

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 25.01.2012
Date of Reporting : 26.01.2012

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
32738	2538	35275	49.88	25649	650	26299	50.11	720.2	225.53

* 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	50.61	10.40		61.01	32.06	33.19	1.13	94.20	180.00
Haryana	68.79	0.60		69.38	24.01	31.32	7.31	100.70	5.58
Rajasthan	90.13	4.39	13.74	108.26	51.38	55.50	4.11	163.75	4.22
Delhi	26.26			26.26	44.75	37.35	-7.40	63.61	0.09
UP	84.11	7.07	15.60	106.78	88.31	97.88	9.57	204.67	33.75
Uttarakhand		9.64		9.64	20.61	21.34	0.73	30.98	0.00
HP		4.23		4.23	19.96	18.72	-1.24	22.95	0.00
J & K		5.09	0.00	5.09	25.20	30.56	5.36	35.64	1.90
Chandigarh				0.00	3.60	3.72	0.12	3.72	0.00
Total	319.90	41.39	29.34	390.64	309.88	329.57	19.69	720.21	225.53

* 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	4366	600	-79	-333	3369	0	256	-481	-7.41
Haryana	4623	300	412	-201	3305	0	-64	-201	-4.48
Rajasthan	7038	148	187	160	6462	0	13	285	8.28
Delhi	3214	0	-259	-25	1521	0	67	-340	-3.13
UP	9272	1390	265	265	7731	650	-6	265	6.36
Uttarakhand	1568	0	45	450	1086	0	3	450	10.80
HP	1092	0	-422	-38	718	0	11	405	6.30
J&K	1364	100	-304	300	1361	0	232	296	6.59
Chandigarh	200	0	-24	0	96	0	-2	-30	-0.24
Total	32738	2538	-180	578	25649	650	510	648	23.07

* 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	1760	1892	1670	42.02	1751	41.72	0.30
	Rihand I STPS	1000	830	909	657	19.49	812	19.17	0.32
	Rihand II STPS	1000	977	1043	740	22.99	958	22.57	0.42
	Dadri I STPS	840	793	859	627	17.68	737	17.41	0.27
	Dadri II STPS	980	977	1036	981	23.40	975	23.44	-0.04
	Unchahar I TPS	440	383	435	327	9.12	380	8.93	0.19
	Unchahar II TPS	440	383	430	314	9.07	378	8.70	0.37
	Unchahar III TPS	210	192	219	154	4.53	189	4.39	0.14
	ISTPP (Jhajjar)	1000	475	487	359	10.05	419	10.22	-0.18
	Dadri GPS	830	846	702	543	16.20	675	16.42	-0.22
	Anta GPS	419	426	299	285	7.82	326	7.65	0.17
	Auraiya GPS	663	662	484	379	10.94	456	10.87	0.07
	Sub Total (A)	9822	8703	8795	7036	193.30	8054	191.48	1.82
	B. NPC	NAPS	440	125	146	151	3.04	127	3.00
RAPS- B		440	406	448	452	9.64	402	9.74	-0.10
RAPS- C		440	420	467	473	10.22	426	10.08	0.14
Sub Total (B)		1320	951	1061	1076	22.90	954	22.82	0.07
C. NHPC	Chamera I HPS	540	356	360	0	3.09	129	3.05	0.04
	Chamera II HPS	300	297	249	0	1.13	47	1.19	-0.06
	Bairasuil HPS	180	179	179	0	0.60	25	0.53	0.06
	Salal-HPS	690	122	28	60	0.60	25	3.00	-2.40
	Tanakpur-HPS	94	29	248	23	2.91	121	0.60	2.31
	Uri-HPS	480	126	212	45	2.89	120	2.94	-0.05
	Dhauliganga-HPS	280	210	139	0	0.94	39	0.92	0.01
	Dulhasti-HPS	390	388	352	0	2.02	84	1.78	0.24
	Sewa-II HPS	120	119	72	0	0.37	16	0.34	0.03
	Sub Total (C)	3074	1826	1839	128	14.54	606	14.36	0.18
D. NJPC	Nathpa Jhakri	1500	1133	1235	0	6.66	277	6.37	0.28
	Sub Total (D)	1500	1133	1235	0	6.66	277	6.37	0.28
E. THDC	Tehri HPS	1000	970	969	0	8.72	363	8.75	-0.03
	Koteshwar HPS	200	119	204	0	3.09	129	2.95	0.14
	Sub Total (E)	1200	1089	1173	0	11.82	492	11.70	0.12
F. BBMB	Bhakra HPS	1480	725	944	571	17.75	740	17.39	0.36
	Dehar HPS	990	124	495	0	2.98	124	2.99	0.00
	Pong HPS	396	128	246	0	3.27	136	3.08	0.19
	Sub Total (F)	2866	977	1685	571	24.00	1000	23.46	0.54
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	0	0	0.30	12	0.33	-0.03
	KWHEP HPS(IPP)	1000	0	484	0	3.40	142	3.60	-0.20
	Malana Stg-II HPS	100	0	0	0	0.00	0	0.00	0.00
	Shree Cement TPS	150	0	144	145	3.47	144	3.44	0.03
	Sub Total (G)	1442	0	628	145	7.17	299	7.37	-0.20
H. Total Regional Entities (A-G)	21225	14679	16416	8956	280.37	11682	277.56	2.81	

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	1210	1050	24.55	1023
	Guru Nanak Dev TPS(Bhatinda)	440	216	218	4.75	198
	Guru Hargobind Singh TPS(L.mbt)	920	945	966	21.30	888
	Thermal (Total)	2620	2371	2234	50.61	2109
	Total Hydro	1148	276	196	10.40	433
	Total Punjab	3768	2647	2430	61.01	2542
Haryana	Panipat TPS	1360	1032	1049	25.16	1048
	DCRTPP (Yamuna nagar)	600	271	273	6.53	272
	Faridabad GPS (NTPC)	432	427	325	9.80	408
	RGTPP (kheldar) (IPP)	1200	1069	1061	27.30	1138
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	660	0	0	0.00	0
	Thermal (Total)	4277	2799	2708	68.79	2866
	Total Hydro	62	24	23	0.60	25
	Total Haryana	4339	2823	2731	69.38	2891
	Rajasthan	kota TPS	1240	1173	1178	27.51
suratgarh TPS		1500	1146	1135	27.13	1131
Chabra TPS		500	371	366	8.85	369
Dholpur GPS		330	233	226	5.44	227
Ramgarh GPS		113	43	45	1.03	43
RAPS A (NPC)		300	194	195	4.79	200
Barsingsar (NLC)		250	168	156	4.42	184
Giral LTPS (IPP)		250	56	56	1.27	53
Rajwest LTPS (IPP)		540	370	450	9.70	404
VSLP LTPS (IPP)		135	0	0	0.00	0
Thermal (Total)		5158	3754	3807	90.13	3755
Total Hydro		550	156	173	4.39	183
Wind power		1294	253	493	8.42	351
Biomass		71	39	39	0.94	39
Solar		50	0	0	0.00	0
Renewable/Others (Total)		1365	292	532	13.74	573
Total Rajasthan		7073	4202	4512	108.26	4511
UP		Anpara TPS	1630	1349	1292	31.80
	Obra TPS	1442	543	554	12.90	538
	Paricha TPS	640	192	211	4.90	204
	Panki TPS	210	176	171	3.90	163
	Harduaganj TPS	415	36	222	2.30	96
	Tanda TPS (NTPC)	440	395	326	9.61	401
	Roza TPS (IPP)	900	446	432	10.62	442
	Anpara-C (IPP)	1200	74	223	4.88	203
	Bajaj Energy Pvt.Ltd(IPP) TPS	180	275	132	3.21	134
	Thermal (Total)	7057	3486	3563	84.11	3505
	Vishnuparyag HPS (IPP)	400	74	74	1.82	76
	Other Hydro	527	275	0	5.25	219
	Cogeneration	951	650	650	15.60	650
	Total UP	8935	4485	4287	106.78	4373
	Uttarakhand	Total Hydro	1303	511	290	9.64
Total Uttarakhand		1303	511	290	9.64	402
Delhi	Rajghat TPS	135	54	55	1.28	53
	Delhi Gas Turbine	282	116	110	3.82	159
	Pragati Gas Turbine	330	309	264	7.23	301
	Rithala GPS	108	19	33	0.34	14
	Bawana GPS	440	0	0	0.00	0
	Badarpur TPS (NTPC)	705	620	550	13.59	566
	Thermal (Total)	2000	1118	1012	26.26	1094
	Total Delhi	2000	1118	1012	26.26	1094
HP	Baspa HPS (IPP)	330	0	0	1.08	45
	Malana HPS (IPP)	101	0	0	0.20	8
	Other Hydro	571	170	69	2.95	123
	Total HP	1002	170	69	4	176
J & K	Baglihar HPS (IPP)	450	148	148	3.71	155
	Other Hydro	323	27	125	1.38	57
	Gas/Diesel/Others	183	0	0	0.00	0
	Total J & K	956	175	273	5.09	212
Total State Control Area Generation		29376	16131	15604	390.64	16201
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			1687	1772	51.76	2157
Total Regional Availability(Gross)		50601	34234	26332	722.77	30040

IV. Total Hydro Generation:

Regional Entities Hydro	10083	6560	844	64.18	2674
State Control Area Hydro	5365	1587	1024	39.57	1649
Total Regional Hydro	15447	8147	1868	103.75	4323

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	-100	300	100	2.05	0.61	1.44
Gwalior-Agra (D/C)	397	861	1090	0	17.59	0.00	17.59
Zerda-Kankroli	-72	-80	61	147	0.00	1.40	-1.40
Zerda-Bhinmal	-2	-9	190	134	0.64	0.00	0.64
Malanpur-Auraiya	-158	-52	0	158	0.00	2.00	-2.00
Badod-Kota/Morak	4	-74	36	89	0.00	1.10	-1.10
Sub Total WR	169	546			20.28	5.11	15.17
Pusauli Bypass	76	-60	160	66	0.33	1.43	-1.09
MZP- GKP (D/C)	558	578	812	0	14.20	0.00	14.20
Patna-Balia(D/C)	389	362	552	0	8.82	0.00	8.82
B'Sharif-Balia (D/C)	433	293	582	0	8.90	0.00	8.90
Barh - balia(D/C)	0	0	584	0	3.33	0.00	3.33
Pusauli-Sahupuri	92	85	169	0	3.11	0.00	3.11
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-30	-32	0	48	0.00	0.67	-0.67
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sub Total ER	1518	1226			38.69	2.09	36.59
Total IR Exch	1687	1772			58.97	7.20	51.76

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
26.15	0.25	26.40	11.05	13.99	-0.12	8.42	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
40.11	11.65	51.76	36.59	15.17	51.76	-3.52	3.52	0.00

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	2.80	28.60	96.70	70.90	14.10	0.50

<----- 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					
50.28	8.02	49.40	9.13	49.81	0.65	0.17	50.21	49.63

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	412	02:32	395	07:06	0.0	0.0	0.0	0.0
Gorakhpur	400	432	00:00	407	11:10	0.0	0.0	55.8	2.3
Bareilly	400	425	02:13	397	09:51	0.0	0.0	12.3	0.0
Kanpur	400	420	02:07	399	05:52	0.0	0.0	0.0	0.0
Dadri	400	419	02:07	395	10:01	0.0	0.0	0.0	0.0
Ballabgarh	400	424	02:02	398	10:01	0.0	0.0	12.7	0.0
Bawana	400	422	02:06	398	10:01	0.0	0.0	6.2	0.0
Bassi	400	421	04:02	396	10:42	0.0	0.0	0.4	0.0
Hissar	400	413	02:55	393	10:38	0.0	0.0	0.0	0.0
Moga	400	423	02:55	404	14:16	0.0	0.0	16.9	0.0
Abdullapur	400	423	02:09	400	09:54	0.0	0.0	1.9	0.0
Nalagarh	400	427	02:05	407	11:16	0.0	0.0	27.2	0.0
Kishenpur	400	419	04:01	396	20:33	0.0	0.0	0.0	0.0
Wagoora	400	400	04:01	372	20:33	25.3	71.1	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	497.54	994.96	500.41	1114.30	182.36	515.51
Pong	426.72	384.05	411.97	566.84	415.27	680.86	74.39	203.71
Tehri	829.79	740.04	800.45	608.45	818.65	982.26	51.93	213.00
Koteshwar	612.50	598.50	608.40	3.76	NA	NA	213.00	205.00
Chamera-I	760.00	748.75	754.00	NA	NA	NA	66.90	82.41
Rihand	268.22	252.98	263.04	482.00	256.70	145.10	NA	NA
RPS	352.80	343.81	NA	NA	NA	NA	NA	NA
Jawahar Sagar	298.70	295.78	NA	NA	NA	NA	NA	NA
RSD	527.91	487.91	505.10	NA	508.37	NA	89.99	206.49

* NA: Not Available

IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

XI. Weather Conditions For 25.01.2012 :

Normal wether.

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 : 25.01.2012

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER