

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 08.01.2012
Date of Reporting : 09.01.2012

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
29515	2573	32088	49.92	23435	665	24100	50.24	665.3	31.00

* 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	Actual Drawal	UI	Consumption	Shortages *
	Thermal	Hydro	Renewable/others \$	Total	(Net MU)	(Net MU)	(Net MU)	(Net MU)	(MU)
Punjab	50.99	8.65		59.64	31.29	30.88	-0.42	90.51	1.80
Haryana	53.02	0.62		53.64	24.81	39.87	15.05	93.51	2.28
Rajasthan	79.66	4.69	16.20	100.54	50.67	58.00	7.32	158.54	0.26
Delhi	25.57			25.57	39.03	34.07	-4.96	59.64	0.11
UP	87.44	5.35	15.60	108.39	84.52	84.20	-0.32	192.59	24.35
Uttarakhand		9.34		9.34	19.37	19.98	0.61	29.32	0.00
HP		4.07		4.07	20.78	17.41	-3.37	21.49	0.27
J & K		4.62	0.00	4.62	23.34	11.71	-11.64	16.33	1.95
Chandigarh				0.00	3.37	3.39	0.02	3.39	0.00
Total	296.67	37.34	31.80	365.81	297.19	299.50	2.32	665.31	31.00

* 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	STOA/PX transaction
Punjab	4582	600	-93	-333	3134	0	396	-808	-9.07
Haryana	4557	328	1068	-201	3544	0	665	-201	-4.49
Rajasthan	6497	0	459	281	6170	0	-19	346	10.41
Delhi	2972	0	-474	-25	1403	0	-46	-340	-3.13
UP	7384	1545	-1146	265	6864	665	-781	265	6.36
Uttarakhand	1456	0	-26	410	1047	0	4	410	9.84
HP	1105	0	-418	171	729	0	-24	405	8.04
J&K	782	100	-847	301	463	0	-656	296	6.59
Chandigarh	180	0	-12	0	81	0	-17	-30	-0.24
Total	29515	2573	-1489	868	23435	665	-478	342	24.32

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

III. Regional Entities :

A. NTPC	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
		Singrauli STPS	2000	1940	2066	1926	46.03	1918	45.97
	Rihand I STPS	1000	900	981	858	21.27	886	21.10	0.17
	Rihand II STPS	1000	977	1036	902	22.92	955	22.87	0.05
	Dadri I STPS	840	793	692	621	16.08	670	17.02	-0.94
	Dadri II STPS	980	967	948	870	20.46	853	22.87	-2.41
	Unchahar I TPS	440	375	434	304	8.41	351	8.51	-0.10
	Unchahar II TPS	440	375	442	207	8.39	350	8.42	-0.03
	Unchahar III TPS	210	187	220	148	4.23	176	4.25	-0.01
	ISTPP (Jhajjar)	1000	475	356	346	8.72	364	8.78	-0.06
	Dadri GPS	830	841	498	455	12.59	525	12.95	-0.36
	Anta GPS	419	384	286	232	6.28	262	5.92	0.36
	Auraiya GPS	663	660	350	369	9.57	399	9.72	-0.15
	Sub Total (A)	9822	8874	8309	7238	184.96	7707	188.38	-3.42
B. NPC	NAPS	440	232	275	280	5.77	240	5.57	0.20
	RAPS- B	440	419	476	473	10.27	428	10.06	0.22
	RAPS- C	440	420	473	475	10.25	427	10.08	0.17
	Sub Total (B)	1320	1071	1224	1228	26.30	1096	25.70	0.59
C. NHPC	Chamera I HPS	540	0	0	0	0.00	0	0.00	0.00
	Chamera II HPS	300	297	49	0	1.03	43	1.01	0.02
	Bairasuil HPS	180	179	100	0	0.49	20	0.66	-0.17
	Salal-HPS	690	132	90	196	2.24	93	3.04	-0.80
	Tanakpur-HPS	94	29	32	20	0.67	28	0.71	-0.04
	Uri-HPS	480	105	0	44	1.37	57	2.49	-1.13
	Dhauliganga-HPS	280	277	0	0	0.85	35	1.00	-0.15
	Dulhasti-HPS	390	388	0	0	0.00	0	0.00	0.00
	Sewa-II HPS	120	79	20	0	0.50	21	0.56	-0.06
	Sub Total (C)	3074	1485	291	260	7.15	298	9.48	-2.33
D. NJPC	Nathpa Jhakri	1500	1013	1350	0	7.05	294	7.19	-0.14
	Sub Total (D)	1500	1013	1350	0	7.05	294	7.19	-0.14
E. THDC	Tehri HPS	1000	1020	1019	0	7.73	322	8.00	-0.27
	Koteshwar HPS	200	119	207	0	2.60	109	2.60	0.00
	Sub Total (E)	1200	1139	1226	0	10.33	431	10.60	-0.27
F. BBMB	Bhakra HPS	1480	679	944	522	16.71	696	16.29	0.42
	Dehar HPS	990	123	495	0	2.99	125	2.96	0.03
	Pong HPS	396	149	306	66	3.64	152	3.58	0.06
	Sub Total (F)	2866	952	1745	588	23.34	973	22.84	0.50
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	0	0	0.26	11	0.23	0.03
	KWHEP HPS(IPP)	1000	0	487	0	3.97	166	3.96	0.01
	Malana Stg-II HPS	100	0	0	0	0.00	0	0.00	0.00
	Shree Cement TPS	150	0	196	185	4.70	196	3.95	0.75
	Sub Total (G)	1442	0	683	185	8.93	372	8.14	0.79
H. Total Regional Entities (A-G)		21225	14533	14828	9499	268.06	11169	272.34	-4.28

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	1260	1060	26.49	1104	
	Guru Nanak Dev TPS(Bhatinda)	440	215	215	4.66	194	
	Guru Hargobind Singh TPS(L.mbt)	920	942	802	19.84	827	
	Thermal (Total)	2620	2417	2077	50.99	2125	
	Total Hydro	1148	367	370	8.65	360	
	Total Punjab	3768	2784	2447	59.64	2485	
Haryana	Panipat TPS	1360	836	956	22.92	955	
	DCRTPP (Yamuna nagar)	600	271	271	6.59	274	
	Faridabad GPS (NTPC)	432	438	323	9.99	416	
	RGTPP (khedar) (IPP)	1200	512	517	13.52	563	
	Magnum Diesel (IPP)	25	0	0	0.00	0	
	Thermal (Total)	3617	2057	2067	53.02	2209	
	Total Hydro	62	23	24	0.62	26	
		Total Haryana	3679	2080	2091	53.64	2235
Rajasthan	kota TPS	1240	1133	888	23.84	993	
	suratgarh TPS	1500	1136	1049	26.65	1110	
	Chabra TPS	500	207	395	6.95	290	
	Dholpur GPS	330	225	235	5.47	228	
	Ramgarh GPS	113	66	67	1.66	69	
	RAPS A (NPC)	300	180	180	4.50	188	
	Barsingar (NLC)	250	0	0	0.00	0	
	Giral LTPS (IPP)	250	108	145	2.80	117	
	Rajwest LTPS (IPP)	540	330	430	7.80	325	
	VSLP LTPS (IPP)	135	0	0	0.00	0	
	Thermal (Total)	5158	3385	3389	79.66	3319	
	Total Hydro	550	210	165	4.69	195	
	Wind power	1294	200	694	10.37	432	
	Biomass	71	47	47	1.14	47	
	Solar	50	0	0	0.00	0	
	Renewable/Others (Total)	1365	247	741	16.20	675	
		Total Rajasthan	7073	3842	4295	100.54	4189
	UP	Anpara TPS	1630	1561	1516	33.20	1383
Obra TPS		1442	667	656	14.20	592	
Paricha TPS		640	215	211	4.70	196	
Panki TPS		210	160	160	3.50	146	
Harduaganj TPS		415	143	42	2.70	113	
Tanda TPS (NTPC)		440	394	341	9.51	396	
Roza TPS (IPP)		900	482	445	11.10	463	
Anpara-C (IPP)		1200	255	213	5.92	246	
Bajaj Energy Pvt.Ltd(IPP) TPS		180	111	87	2.62	109	
Thermal (Total)		7057	3988	3671	87.44	3643	
Vishnuparyag HPS (IPP)		400	89	79	2.04	85	
Other Hydro		527	82	33	3.31	138	
Cogeneration		951	650	650	15.60	650	
		Total UP	8935	4809	4433	108.39	4431
Uttarakhand		Total Hydro	1303	511	324	9.34	389
	Total Uttarakhand	1303	511	324	9.34	389	
Delhi	Rajghat TPS	135	52	50	1.33	55	
	Delhi Gas Turbine	282	156	150	3.82	159	
	Praagati Gas Turbine	330	313	267	7.28	303	
	Rithala GPS	108	19	33	0.49	20	
	Bawana GPS	440	0	5	0.47	20	
	Badarpur TPS (NTPC)	705	545	540	12.18	508	
	Thermal (Total)	2000	1085	1040	25.57	1065	
	Total Delhi	2000	1085	1040	25.57	1065	
HP	Baspa HPS (IPP)	330	0	0	1.02	42	
	Malana HPS (IPP)	101	17	0	0.21	9	
	Other Hydro	571	166	52	2.84	118	
	Total HP	1002	183	52	4	170	
J & K	Baglihar HPS (IPP)	450	293	142	3.39	141	
	Other Hydro	323	25	120	1.24	51	
	Gas/Diesel/Others	183	0	0	0.00	0	
	Total J & K	956	318	262	4.62	193	
Total State Control Area Generation		28716	15612	14944	365.81	15157	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			920	-32	36.04	1502	
Total Regional Availability(Gross)		49941	31360	24411	669.90	27828	

IV. Total Hydro Generation:

Regional Entities Hydro	10083	5295	1033	56.80	2367
State Control Area Hydro	5365	1694	1230	35.30	1471
Total Regional Hydro	15447	6989	2263	92.10	3838

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	-250	-500	0	500	0.00	8.24	-8.24
Gwalior-Agra (D/C)	368	436	1070	0	15.25	0.00	15.25
Zerda-Kankroli	-132	-283	66	367	0.00	3.04	-3.04
Zerda-Bhinmal	-77	-205	195	266	0.00	1.08	-1.08
Malanpur-Auraiya	-116	-112	0	145	0.00	1.89	-1.89
Badod-Kota/Morak	-8	-97	81	103	0.00	0.59	-0.59
Sub Total WR	-215	-761			15.25	14.83	0.42
Pusauli Bypass	300	300	300	0	7.28	0.00	7.28
MZP- GKP (D/C)	366	55	457	0	8.44	0.00	8.44
Patna-Balia(D/C)	175	137	315	0	5.44	0.00	5.44
B'Sharif-Balia (D/C)	130	36	427	0	4.59	0.00	4.59
Barh - balia(D/C)	65	144	309	0	7.74	0.00	7.74
Pusauli-Sahupuri	129	89	166	0	3.06	0.00	3.06
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	1135	729			36.55	0.93	35.62
Total IR Exch	920	-32			51.80	15.76	36.04

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
21.46	0.43	21.88	11.62	15.02	0.45	5.01	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
36.73	10.82	47.55	35.62	0.42	36.04	-1.11	-10.40	-11.51

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	1.60	12.30	92.50	81.80	39.40	5.90

←----- Frequency (Hz) ----->				Average Frequency	Frequency Variation Index	Std. Dev.	Frequency in 15 Min Block	
Maximum		Minimum					MAX (Hz)	MIN (Hz)
Freq	Time	Freq	Time	Hz				
50.51	18.01	49.34	9.16	49.93	0.40	0.19	50.32	49.67

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	03:06	397	06:41	0.0	0.0	0.0	0.0
Gorakhpur	400	432	02:11	410	10:49	0.0	0.0	69.9	2.0
Bareilly	400	428	02:05	400	09:16	0.0	0.0	22.7	0.0
Kanpur	400	423	02:10	400	06:11	0.0	0.0	0.9	0.0
Dadri	400	422	04:00	403	09:14	0.0	0.0	4.8	0.0
Ballabgarh	400	425	02:04	403	09:14	0.0	0.0	17.9	0.0
Bawana	400	426	02:05	404	09:13	0.0	0.0	19.8	0.0
Bassi	400	423	04:02	389	06:47	0.0	0.1	2.7	0.0
Hissar	400	415	20:54	397	09:13	0.0	0.0	0.0	0.0
Moga	400	430	02:02	407	08:27	0.0	0.0	29.8	0.0
Abdullapur	400	427	04:07	299	22:01	0.1	0.1	34.2	0.0
Nalagarh	400	427	15:08	409	09:14	0.0	0.0	50.8	0.0
Kishenpur	400	426	02:17	382	20:21	0.0	1.9	24.9	0.0
Wagoora	400	0	00:00	9999	00:00	0.0	0.0	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	500.81	1127.29	503.39	1245.57	222.03	470.00
Pong	426.72	384.05	412.93	600.05	416.45	730.63	215.60	256.44
Tehri	829.79	740.04	807.45	743.75	818.65	982.26	53.36	170.00
Koteshwar	612.50	598.50	608.50	3.76	NA	NA	170.00	162.00
Chamera-I	760.00	748.75	NA	NA	NA	NA	NA	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	509.74	NA	512.00	NA	43.64	114.20

* NA: Not Available

IX. System Constraints:

1. Uri HEP is running with grid.

X. Grid Disturbance / Any Other Significant Event:

XI. Weather Conditions For 08.01.2012 :

1. Normal & Cold weather

XII. Synchronisation of new generating units :

XIII. Synchronisation of new 220 / 400 / 765 KV lines and energising of bus //substation :

1: 220kV Hissar (PG) - Isharwal (HVPN) ckt-1 first time test charged upto Hissar PG gantry at 15.20hrs of dt 08.01.2012 from Isharwal end .

XIV. Tripping of lines in pooling stations :

XV. Complete generation loss in a generating station :

Generation at Dulhasti remained zero due to evacuation problem.

Report for : 08.01.2012

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER