

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 22.01.2012
Date of Reporting : 23.01.2012

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
30767	2416	33183	49.80	25206	650	25856	50.18	708.9	37.10

* 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	48.66	8.12		56.78	35.03	33.65	-1.38	90.43	1.80
Haryana	68.31	0.63		68.95	24.72	30.63	5.91	99.58	3.56
Rajasthan	92.28	4.53	11.75	108.56	51.03	54.39	3.37	162.95	0.57
Delhi	29.53			29.53	40.50	34.81	-5.69	64.34	0.11
UP	96.78	5.76	15.60	118.14	81.35	80.89	-0.46	199.03	29.10
Uttarakhand		8.23		8.23	19.82	22.98	3.16	31.20	0.00
HP		4.03		4.03	20.58	18.35	-2.23	22.38	0.06
J & K		4.70	0.00	4.70	24.72	30.63	5.91	35.33	1.90
Chandigarh				0.00	3.41	3.66	0.26	3.66	0.00
Total	335.56	35.99	27.35	398.90	301.15	309.99	8.84	708.90	37.10

* 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	4203	600	-198	-333	3112	0	77	-481	-7.41
Haryana	4572	286	387	-201	3612	0	98	-204	-4.53
Rajasthan	6709	0	-130	160	6335	0	178	285	8.28
Delhi	3203	40	229	-25	1532	0	57	-340	-3.13
UP	7757	1390	-1451	265	7297	650	-390	265	6.36
Uttarakhand	1518	0	22	450	1100	0	156	450	10.80
HP	1061	0	-536	24	734	0	26	405	7.25
J&K	1550	100	-63	301	1386	0	300	302	6.71
Chandigarh	194	0	-17	0	98	0	8	-30	-0.24
Total	30767	2416	-1758	639	25206	650	511	652	24.10

* 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	1592	1666	1619	38.17	1591	37.80	0.38
	Rihand I STPS	1000	805	892	723	18.80	783	18.75	0.05
	Rihand II STPS	1000	977	1036	809	22.77	949	22.74	0.03
	Dadri I STPS	840	793	667	610	15.94	664	15.96	-0.02
	Dadri II STPS	980	884	701	708	19.05	794	20.28	-1.23
	Unchahar I TPS	440	375	437	306	8.76	365	8.64	0.12
	Unchahar II TPS	440	375	440	291	8.63	360	8.38	0.25
	Unchahar III TPS	210	187	220	142	4.32	180	4.21	0.11
	ISTPP (Jhajjar)	1000	475	498	358	10.05	419	10.24	-0.19
	Dadri GPS	830	780	504	525	12.66	528	12.77	-0.11
	Anta GPS	419	433	305	279	7.61	317	7.42	0.20
	Auraiya GPS	663	662	304	278	7.29	304	7.63	-0.34
	Sub Total (A)	9822	8337	7670	6648	174.07	7253	174.82	-0.76
B. NPC	NAPS	440	128	148	151	2.96	123	3.07	-0.12
	RAPS- B	440	406	450	459	10.80	450	9.74	1.06
	RAPS- C	440	420	467	469	11.08	462	10.08	1.00
	Sub Total (B)	1320	954	1065	1079	24.84	1035	22.90	1.94
C. NHPC	Chamera I HPS	540	358	360	0	2.88	120	2.97	-0.10
	Chamera II HPS	300	297	199	0	1.21	50	1.27	-0.06
	Bairasuil HPS	180	179	120	0	0.53	22	0.55	-0.02
	Salal-HPS	690	139	226	30	2.87	120	2.87	0.00
	Tanakpur-HPS	94	30	31	24	0.63	26	0.67	-0.05
	Uri-HPS	480	130	235	40	3.03	126	3.26	-0.23
	Dhauliganga-HPS	280	210	138	0	0.92	38	0.94	-0.02
	Dulhasti-HPS	390	388	402	0	2.40	100	2.07	0.33
	Sewa-II HPS	120	119	120	0	0.39	16	0.40	-0.01
	Sub Total (C)	3074	1849	1831	94	14.86	619	15.01	-0.15
D. NJPC	Nathpa Jhakri	1500	956	1217	0	6.10	254	6.19	-0.09
	Sub Total (D)	1500	956	1217	0	6.10	254	6.19	-0.09
E. THDC	Tehri HPS	1000	990	984	0	8.61	359	8.75	-0.14
	Koteshwar HPS	200	119	202	0	2.80	117	2.80	0.00
	Sub Total (E)	1200	1109	1186	0	11.41	475	11.55	-0.14
F. BBMB	Bhakra HPS	1480	685	945	572	16.87	703	16.44	0.43
	Dehar HPS	990	136	495	0	3.14	131	3.27	-0.13
	Pong HPS	396	120	246	0	3.02	126	2.89	0.13
	Sub Total (F)	2866	941	1686	572	23.03	960	22.59	0.44
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	0	0	0.22	9	0.20	0.02
	KWHEP HPS(IPP)	1000	0	350	0	2.94	123	3.40	-0.46
	Malana Stg-II HPS	100	0	0	0	0.00	0	0.00	0.00
	Shree Cement TPS	150	0	143	144	3.46	144	3.45	0.02
	Sub Total (G)	1442	0	493	144	6.63	276	7.05	-0.42
H. Total Regional Entities (A-G)	21225	14147	15148	8537	260.93	10872	260.11	0.81	

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	1035	905	22.48	937	
	Guru Nanak Dev TPS(Bhatinda)	440	217	217	4.71	196	
	Guru Hargobind Singh TPS(L.mbt)	920	966	691	21.48	895	
	Thermal (Total)	2620	2218	1813	48.66	2027	
	Total Hydro	1148	374	156	8.12	338	
	Total Punjab	3768	2592	1969	56.78	2366	
Haryana	Panipat TPS	1360	959	1056	24.39	1016	
	DCRTPP (Yamuna nagar)	600	273	270	6.69	279	
	Faridabad GPS (NTPC)	432	452	287	9.66	402	
	RGTPP (kheldar) (IPP)	1200	1054	1079	27.58	1149	
	Magnum Diesel (IPP)	25	0	0	0.00	0	
	Jhajjar(CLP)	660	0	0	0.00	0	
	Thermal (Total)	4277	2738	2692	68.31	2846	
	Total Hydro	62	26	23	0.63	26	
	Total Haryana	4339	2764	2715	68.95	2873	
	Rajasthan	kota TPS	1240	985	984	23.21	967
suratgarh TPS		1500	1364	1343	32.53	1355	
Chabra TPS		500	351	430	9.13	381	
Dholpur GPS		330	250	250	5.46	228	
Ramgarh GPS		113	43	45	1.13	47	
RAPS A (NPC)		300	183	184	4.56	190	
Barsingsar (NLC)		250	168	168	4.35	181	
Giral LTPS (IPP)		250	90	90	1.22	51	
Rajwest LTPS (IPP)		540	401	360	10.70	446	
VSLP LTPS (IPP)		135	0	0	0.00	0	
Thermal (Total)		5158	3835	3854	92.28	3845	
Total Hydro		550	176	91	4.53	189	
Wind power		1294	139	449	6.40	267	
Biomass		71	40	40	0.82	34	
Solar		50	0	0	0.00	0	
Renewable/Others (Total)		1365	179	489	11.75	490	
Total Rajasthan		7073	4190	4434	108.56	4523	
UP		Anpara TPS	1630	1456	1441	30.80	1283
		Obra TPS	1442	652	655	14.10	588
		Paricha TPS	640	220	222	4.80	200
	Panki TPS	210	170	166	3.70	154	
	Harduaganj TPS	415	292	281	6.30	263	
	Tanda TPS (NTPC)	440	405	403	10.87	453	
	Roza TPS (IPP)	900	450	396	10.50	438	
	Anpara-C (IPP)	1200	495	437	11.50	479	
	Bajaj Energy Pvt.Ltd(IPP) TPS	180	188	149	4.21	175	
	Thermal (Total)	7057	4328	4150	96.78	4032	
	Vishnuparyag HPS (IPP)	400	79	74	1.85	77	
	Other Hydro	527	271	39	3.91	163	
	Cogeneration	951	650	650	15.60	650	
	Total UP	8935	5328	4913	118.14	4845	
	Uttarakhand	Total Hydro	1303	496	223	8.23	343
Total Uttarakhand		1303	496	223	8.23	343	
Delhi	Rajghat TPS	135	118	99	2.83	118	
	Delhi Gas Turbine	282	79	116	2.74	114	
	Pragati Gas Turbine	330	102	268	6.90	287	
	Rithala GPS	108	19	33	0.40	17	
	Bawana GPS	440	135	34	3.38	141	
	Badarpur TPS (NTPC)	705	605	565	13.29	554	
	Thermal (Total)	2000	1058	1121	29.53	1230	
	Total Delhi	2000	1058	1121	29.53	1230	
HP	Baspa HPS (IPP)	330	0	0	1.01	42	
	Malana HPS (IPP)	101	0	0	0.12	5	
	Other Hydro	571	187	52	2.90	121	
	Total HP	1002	187	52	4	168	
J & K	Baglihar HPS (IPP)	450	140	138	3.32	138	
	Other Hydro	323	27	125	1.38	57	
	Gas/Diesel/Others	183	0	0	0.00	0	
	Total J & K	956	167	263	4.70	196	
Total State Control Area Generation		29376	16782	15690	398.90	16544	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			1271	1541	54.02	2251	
Total Regional Availability(Gross)		50601	33201	25768	713.85	29667	

IV. Total Hydro Generation:

Regional Entities Hydro	10083	6413	810	62.02	2584
State Control Area Hydro	5365	1697	847	34.14	1423
Total Regional Hydro	15447	8110	1657	96.17	4007

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	-50	-100	0	200	0.00	1.92	-1.92
Gwalior-Agra (D/C)	381	679	1076	0	17.44	0.00	17.44
Zerda-Kankroli	-53	-67	90	106	0.00	0.43	-0.43
Zerda-Bhinmal	14	9	233	53	1.74	0.00	1.74
Malanpur-Auraiya	-81	-59	0	109	0.00	1.39	-1.39
Badod-Kota/Morak	-18	-59	62	63	0.00	0.29	-0.29
Sub Total WR	193	403			19.17	4.02	15.16
Pusauli Bypass	-105	62	251	105	2.54	0.28	2.26
MZP- GKP (D/C)	404	361	800	0	13.49	0.00	13.49
Patna-Balia(D/C)	226	386	524	0	8.77	0.00	8.77
B'Sharif-Balia (D/C)	177	275	355	0	6.91	0.00	6.91
Barh - balia(D/C)	254	0	404	0	5.19	0.00	5.19
Pusauli-Sahupuri	152	86	171	0	3.08	0.00	3.08
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-30	-32	0	48	0.00	0.82	-0.82
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sub Total ER	1078	1138			39.96	1.10	38.87
Total IR Exch	1271	1541			59.13	5.11	54.02

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
25.19	0.21	25.40	11.43	15.21	1.53	14.08	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
41.13	20.22	61.35	38.87	15.16	54.02	-2.27	-5.06	-7.33

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	1.10	18.10	97.20	80.20	18.30	1.70

<----- 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					
50.40	18.01	49.39	21.03	49.86	0.46	0.16	50.26	49.64

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	411	03:10	399	10:03	0.0	0.0	0.0	0.0
Gorakhpur	400	431	21:55	411	09:45	0.0	0.0	67.3	0.3
Bareilly	400	423	03:01	375	17:14	0.0	0.0	4.4	0.0
Kanpur	400	418	03:00	397	10:17	0.0	0.0	0.0	0.0
Dadri	400	419	03:25	397	10:19	0.0	0.0	0.0	0.0
Ballabgarh	400	424	23:52	398	10:20	0.0	0.0	11.8	0.0
Bawana	400	424	23:51	398	10:22	0.0	0.0	13.8	0.0
Bassi	400	424	18:01	390	10:14	0.0	0.0	9.6	0.0
Hissar	400	412	21:44	407	22:07	0.0	0.0	0.0	0.0
Moga	400	425	23:17	405	10:20	0.0	0.0	20.8	0.0
Abdullapur	400	423	17:04	400	10:45	0.0	0.0	1.8	0.0
Nalagarh	400	426	20:47	420	21:01	0.0	0.0	82.7	0.0
Kishenpur	400	422	02:01	398	10:31	0.0	0.0	0.3	0.0
Wagoora	400	405	15:02	374	10:42	15.1	63.0	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	498.17	1018.16	501.02	1140.31	181.43	482.66
Pong	426.72	384.05	412.19	566.84	415.45	693.24	59.69	189.01
Tehri	829.79	740.04	801.80	646.42	818.65	982.26	53.22	208.00
Koteshwar	612.50	598.50	607.90	3.54	NA	NA	208.00	186.00
Chamera-I	760.00	748.75	754.55	NA	753.15	1.20	59.83	28.65
Rihand	268.22	252.98	263.14	490.00	256.76	147.70	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	506.17	NA	509.57	NA	14.72	235.74

* NA: Not Available

IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

XI. Weather Conditions For 22.01.2012 :

Cold & Cloudy

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 : 22.01.2012

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER