

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 13.01.2012
Date of Reporting : 14.01.2012

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
30046	5509	35555	49.74	25052	650	25702	50.06	681.1	66.92

* 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	52.34	11.17		63.50	29.52	26.04	-3.49	89.54	2.48
Haryana	50.81	0.59		51.40	24.97	39.98	15.01	91.37	18.16
Rajasthan	89.61	5.18	9.46	104.25	49.21	55.28	6.07	159.53	6.65
Delhi	28.71			28.71	40.95	38.06	-2.89	66.77	0.20
UP	82.05	6.60	15.60	104.25	81.47	75.97	-5.50	180.22	36.76
Uttarakhand		7.85		7.85	19.78	22.51	2.73	30.36	0.54
HP		4.23		4.23	20.09	19.50	-0.59	23.74	0.24
J & K		5.68	0.00	5.68	23.61	30.31	6.70	35.99	1.90
Chandigarh				0.00	3.30	3.62	0.32	3.62	0.00
Total	303.51	41.29	25.06	369.86	292.90	311.27	18.37	681.13	66.92

* 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	4106	600	-291	-333	2991	0	-379	-581	-8.01
Haryana	3789	1529	306	-185	3574	0	620	-201	-4.41
Rajasthan	6593	707	316	180	6336	0	543	305	8.16
Delhi	3399	2	-78	-25	1481	0	-42	-340	-3.13
UP	7737	2450	-536	265	7472	650	210	265	6.36
Uttarakhand	1507	80	101	430	1042	0	78	430	10.32
HP	1094	41	-409	24	765	0	17	405	6.65
J&K	1623	100	4	252	1303	0	225	296	6.35
Chandigarh	198	0	-8	0	88	0	0	-30	-0.24
Total	30046	5509	-594	607	25052	650	1272	548	22.05

* 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	1750	1869	1888	42.73	1780	42.00	0.73
	Rihand I STPS	1000	425	476	410	10.12	421	10.01	0.11
	Rihand II STPS	1000	977	1045	932	23.35	973	23.01	0.34
	Dadri I STPS	840	614	640	628	14.84	618	14.74	0.09
	Dadri II STPS	980	736	760	704	17.63	735	17.65	-0.02
	Unchahar I TPS	440	348	437	353	8.20	342	8.09	0.11
	Unchahar II TPS	440	383	441	312	9.12	380	8.72	0.40
	Unchahar III TPS	210	192	221	158	4.54	189	4.39	0.15
	ISTPP (Jhajjar)	1000	475	428	359	9.63	401	9.55	0.09
	Dadri GPS	830	846	699	524	17.33	722	17.35	-0.02
	Anta GPS	419	433	427	300	8.95	373	8.53	0.42
	Auraiya GPS	663	661	488	270	10.76	448	10.74	0.02
	Sub Total (A)	9822	7839	7931	6838	177.20	7383	174.78	2.42
	B. NPC	NAPS	440	242	277	280	5.75	240	5.81
RAPS- B		440	427	471	471	10.23	426	10.25	-0.02
RAPS- C		440	420	468	473	10.16	423	10.08	0.07
Sub Total (B)		1320	1089	1216	1224	26.14	1089	26.14	0.00
C. NHPC	Chamera I HPS	540	0	0	0	0.00	0	0.00	0.00
	Chamera II HPS	300	297	197	0	1.16	48	1.14	0.01
	Bairasuil HPS	180	179	120	0	0.48	20	0.42	0.06
	Salal-HPS	690	124	212	30	2.74	114	2.76	-0.02
	Tanakpur-HPS	94	29	32	20	0.69	29	0.70	-0.01
	Uri-HPS	480	133	163	42	2.43	101	1.69	0.74
	Dhauliganga-HPS	280	210	69	0	0.82	34	0.84	-0.02
	Dulhasti-HPS	390	388	135	0	2.73	114	1.99	0.75
	Sewa-II HPS	120	119	39	0	0.33	14	0.31	0.02
	Sub Total (C)	3074	1478	967	92	11.38	474	9.85	1.53
D. NJPC	Nathpa Jhakri	1500	1133	1188	0	6.57	274	6.60	-0.03
	Sub Total (D)	1500	1133	1188	0	6.57	274	6.60	-0.03
E. THDC	Tehri HPS	1000	1000	896	0	8.54	356	8.50	0.04
	Koteshwar HPS	200	119	203	0	3.06	128	3.00	0.06
	Sub Total (E)	1200	1119	1099	0	11.60	483	11.50	0.10
F. BBMB	Bhakra HPS	1480	699	944	523	17.08	712	16.77	0.31
	Dehar HPS	990	117	495	0	2.99	125	2.80	0.19
	Pong HPS	396	128	306	60	3.31	138	3.08	0.23
	Sub Total (F)	2866	944	1745	583	23.38	974	22.66	0.72
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	0	0	0.31	13	0.29	0.02
	KWHEP HPS(IPP)	1000	0	250	0	3.56	148	3.48	0.08
	Malana Stg-II HPS	100	0	0	0	0.00	0	0.00	0.00
	Shree Cement TPS	150	0	284	184	5.26	219	4.69	0.57
	Sub Total (G)	1442	0	534	184	9.13	380	8.46	0.67
H. Total Regional Entities (A-G)	21225	13603	14680	8921	265.39	11058	259.99	5.41	

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	1250	1050	26.41	1100
	Guru Nanak Dev TPS(Bhatinda)	440	215	215	4.60	192
	Guru Hargobind Singh TPS(L.mbt)	920	966	948	21.33	889
	Thermal (Total)	2620	2431	2213	52.34	2181
	Total Hydro	1148	367	370	11.17	465
	Total Punjab	3768	2798	2583	63.50	2646
Haryana	Panipat TPS	1360	828	863	20.85	869
	DCRTPP (Yamuna nagar)	600	251	271	6.52	272
	Faridabad GPS (NTPC)	432	429	355	10.10	421
	RGTPP (kheldar) (IPP)	1200	525	620	13.33	555
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Thermal (Total)	3617	2033	2109	50.81	2117
	Total Hydro	62	25	22	0.59	25
	Total Haryana	3679	2058	2131	51.40	2142
Rajasthan	kota TPS	1240	1168	1168	27.67	1153
	suratgarh TPS	1500	1147	1158	27.05	1127
	Chabra TPS	500	439	387	10.60	442
	Dholpur GPS	330	230	200	4.87	203
	Ramgarh GPS	113	66	66	1.63	68
	RAPS A (NPC)	300	175	183	4.49	187
	Barsingsar (NLC)	250	207	170	5.04	210
	Giral LTPS (IPP)	250	31	30	0.53	22
	Rajwest LTPS (IPP)	540	320	320	7.74	322
	VSLP LTPS (IPP)	135	0	0	0.00	0
	Thermal (Total)	5158	3783	3682	89.61	3734
	Total Hydro	550	246	142	5.18	216
	Wind power	1294	69	93	3.46	144
	Biomass	71	34	34	0.82	34
	Solar	50	0	0	0.00	0
	Renewable/Others (Total)	1365	103	127	9.46	394
	Total Rajasthan	7073	4132	3951	104.25	4344
	UP	Anpara TPS	1630	1299	1355	28.90
Obra TPS		1442	470	473	10.10	421
Paricha TPS		640	218	215	4.60	192
Panki TPS		210	150	155	3.20	133
Harduaganj TPS		415	0	40	0.40	17
Tanda TPS (NTPC)		440	402	400	9.85	410
Roza TPS (IPP)		900	446	446	10.80	450
Anpara-C (IPP)		1200	495	495	11.95	498
Bajaj Energy Pvt.Ltd(IPP) TPS		180	89	113	2.26	94
Thermal (Total)		7057	3569	3692	82.05	3419
Vishnuparyag HPS (IPP)		400	84	79	1.99	83
Other Hydro		527	240	47	4.61	192
Cogeneration		951	650	650	15.60	650
Total UP		8935	4543	4468	104.25	4261
Uttarakhand		Total Hydro	1303	438	236	7.85
	Total Uttarakhand	1303	438	236	7.85	327
Delhi	Rajghat TPS	135	52	51	1.35	56
	Delhi Gas Turbine	282	159	155	4.21	175
	Pragati Gas Turbine	330	316	263	7.56	315
	Rithala GPS	108	19	33	0.42	17
	Bawana GPS	440	134	31	2.94	123
	Badarpur TPS (NTPC)	705	665	375	12.24	510
	Thermal (Total)	2000	1345	944	28.71	1196
	Total Delhi	2000	1345	944	28.71	1196
HP	Baspa HPS (IPP)	330	0	0	1.06	44
	Malana HPS (IPP)	101	0	0	0.21	9
	Other Hydro	571	172	70	2.96	123
	Total HP	1002	172	70	4	176
J & K	Baglihar HPS (IPP)	450	296	143	4.23	176
	Other Hydro	323	26	125	1.45	60
	Gas/Diesel/Others	183	0	0	0.00	0
	Total J & K	956	322	268	5.68	237
Total State Control Area Generation		28716	15808	14651	369.86	15328
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			1477	2757	65.72	2738
Total Regional Availability(Gross)		49941	31965	26329	700.98	29125

IV. Total Hydro Generation:

Regional Entities Hydro	10083	5533	859	62.06	2586
State Control Area Hydro	5365	1810	1155	39.30	1638
Total Regional Hydro	15447	7343	2014	101.37	4224

(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	150	300	100	2.56	0.11	2.45
Gwalior-Agra (D/C)	425	876	1285	0	19.54	0.00	19.54
Zerda-Kankroli	-103	-49	205	137	0.00	0.19	-0.19
Zerda-Bhinmal	-4	79	286	78	2.29	0.00	2.29
Malanpur-Auraiya	-151	-27	0	151	0.00	1.61	-1.61
Badod-Kota/Morak	-13	24	74	68	0.04	0.00	0.04
Sub Total WR	154	1053			24.42	1.90	22.51
Pusauli Bypass	-59	262	318	59	3.84	0.12	3.72
MZP- GKP (D/C)	496	520	742	0	13.80	0.00	13.80
Patna-Balia(D/C)	270	507	594	0	8.71	0.00	8.71
B'Sharif-Balia (D/C)	224	381	543	0	8.01	0.00	8.01
Barh - balia(D/C)	294	0	638	0	7.33	0.00	7.33
Pusauli-Sahupuri	128	66	166	0	2.56	0.00	2.56
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	1323	1704			44.26	1.05	43.21
Total IR Exch	1477	2757			68.68	2.95	65.72

(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
23.84	0.36	24.19	11.39	12.79	0.75	11.79	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
39.11	15.38	54.49	43.21	22.51	65.72	4.10	7.13	11.23

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	0.50	12.70	39.20	85.80	59.30	15.50	1.50

<----- 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	18.05	49.12	15.45	49.76	1.03	0.22	50.15	49.34

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	02:52	400	08:42	0.0	0.0	0.0	0.0
Gorakhpur	400	429	20:41	407	22:24	0.0	0.0	41.7	0.0
Bareilly	400	418	03:06	394	11:12	0.0	0.0	0.0	0.0
Kanpur	400	416	04:01	398	11:11	0.0	0.0	0.0	0.0
Dadri	400	416	03:04	396	10:43	0.0	0.0	0.0	0.0
Ballabgarh	400	421	04:01	395	11:04	0.0	0.0	0.3	0.0
Bawana	400	421	03:04	398	11:04	0.0	0.0	0.8	0.0
Bassi	400	421	19:00	395	06:28	0.0	0.0	0.2	0.0
Hissar	400	412	20:03	393	12:47	0.0	0.0	0.0	0.0
Moga	400	421	20:40	403	11:03	0.0	0.0	0.2	0.0
Abdullapur	400	420	20:41	401	10:30	47.1	47.1	0.0	0.0
Nalagarh	400	427	20:03	405	10:20	0.0	0.0	24.9	0.0
Kishenpur	400	416	03:52	386	11:40	0.0	0.6	0.0	0.0
Wagoora	400	398	03:31	374	10:22	43.4	84.7	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	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
Koteshwar	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 13.01.2012 :

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 : 13.01.2012

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER