		5.29		5.29	17.00	16.18	-0.82	21.48	0.00
J & K		8.08	0.00	8.08	21.40	22.85	1.45	30.93	1.90
Chandigarh				0.00	3.42	2.90	-0.52	2.90	0.00
Total	277.93	48.91	20.34	347.19	290.00	322.85	32.85	670.04	34.37

* 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	4370	150	-382	-240	3509	0	-128	-148	-4.10
Haryana	4436	0	997	-173	3633	12	724	-173	-4.15
Rajasthan	5700	0	133	6	6652	0	1162	6	2.35
Delhi	2714	0	39	-201	1311	0	-312	-426	-6.33
UP	7696	1310	-137	265	7622	650	342	265	6.36
Uttarakhand	1252	150	50	150	899	0	75	150	3.60
HP	888	0	-375	-324	702	0	138	146	-0.09
J&K	1469	100	52	-20	1265	0	188	-20	-0.48
Chandigarh	156	0	-23	0	78	0	-24	0	0.00
Total	28680	1710	354	-537	25672	661.5	2166	-200	-2.84

* 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	1960	2104	2107	47.67	1986	47.04	0.63
	Rihand I STPS	1000	890	966	969	21.56	898	21.34	0.22
	Rihand II STPS	1000	975	1023	1038	23.55	981	23.30	0.25
	Dadri I STPS	840	780	673	648	15.98	666	16.06	-0.08
	Dadri II STPS	980	956	918	845	21.38	891	21.13	0.25
	Unchahar I TPS	440	299	349	297	6.95	290	6.89	0.06
	Unchahar II TPS	440	299	347	293	6.97	290	6.66	0.31
	Unchahar III TPS	210	150	133	133	3.49	145	3.36	0.13
	ISTPP (Jhajjar)	1000	0	0	0	0.00	0	0.00	0.00
	Dadri GPS	830	834	604	628	14.22	593	14.42	-0.20
	Anta GPS	419	413	205	281	6.42	268	6.22	0.20
	Auraiya GPS	663	483	280	329	7.23	301	7.29	-0.07
	Sub Total (A)	9822	8039	7602	7568	175.42	7309	173.72	1.70
B. NPC	NAPS	440	284	312	320	6.75	281	6.82	-0.07
	RAPS- B	440	426	466	468	10.13	422	10.22	-0.10
	RAPS- C	440	420	471	475	10.19	425	10.08	0.11
	Sub Total (B)	1320	1130	1249	1263	27.07	1128	27.12	-0.05
C. NHPC	Chamera I HPS	540	534	540	0	5.86	244	5.91	-0.04
	Chamera II HPS	300	297	93	0	1.36	57	1.28	0.07
	Bairasuil HPS	180	179	179	0	2.10	88	2.03	0.07
	Salal-HPS	690	288	335	201	5.44	227	5.72	-0.28
	Tanakpur-HPS	94	24	28	19	0.52	22	0.55	-0.02
	Uri-HPS	480	435	480	480	11.30	471	10.11	1.19
	Dhauliganga-HPS	280	210	209	0	0.83	35	0.80	0.03
	Dulhasti-HPS	390	388	405	0	2.75	115	2.70	0.06
	Sewa-II HPS	120	119	116	81	2.34	97	2.27	0.07
	Sub Total (C)	3074	2474	2385	781	32.51	1355	31.37	1.14
D. NJPC	Nathpa Jhakri	1500	1267	1592	0	6.85	285	7.00	-0.15
	Sub Total (D)	1500	1267	1592	0	6.85	285	7.00	-0.15
E. THDC	Tehri HPS	1000	698	600	0	7.45	311	7.50	-0.05
	Koteshwar HPS	300	300	297	0	2.62	109	2.60	0.01
	Sub Total (E)	1300	998	897	0	10.07	420	10.10	-0.03
F. BBMB	Bhakra HPS	1480	776	994	415	18.92	788	18.63	0.29
	Dehar HPS	990	175	495	0	4.01	167	4.20	-0.19
	Pong HPS	396	184	366	126	5.85	244	4.41	1.44
	Sub Total (F)	2866	1135	1855	541	28.78	1199	27.24	1.54
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	0	0	0.35	15	0.34	0.01
	KWHEP HPS(IPP)	1000	0	400	0	3.70	154	4.19	-0.49
	Malana Stg-II HPS	100	0	0	0	0.00	0	0.00	0.00
	Shree Cement TPS	300	0	117	117	2.84	119	2.78	0.07
	Sub Total (G)	1592	0	517	117	6.90	287	7.31	-0.41
H. Total Regional Entities (A-G)	21475	15042	16097	10270	287.59	11983	283.86	3.73	

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	835	825	18.49	770
	Guru Nanak Dev TPS(Bhatinda)	440	111	111	2.32	97
	Guru Hargobind Singh TPS(L.mbt)	920	951	967	21.46	894
	Thermal (Total)	2620	1897	1903	42.26	1761
	Total Hydro	1148	592	410	12.77	532
	Total Punjab	3768	2489	2313	55.03	2293
Haryana	Panipat TPS	1360	859	867	20.97	874
	DCRTPP (Yamuna nagar)	600	287	289	6.60	275
	Faridabad GPS (NTPC)	432	413	356	9.78	408
	RGTPP (khedar) (IPP)	1200	555	558	13.68	570
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	660	0	0	0.00	0
	Thermal (Total)	4277	2114	2070	51.04	2127
	Total Hydro	62	21	20	0.51	21
	Total Haryana	4339	2135	2090	51.55	2148
Rajasthan	kota TPS	1240	1071	1130	27.25	1135
	suratgarh TPS	1500	800	1148	24.03	1001
	Chabra TPS	500	193	217	5.26	219
	Dholpur GPS	330	300	286	7.00	292
	Ramgarh GPS	113	51	42	1.17	49
	RAPS A (NPC)	300	184	187	4.52	188
	Barsingsar (NLC)	250	204	138	4.68	195
	Giral LTPS (IPP)	250	46	0	0.92	38
	Rajwest LTPS (IPP)	540	341	332	8.55	356
	VSLP LTPS (IPP)	135	0	0	0.00	0
	Thermal (Total)	5158	3190	3480	83.37	3474
	Total Hydro	550	213	190	5.23	218
	Wind power	1294	110	238	5.09	212
	Biomass	71	35	35	0.85	35
	Solar	50	0	0	0.00	0
	Renewable/Others (Total)	1365	145	273	5.94	248
	Total Rajasthan	7073	3548	3943	94.54	3939
	UP	Anpara TPS	1630	1211	1248	29.10
Obra TPS		1442	523	560	13.00	542
Paricha TPS		640	239	231	5.70	238
Panki TPS		210	117	140	2.90	121
Harduaganj TPS		415	0	41	0.50	21
Tanda TPS (NTPC)		440	400	401	9.81	409
Roza TPS (IPP)		900	281	284	6.75	281
Anpara-C (IPP)		1200	432	0	7.69	320
Bajaj Energy Pvt.Ltd(IPP) TPS		180	79	79	2.55	106
Thermal (Total)		7057	3282	2984	77.99	3250
Vishnuparyag HPS (IPP)		400	69	69	1.59	66
Other Hydro		527	256	56	5.55	231
Cogeneration		951	600	600	14.40	600
Total UP		8935	4207	3709	99.54	4081
Uttarakhand		Total Hydro	1303	543	316	9.89
	Total Uttarakhand	1303	543	316	9.89	412
Delhi	Rajghat TPS	135	108	108	2.49	104
	Delhi Gas Turbine	282	77	78	1.87	78
	Pragati Gas Turbine	330	303	267	7.08	295
	Rithala GPS	108	30	30	0.65	27
	Bawana GPS	440	0	0	0.00	0
	Badarpur TPS (NTPC)	705	510	510	11.18	466
	Thermal (Total)	2000	1028	993	23.27	970
	Total Delhi	2000	1028	993	23.27	970
HP	Baspa HPS (IPP)	330	0	0	0.91	38
	Malana HPS (IPP)	101	0	0	0.21	9
	Other Hydro	571	185	100	4.17	174
	Total HP	1002	185	100	5	221
J & K	Baglihar HPS (IPP)	450	238	234	5.67	236
	Other Hydro	323	95	105	2.41	101
	Gas/Diesel/Others	183	0	0	0.00	0
	Total J & K	956	333	339	8.08	337
Total State Control Area Generation		29376	14468	13803	347.19	14400
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			1136	2857	60.96	2540
Total Regional Availability(Gross)		50851	31701	26930	695.73	28923

IV. Total Hydro Generation:

Regional Entities Hydro	10033	7129	1322	82.26	3427
State Control Area Hydro	5365	2143	1431	47.33	1972
Total Regional Hydro	15397	9272	2753	129.58	5399

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	-100	0	100	0	0.73	0.39	0.34
Gwalior-Agra (D/C)	494	1155	1202	0	22.18	0.00	22.18
Zerda-Kankroli	-13	88	186	54	1.13	0.00	1.13
Zerda-Bhinmal	53	194	326	12	3.53	0.00	3.53
Malanpur-Auraiya	-65	-28	0	131	0.00	0.58	-0.58
Badod-Kota/Morak	35	93	110	0	1.56	0.00	1.56
Sub Total WR	404	1502			29.12	0.97	28.16
Pusauli Bypass	-123	32	131	139	1.48	0.55	0.93
MZP- GKP (D/C)	235	383	450	0	7.88	0.00	7.88
Patna-Balia(D/C)	336	246	433	0	7.51	0.00	7.51
B'Sharif-Balia (D/C)	207	266	693	0	8.15	0.00	8.15
Barh - balia(D/C)	0	343	445	0	6.83	0.00	6.83
Pusauli-Sahupuri	107	117	153	0	2.63	0.00	2.63
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-30	-32	0	48	0.00	1.14	-1.14
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sub Total ER	732	1355			34.49	1.68	32.80
Total IR Exch	1136	2857			63.61	2.65	60.96

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
23.73	0.16	23.89	-1.02	0.06	1.84	-0.98	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
26.29	-4.79	21.49	32.80	28.16	60.96	6.52	32.95	39.47

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	0.30	12.30	97.70	85.70	13.40	2.00

<----- 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					
50.39	17.02	49.47	8.42	49.85	0.43	0.15	50.35	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	408	18:02	397	09:27	0.0	0.0	0.0	0.0
Gorakhpur	400	430	16:04	412	00:08	0.0	0.0	42.7	0.0
Bareilly	400	426	21:52	403	12:07	0.0	0.0	13.6	0.0
Kanpur	400	419	21:45	398	12:17	0.0	0.0	0.0	0.0
Dadri	400	423	21:42	402	12:19	0.0	0.0	2.8	0.0
Ballabgarh	400	427	21:45	401	12:18	0.0	0.0	17.8	0.0
Bawana	400	426	21:42	402	12:15	0.0	0.0	26.2	0.0
Bassi	400	427	21:46	398	00:16	0.0	0.0	8.8	0.0
Hissar	400	419	21:42	394	10:10	0.0	0.0	0.0	0.0
Moga	400	427	18:01	407	10:07	0.0	0.0	28.0	0.0
Abdullapur	400	428	20:52	285	09:41	0.9	0.9	36.0	0.0
Nalagarh	400	427	18:01	409	12:15	0.0	0.0	52.1	0.0
Kishenpur	400	420	04:01	404	19:16	0.0	0.0	0.0	0.0
Wagoora	400	408	13:01	381	19:19	0.0	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	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 11.03.2012 :

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 : 11.03.2012

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER