

पावर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 12.01.2012
Date of Reporting : 13.01.2012

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
30887	4668	35555	49.76	25113	650	25763	50.15	680.0	65.22

* 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:

UI [OD:(+ve), UD:(-ve)]

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	47.54	11.34		58.88	31.90	32.90	1.00	91.78	2.48
Haryana	54.03	0.62		54.65	25.45	30.28	4.83	84.93	12.49
Rajasthan	89.89	4.27	5.69	99.85	50.61	55.81	5.20	155.65	8.35
Delhi	28.80			28.80	33.54	35.55	2.01	64.35	1.77
UP	77.67	6.40	15.60	99.67	82.69	89.28	6.60	188.95	37.66
Uttarakhand		7.78		7.78	19.76	22.79	3.03	30.57	0.58
HP		4.53		4.53	20.31	19.79	-0.52	24.32	0.00
J & K		4.92	0.00	4.92	24.22	30.84	6.62	35.77	1.90
Chandigarh				0.00	3.35	3.68	0.33	3.68	0.00
Total	297.93	39.86	21.29	359.07	291.81	320.92	29.11	679.99	65.22

* Shortage furnished by the respective constituent.\$ Others include UP Co-generation and JK Diesel

II. B. State's Demand Met in MWs:

UI/OA/PX [OD/Import: (+ve), UD/Export: (-ve)]

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	STOA/PX transaction
Punjab	4466	600	-2	-333	3572	0	601	-581	-8.01
Haryana	3734	1358	169	-201	2980	0	-288	-201	-4.49
Rajasthan	6648	743	475	180	6286	0	440	305	8.16
Delhi	3402	2	-172	-25	1500	0	-93	-340	-3.13
UP	8230	1795	-163	265	7517	650	651	265	6.36
Uttarakhand	1394	70	3	430	1064	0	61	430	10.32
HP	1171	0	-357	24	769	0	19	405	6.65
J&K	1639	100	55	301	1334	0	199	296	6.59
Chandigarh	204	0	-4	0	92	0	-2	-30	-0.24
Total	30887	4668	4	640	25113	650	1588	548	22.22

* STOA figures are at sellers boundary & PX figures are at regional boundary.

III. Regional Entities :

UI [OG:(+ve), UG:(-ve)]

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	1750	1871	1885	42.00	1750	41.90	0.09
Rihand I STPS	1000	490	475	798	11.75	490	11.40	0.35
Rihand II STPS	1000	977	1044	936	23.38	974	22.90	0.48
Dadri I STPS	840	585	852	602	14.16	590	13.93	0.23
Dadri II STPS	980	697	1000	676	16.81	701	16.73	0.08
Unchahar I TPS	440	379	435	332	8.93	372	8.79	0.14
Unchahar II TPS	440	379	439	301	8.76	365	8.50	0.26
Unchahar III TPS	210	189	219	156	4.02	167	4.28	-0.27
ISTPP (Jhajjar)	1000	475	416	388	9.90	413	9.78	0.13
Dadri GPS	830	844	780	517	17.29	720	17.50	-0.21
Anta GPS	419	433	364	322	9.10	379	8.90	0.20
Auraiya GPS	663	660	377	284	8.26	344	8.63	-0.37
Sub Total (A)	9822	7857	8272	7197	174.36	7265	173.25	1.11
B. NPC								
NAPS	440	242	276	279	5.78	241	5.81	-0.03
RAPS- B	440	429	471	475	10.27	428	10.30	-0.03
RAPS- C	440	420	473	477	10.23	426	10.08	0.15
Sub Total (B)	1320	1091	1220	1231	26.27	1095	26.18	0.09
C. NHPC								
Chamera I HPS	540	0	0	0	0.00	0	0.00	0.00
Chamera II HPS	300	297	260	0	1.13	47	1.17	-0.03
Bairasuil HPS	180	179	20	0	0.51	21	0.46	0.05
Salal-HPS	690	128	90	30	2.82	118	2.84	-0.01
Tanakpur-HPS	94	31	32	22	0.73	31	0.73	0.00
Uri-HPS	480	116	210	70	2.50	104	2.38	0.13
Dhauliganga-HPS	280	210	141	0	0.94	39	0.93	0.01
Dulhasti-HPS	390	388	350	0	2.63	110	2.00	0.63
Sewa-II HPS	120	119	40	0	0.40	17	0.38	0.02
Sub Total (C)	3074	1467	1143	122	11.67	486	10.87	0.79
D. NJPC								
Nathpa Jhakri	1500	1133	1480	0	6.58	274	6.60	-0.02
Sub Total (D)	1500	1133	1480	0	6.58	274	6.60	-0.02
E. THDC								
Tehri HPS	1000	1000	901	0	8.57	357	8.50	0.07
Koteshwar HPS	200	119	204	0	2.95	123	2.90	0.05
Sub Total (E)	1200	1119	1105	0	11.52	480	11.40	0.12
F. BBMB								
Bhakra HPS	1480	691	945	523	17.07	711	16.58	0.49
Dehar HPS	990	148	495	0	3.55	148	3.54	0.01
Pong HPS	396	138	306	66	3.57	149	3.30	0.26
Sub Total (F)	2866	976	1746	589	24.19	1008	23.42	0.76
G. IPP(s)/JV(s)								
ADHPL HPS(IPP)	192	0	0	0	0.27	11	0.24	0.03
KWHEP HPS(IPP)	1000	0	125	0	3.75	156	3.72	0.03
Malana Stg-II HPS	100	0	0	0	0.00	0	0.00	0.00
Shree Cement TPS	150	0	228	190	4.75	198	4.69	0.06
Sub Total (G)	1442	0	353	190	8.77	365	8.65	0.12
H. Total Regional Entities (A-G)	21225	13643	15319	9329	263.35	10973	260.38	2.97

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	1050	740	21.70	904
	Guru Nanak Dev TPS(Bhatinda)	440	215	216	4.63	193
	Guru Hargobind Singh TPS(L.mbt)	920	961	959	21.21	884
	Thermal (Total)	2620	2226	1915	47.54	1981
	Total Hydro	1148	558	370	11.34	473
	Total Punjab	3768	2784	2285	58.88	2453
Haryana	Panipat TPS	1360	931	1033	24.01	1000
	DCRTPP (Yamuna nagar)	600	279	280	6.58	274
	Faridabad GPS (NTPC)	432	434	450	10.72	447
	RGTPP (kheldar) (IPP)	1200	459	523	12.72	530
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Thermal (Total)	3617	2103	2286	54.03	2251
	Total Hydro	62	23	20	0.62	26
Total Haryana	3679	2126	2306	54.65	2277	
Rajasthan	kota TPS	1240	1165	1169	27.72	1155
	suratgarh TPS	1500	1156	1149	27.07	1128
	Chabra TPS	500	387	447	10.33	431
	Dholpur GPS	330	200	228	5.72	239
	Ramgarh GPS	113	59	56	1.46	61
	RAPS A (NPC)	300	179	186	4.55	190
	Barsingsar (NLC)	250	170	155	4.38	182
	Giral LTPS (IPP)	250	30	30	0.54	22
	Rajwest LTPS (IPP)	540	320	310	8.11	338
	VSLP LTPS (IPP)	135	0	0	0.00	0
	Thermal (Total)	5158	3666	3730	89.89	3745
	Total Hydro	550	163	136	4.27	178
	Wind power	1294	18	6	0.45	19
	Biomass	71	40	40	0.97	40
	Solar	50	0	0	0.00	0
	Renewable/Others (Total)	1365	58	46	5.69	237
	Total Rajasthan	7073	3887	3912	99.85	4160
UP	Anpara TPS	1630	1352	1247	28.00	1167
	Obra TPS	1442	485	640	13.00	542
	Paricha TPS	640	209	207	4.50	188
	Panki TPS	210	160	180	3.50	146
	Harduaganj TPS	415	40	42	0.90	38
	Tanda TPS (NTPC)	440	403	402	9.79	408
	Roza TPS (IPP)	900	567	292	11.70	488
	Anpara-C (IPP)	1200	403	0	3.45	144
	Bajaj Energy Pvt.Ltd(IPP) TPS	180	113	124	2.83	118
	Thermal (Total)	7057	3732	3134	77.67	3236
	Vishnuparyag HPS (IPP)	400	85	89	2.02	84
	Other Hydro	527	233	45	4.38	183
	Cogeneration	951	650	650	15.60	650
Total UP	8935	4700	3918	99.67	4069	
Uttarakhand	Total Hydro	1303	412	256	7.78	324
	Total Uttarakhand	1303	412	256	7.78	324
Delhi	Rajghat TPS	135	48	50	1.33	55
	Delhi Gas Turbine	282	239	155	5.13	214
	Pragati Gas Turbine	330	314	263	7.47	311
	Rithala GPS	108	19	33	0.39	16
	Bawana GPS	440	155	36	3.44	143
	Badarpur TPS (NTPC)	705	485	570	11.04	460
	Thermal (Total)	2000	1260	1133	28.80	1200
	Total Delhi	2000	1260	1133	28.80	1200
HP	Baspa HPS (IPP)	330	0	0	1.20	50
	Malana HPS (IPP)	101	0	0	0.21	9
	Other Hydro	571	177	51	3.12	130
	Total HP	1002	177	51	5	189
J & K	Baglihar HPS (IPP)	450	143	145	3.47	145
	Other Hydro	323	26	125	1.45	60
	Gas/Diesel/Others	183	0	0	0.00	0
	Total J & K	956	169	270	4.92	205
Total State Control Area Generation		28716	15515	14131	359.07	14877
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			1776	2235	70.61	2942
Total Regional Availability(Gross)		49941	32610	25695	693.03	28792

IV. Total Hydro Generation:

Regional Entities Hydro	10083	5827	901	62.72	2613
State Control Area Hydro	5365	1735	1148	37.84	1577
Total Regional Hydro	15447	7562	2049	100.56	4190

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	200	0	300	0	1.89	0.00	1.89
Gwalior-Agra (D/C)	368	826	1161	0	20.26	0.00	20.26
Zerda-Kankroli	-130	-30	97	138	0.00	0.14	-0.14
Zerda-Bhinmal	-50	115	279	99	2.68	0.00	2.68
Malanpur-Auraiya	-146	-27	0	146	0.00	0.64	-0.64
Badod-Kota/Morak	-44	48	82	114	0.13	0.00	0.13
Sub Total WR	198	932			24.96	0.78	24.18
Pusaali Bypass	65	95	466	62	3.98	0.07	3.91
MZP- GKP (D/C)	419	415	788	0	13.54	0.00	13.54
Patna-Balia(D/C)	209	381	794	0	12.62	0.00	12.62
B'Sharif-Balia (D/C)	466	357	742	0	9.52	0.00	9.52
Barh - balia(D/C)	317	0	437	0	4.87	0.00	4.87
Pusaali-Sahupuri	132	87	183	0	2.89	0.00	2.89
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-30	-32	0	48	0.00	0.93	-0.93
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sub Total ER	1578	1303			47.42	1.00	46.43
Total IR Exch	1776	2235			72.38	1.77	70.61

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
23.10	0.33	23.43	11.56	12.79	0.51	11.13	2.77	-2.77

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
38.27	14.85	53.12	46.43	24.18	70.61	8.16	9.33	17.49

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	0.60	14.90	47.20	84.50	52.20	14.30	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					
50.23	4.07	49.13	9.12	49.74	1.20	0.23	50.24	49.44

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	414	4:02	400	15:47	0.0	0.0	0.0	0.0
Gorakhpur	400	432	17:31	406	6:15	0.0	0.0	34.3	1.9
Bareilly	400	426	3:04	398	14:18	0.0	0.0	15.1	0.0
Kanpur	400	422	3:44	399	6:15	0.0	0.0	3.6	0.0
Dadri	400	421	3:44	398	14:17	0.0	0.0	0.9	0.0
Ballabgarh	400	427	3:44	400	14:17	0.0	0.0	14.9	0.0
Bawana	400	425	3:44	401	10:53	0.0	0.0	13.2	0.0
Bassi	400	425	4:05	397	12:12	0.0	0.0	2.9	0.0
Hissar	400	414	4:04	392	11:06	0.0	0.0	0.0	0.0
Moga	400	423	3:51	400	14:20	0.0	0.0	8.3	0.0
Abdullapur	400	425	3:44	398	14:10	56.6	56.6	13.8	0.0
Nalagarh	400	427	2:01	404	10:39	0.0	0.0	25.2	0.0
Kishenpur	400	411	23:58	391	14:20	0.0	0.0	0.0	0.0
Wagoora	400	404	3:52	369	14:31	29.4	70.4	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	499.92	1086.42	502.69	1205.87	167.86	481.64
Pong	426.72	384.05	412.55	588.94	416.08	718.14	69.57	219.31
Tehri	829.79	740.04	806.50	724.19	818.65	982.26	52.25	203.00
Koteswar	612.50	598.50	608.50	3.76	NA	NA	170.00	162.00
Chamera-I	760.00	748.75	751.07	NA	750.49	NA	53.66	NA
Rihand	268.22	252.98	263.44	508.00	257.04	159.40	NA	NA
RPS	352.80	343.81	349.83	NA	348.47	NA	NA	157.92
Jawahar Sagar	298.70	295.78	297.55	NA	297.85	NA	NA	200.14
RSD	527.91	487.91	508.14	NA	511.12	NA	14.72	235.74

* NA: Not Available
IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

XI. Weather Conditions For 12.01.2012 :
1. Normal & Cold 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 : 12.01.2012

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER