

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 16.01.2012
Date of Reporting : 17.01.2012

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
31234	2964	34198	50.01	22748	0	22748	50.55	644.0	35.98

* 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	41.63	5.51		47.14	32.19	33.23	1.04	80.37	1.80
Haryana	57.46	0.75		58.21	23.01	27.23	4.23	85.44	2.70
Rajasthan	86.63	4.76	8.82	100.21	53.61	55.91	2.30	156.11	0.32
Delhi	26.44			26.44	39.54	31.76	-7.79	58.19	0.07
UP	79.15	5.03	15.60	99.79	82.95	79.05	-3.90	178.84	29.07
Uttarakhand		9.00		9.00	18.49	20.20	1.71	29.20	0.00
HP		5.01		5.01	20.33	15.99	-4.34	20.99	0.11
J & K		4.35	0.00	4.35	26.22	26.69	0.46	31.04	1.90
Chandigarh				0.00	3.65	3.85	0.20	3.85	0.00
Total	291.31	34.41	24.42	350.13	299.97	293.90	-6.07	644.03	35.98

* 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	4400	600	116	-333	2645	0	-11	-581	-8.01
Haryana	4376	832	524	-203	2561	0	-188	-203	-4.54
Rajasthan	6914	24	76	160	5659	0	68	285	8.28
Delhi	3121	4	-330	-25	1320	0	-217	-340	-3.13
UP	8096	1405	-427	265	7799	0	663	265	6.36
Uttarakhand	1553	0	71	450	845	0	-148	450	10.80
HP	1094	0	-344	-38	628	0	-170	405	6.30
J&K	1474	100	-129	307	1195	0	90	302	6.75
Chandigarh	206	0	-20	0	95	0	-6	-30	-0.24
Total	31234	2964	-462	582	22748	0	82	552	22.57

* 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		UI		
								Net MU	Net MU	Net MU	Net MU	
A. NTPC	Singrauli STPS	2000	1750	1890	1363	39.80	1658	39.58		0.22		
	Rihand I STPS	1000	780	847	580	17.43	726	17.29		0.14		
	Rihand II STPS	1000	977	1029	675	21.68	903	21.69		-0.01		
	Dadri I STPS	840	793	649	603	14.81	617	15.17		-0.36		
	Dadri II STPS	980	966	1012	704	20.01	834	20.76		-0.75		
	Unchahar I TPS	440	404	436	310	9.06	377	9.06		0.00		
	Unchahar II TPS	440	401	432	308	8.97	374	8.91		0.06		
	Unchahar III TPS	210	201	208	151	4.47	186	4.45		0.01		
	ISTPP (Jhajjar)	1000	475	383	346	9.04	377	9.14		-0.10		
	Dadri GPS	830	846	618	398	12.37	516	12.69		-0.32		
	Anta GPS	419	433	272	221	6.18	258	5.82		0.37		
	Auraiya GPS	663	662	288	270	6.54	272	6.67		-0.13		
	Sub Total (A)		9822	8689	8064	5929	170.35	7098	171.23		-0.88	
	B. NPC	NAPS	440	240	271	287	5.78	241	5.76		0.02	
RAPS- B		440	426	468	470	10.14	423	10.22		-0.08		
RAPS- C		440	420	467	474	10.08	420	10.08		0.00		
Sub Total (B)		1320	1086	1206	1231	26.01	1084	26.06		-0.06		
C. NHPC	Chamera I HPS	540	356	360	0	1.18	49	1.07		0.11		
	Chamera II HPS	300	297	254	0	1.52	63	1.57		-0.05		
	Bairasuil HPS	180	179	120	0	0.82	34	1.07		-0.25		
	Salal-HPS	690	190	220	147	4.62	192	4.46		0.16		
	Tanakpur-HPS	94	29	31	23	0.67	28	0.69		-0.02		
	Uri-HPS	480	106	212	20	2.34	97	1.77		0.57		
	Dhauliganga-HPS	280	210	117	0	0.93	39	0.93		0.00		
	Dulhasti-HPS	390	388	392	0	2.86	119	2.73		0.12		
	Sewa-II HPS	120	119	66	21	1.28	53	1.58		-0.30		
	Sub Total (C)		3074	1872	1772	211	16.21	675	15.87		0.34	
	D. NJPC	Nathpa Jhakri	1500	1133	1315	0	5.77	240	6.00		-0.23	
Sub Total (D)			1500	1133	1315	0	5.77	240	6.00	-0.23		
E. THDC	Tehri HPS	1000	1000	1000	0	8.83	368	9.00		-0.17		
	Koteshwar HPS	200	119	203	0	2.67	111	2.70		-0.03		
Sub Total (E)		1200	1119	1203	0	11.50	479	11.70		-0.20		
F. BBMB	Bhakra HPS	1480	680	945	499	16.32	680	16.33		-0.01		
	Dehar HPS	990	155	495	0	3.88	162	3.72		0.16		
	Pong HPS	396	194	306	66	4.81	201	4.65		0.17		
	Sub Total (F)		2866	1029	1746	565	25.01	1042	24.70		0.32	
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	0	0	0.30	12	0.28		0.02		
	KWHEP HPS(IPP)	1000	0	500	0	3.78	158	3.43		0.35		
	Malana Stg-II HPS	100	0	0	0	0.00	0	0.00		0.00		
	Shree Cement TPS	150	0	60	0	0.03	1	2.47		-2.44		
	Sub Total (G)		1442	0	560	0	4.11	171	6.18		-2.08	
H. Total Regional Entities (A-G)		21225	14928	15866	7936	258.96	10790	261.74		-2.79		

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	840	695	17.63	735	
	Guru Nanak Dev TPS(Bhatinda)	440	215	215	4.55	189	
	Guru Hargobind Singh TPS(L.mbt)	920	964	739	19.45	810	
	Thermal (Total)	2620	2019	1649	41.63	1734	
	Total Hydro	1148	624	251	5.51	230	
	Total Punjab	3768	2643	1900	47.14	1964	
Haryana	Panipat TPS	1360	1027	1014	24.89	1037	
	DCRTPP (Yamuna nagar)	600	273	272	6.44	268	
	Faridabad GPS (NTPC)	432	427	279	8.85	369	
	RGTPP (khedar) (IPP)	1200	631	628	17.27	720	
	Magnum Diesel (IPP)	25	0	0	0.00	0	
	Jhajjar(CLP)	660	0	0	0.00	0	
	Thermal (Total)	4277	2358	2193	57.46	2394	
	Total Hydro	62	32	29	0.75	31	
	Total Haryana	4339	2390	2222	58.21	2425	
	Rajasthan	kota TPS	1240	1144	1048	24.99	1041
suratgarh TPS		1500	1153	967	26.12	1088	
Chabra TPS		500	408	383	9.53	397	
Dholpur GPS		330	217	231	5.41	226	
Ramgarh GPS		113	67	67	1.65	69	
RAPS A (NPC)		300	181	183	4.51	188	
Barsingsar (NLC)		250	138	145	4.01	167	
Giral LTPS (IPP)		250	90	80	1.83	76	
Rajwest LTPS (IPP)		540	378	342	8.58	358	
VSLP LTPS (IPP)		135	0	0	0.00	0	
Thermal (Total)		5158	3776	3446	86.63	3610	
Total Hydro		550	204	129	4.76	198	
Wind power		1294	190	30	3.32	139	
Biomass		71	37	37	0.74	31	
Solar		50	0	0	0.00	0	
Renewable/Others (Total)		1365	227	67	8.82	367	
Total Rajasthan		7073	4207	3642	100.21	4175	
UP		Anpara TPS	1630	1495	1561	31.20	1300
		Obra TPS	1442	549	522	11.70	488
	Paricha TPS	640	166	204	4.40	183	
	Panki TPS	210	165	135	3.30	138	
	Harduaganj TPS	415	53	152	2.10	88	
	Tanda TPS (NTPC)	440	393	310	9.33	389	
	Roza TPS (IPP)	900	468	374	10.09	420	
	Anpara-C (IPP)	1200	239	429	5.36	223	
	Bajaj Energy Pvt.Ltd(IPP) TPS	180	73	68	1.68	70	
	Thermal (Total)	7057	3601	3755	79.15	3298	
	Vishnuparyag HPS (IPP)	400	89	89	2.02	84	
	Other Hydro	527	175	31	3.02	126	
	Cogeneration	951	650	650	15.60	650	
	Total UP	8935	4515	4525	99.79	4074	
	Uttarakhand	Total Hydro	1303	474	258	9.00	375
Total Uttarakhand		1303	474	258	9.00	375	
Delhi	Rajghat TPS	135	0	54	0.77	32	
	Delhi Gas Turbine	282	77	76	1.90	79	
	Pragati Gas Turbine	330	312	267	7.19	300	
	Rithala GPS	108	19	33	0.41	17	
	Bawana GPS	440	133	34	3.40	142	
	Badarpur TPS (NTPC)	705	575	565	12.77	532	
	Thermal (Total)	2000	1116	1143	26.44	1101	
	Total Delhi	2000	1116	1143	26.44	1101	
HP	Baspa HPS (IPP)	330	0	0	1.04	43	
	Malana HPS (IPP)	101	44	0	0.26	11	
	Other Hydro	571	163	89	3.72	155	
	Total HP	1002	207	89	5	209	
J & K	Baglihar HPS (IPP)	450	128	124	2.98	124	
	Other Hydro	323	27	125	1.38	57	
	Gas/Diesel/Others	183	0	0	0.00	0	
	Total J & K	956	155	249	4.35	181	
Total State Control Area Generation		29376	15707	14028	350.13	14505	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			1511	1009	51.46	2144	
Total Regional Availability(Gross)		50601	33084	22973	660.55	27439	

IV. Total Hydro Generation:

Regional Entities Hydro	10083	6596	776	62.60	2608
State Control Area Hydro	5365	1871	1036	32.39	1350
Total Regional Hydro	15447	8467	1812	94.99	3958

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	-300	0	300	0.00	4.87	-4.87
Gwalior-Agra (D/C)	247	630	1169	0	17.64	0.00	17.64
Zerda-Kankroli	-16	-164	151	238	0.00	0.48	-0.48
Zerda-Bhinmal	-56	-58	244	131	1.77	0.00	1.77
Malanpur-Auraiya	-110	-80	0	110	0.00	1.01	-1.01
Badod-Kota/Morak	0	-21	74	60	0.20	0.00	0.20
Sub Total WR	65	7			19.61	6.36	13.25
Pusauli Bypass	66	-36	265	91	2.84	0.23	2.61
MZP- GKP (D/C)	520	324	752	0	11.96	0.00	11.96
Patna-Balia(D/C)	210	410	736	0	10.78	0.00	10.78
B'Sharif-Balia (D/C)	257	217	379	0	8.11	0.00	8.11
Barh - balia(D/C)	287	0	393	0	2.76	0.00	2.76
Pusauli-Sahupuri	136	119	178	0	2.82	0.00	2.82
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	1446	1002			39.27	1.05	38.21
Total IR Exch	1511	1009			58.87	7.41	51.46

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
26.84	0.30	27.14	11.16	13.54	0.51	12.60	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
41.59	17.38	58.97	38.21	13.25	51.46	-3.37	-4.14	-7.51

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	0.30	12.90	79.00	66.40	36.50	20.70

<----- 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					
50.68	3.03	49.46	20.00	49.98	0.69	0.26	50.68	49.65

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	413	03:32	396	14:12	0.0	0.0	0.0	0.0
Gorakhpur	400	433	21:48	409	07:23	0.0	0.0	41.6	1.8
Bareilly	400	432	03:59	399	17:08	0.0	0.0	35.6	1.6
Kanpur	400	426	04:01	394	16:45	0.0	0.0	14.0	0.0
Dadri	400	429	03:46	397	16:35	0.0	0.0	24.5	0.0
Ballabgarh	400	426	20:59	397	16:45	0.0	0.0	10.5	0.0
Bawana	400	434	03:42	400	16:44	0.0	0.0	37.7	8.0
Bassi	400	431	04:01	395	16:47	0.0	0.0	16.4	4.4
Hissar	400	425	03:44	394	16:44	0.0	0.0	14.1	0.0
Moga	400	432	02:57	406	16:45	0.0	0.0	44.1	0.8
Abdullapur	400	428	03:31	401	16:44	0.0	0.0	27.1	0.0
Nalagarh	400	432	02:09	409	16:45	0.0	0.0	39.8	0.6
Kishenpur	400	425	13:02	403	15:20	0.0	0.0	3.6	0.0
Wagoora	400	416	13:02	383	18:41	0.0	20.3	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 16.01.2012 :

1. Partial rains in some parts of NR.

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 : 16.01.2012

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER