

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 15.01.2012
Date of Reporting : 16.01.2012

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
30167	1914	32081	50.13	24332	650	24982	50.34	675.9	28.17

* 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	48.93	8.31		57.25	33.00	29.13	-3.88	86.37	1.80
Haryana	57.77	0.60		58.37	26.09	34.39	8.30	92.76	1.23
Rajasthan	87.37	4.55	14.33	106.26	53.57	50.54	-3.03	156.80	0.00
Delhi	29.07			29.07	39.32	29.81	-9.51	58.88	0.10
UP	88.45	4.43	15.60	108.48	82.97	84.14	1.17	192.62	23.13
Uttarakhand		8.00		8.00	19.47	21.81	2.34	29.81	0.00
HP		3.95		3.95	20.94	17.94	-3.00	21.90	0.00
J & K		5.60	0.00	5.60	25.55	27.59	2.04	33.19	1.90
Chandigarh				0.00	3.53	3.60	0.08	3.60	0.00
Total	311.59	35.46	29.93	376.98	304.45	298.95	-5.49	675.93	28.17

* 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	4124	600	66	-333	3037	0	12	-581	-8.01
Haryana	4396	210	670	-201	3401	0	82	-204	-4.53
Rajasthan	6315	0	-633	180	6059	0	24	305	8.16
Delhi	3256	4	-212	-25	1392	0	-372	-340	-3.13
UP	7919	1000	-838	265	7292	650	-241	265	6.36
Uttarakhand	1447	0	-3	430	1070	0	136	430	10.32
HP	979	0	-618	24	751	0	-27	405	7.25
J&K	1540	100	-143	30	1230	0	95	302	6.72
Chandigarh	191	0	-21	0	100	0	2	-30	-0.24
Total	30167	1914	-1732	640	24332	650	-289	552	22.90

* 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	1871	1746	42.21	1759	41.64		0.57		
	Rihand I STPS	1000	759	846	643	17.78	741	17.57		0.21		
	Rihand II STPS	1000	977	1040	874	23.06	961	22.94		0.12		
	Dadri I STPS	840	793	623	610	14.35	598	14.51		-0.16		
	Dadri II STPS	980	949	783	812	18.54	772	20.65		-2.11		
	Unchahar I TPS	440	404	440	365	9.81	409	9.17		0.63		
	Unchahar II TPS	440	402	438	306	9.59	399	8.75		0.83		
	Unchahar III TPS	210	201	219	154	4.82	201	4.42		0.40		
	ISTPP (Jhajjar)	1000	475	341	373	9.14	381	9.38		-0.24		
	Dadri GPS	830	853	609	443	12.69	529	12.95		-0.26		
	Anta GPS	419	433	250	209	6.11	255	5.95		0.16		
	Auraiya GPS	663	661	323	299	8.42	351	8.67		-0.25		
	Sub Total (A)		9822	8658	7783	6834	176.50	7354	176.60		-0.10	
	B. NPC	NAPS	440	240	279	285	5.77	240	5.76		0.01	
RAPS- B		440	425	470	468	10.20	425	10.20		0.00		
RAPS- C		440	420	469	473	10.14	423	10.08		0.06		
Sub Total (B)			1320	1085	1218	1226	26.12	1088	26.04		0.08	
C. NHPC	Chamera I HPS	540	89	360	0	1.16	48	1.07		0.09		
	Chamera II HPS	300	297	123	0	1.01	42	1.37		-0.36		
	Bairasuil HPS	180	179	30	0	0.56	23	0.73		-0.17		
	Salal-HPS	690	144	302	67	3.15	131	3.47		-0.32		
	Tanakpur-HPS	94	30	31	18	0.67	28	0.71		-0.04		
	Uri-HPS	480	114	212	20	2.34	97	2.59		-0.25		
	Dhauliganga-HPS	280	210	116	0	0.85	35	0.85		0.00		
	Dulhasti-HPS	390	388	266	0	2.33	97	2.43		-0.10		
	Sewa-II HPS	120	119	79	0	0.35	14	0.40		-0.05		
	Sub Total (C)		3074	1569	1519	105	12.41	517	13.61		-1.20	
D. NJPC	Nathpa Jhakri	1500	1133	1289	0	6.42	267	6.35		0.07		
	Sub Total (D)		1500	1133	1289	0	6.42	267	6.35	0.07		
E. THDC	Tehri HPS	1000	1000	1000	0	7.01	292	7.50		-0.49		
	Koteshwar HPS	200	119	200	0	2.95	123	2.90		0.05		
	Sub Total (E)		1200	1119	1200	0	9.96	415	10.40		-0.44	
F. BBMB	Bhakra HPS	1480	696	944	567	17.00	708	16.71		0.29		
	Dehar HPS	990	126	495	0	3.20	133	3.02		0.18		
	Pong HPS	396	159	306	60	4.21	175	3.82		0.39		
	Sub Total (F)		2866	981	1745	627	24.41	1017	23.55		0.86	
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	0	0	0.30	12	0.24		0.05		
	KWHEP HPS(IPP)	1000	0	559	0	2.44	102	3.48		-1.04		
	Malana Stg-II HPS	100	0	0	0	0.00	0	0.00		0.00		
	Shree Cement TPS	150	0	104	189	3.61	150	4.69		-1.08		
	Sub Total (G)		1442	0	663	189	6.34	264	8.41		-2.07	
H. Total Regional Entities (A-G)		21225	14545	15417	8981	262.15	10923	264.96		-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	840	1110	24.05	1002
	Guru Nanak Dev TPS(Bhatinda)	440	206	212	4.35	181
	Guru Hargobind Singh TPS(L.mbt)	920	965	856	20.53	855
	Thermal (Total)	2620	2011	2178	48.93	2039
	Total Hydro	1148	462	212	8.31	346
	Total Punjab	3768	2473	2390	57.25	2385
Haryana	Panipat TPS	1360	950	813	21.48	895
	DCRTPP (Yamuna nagar)	600	272	271	6.55	273
	Faridabad GPS (NTPC)	432	412	346	9.70	404
	RGTPP (kheldar) (IPP)	1200	539	887	20.04	835
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Thermal (Total)	3617	2173	2317	57.77	2407
	Total Hydro	62	23	25	0.60	25
	Total Haryana	3679	2196	2342	58.37	2432
	Rajasthan	kota TPS	1240	1061	1108	26.49
suratgarh TPS		1500	1048	1083	25.84	1077
Chabra TPS		500	391	374	9.91	413
Dholpur GPS		330	231	240	5.45	227
Ramgarh GPS		113	67	64	1.65	69
RAPS A (NPC)		300	178	183	4.50	188
Barsingar (NLC)		250	145	142	4.00	167
Giral LTPS (IPP)		250	80	69	1.49	62
Rajwest LTPS (IPP)		540	342	342	8.05	335
VSLP LTPS (IPP)		135	0	0	0.00	0
Thermal (Total)		5158	3543	3605	87.37	3641
Total Hydro		550	138	162	4.55	190
Wind power		1294	420	343	9.21	384
Biomass		71	32	32	0.57	24
Solar		50	0	0	0.00	0
Renewable/Others (Total)		1365	452	375	14.33	597
Total Rajasthan		7073	4133	4142	106.26	4427
UP		Anpara TPS	1630	1555	1501	33.00
	Obra TPS	1442	494	646	11.50	479
	Paricha TPS	640	221	229	4.70	196
	Panki TPS	210	155	140	3.20	133
	Harduaganj TPS	415	106	115	2.50	104
	Tanda TPS (NTPC)	440	396	310	9.39	391
	Roza TPS (IPP)	900	441	396	10.60	442
	Anpara-C (IPP)	1200	495	503	12.00	500
	Bajaj Energy Pvt.Ltd(IPP) TPS	180	69	62	1.56	65
	Thermal (Total)	7057	3932	3902	88.45	3685
	Vishnuparyag HPS (IPP)	400	84	79	1.87	78
	Other Hydro	527	202	26	2.56	107
	Cogeneration	951	650	650	15.60	650
	Total UP	8935	4868	4657	108.48	4442
	Uttarakhand	Total Hydro	1303	453	242	8.00
Total Uttarakhand		1303	453	242	8.00	333
Delhi	Rajghat TPS	135	46	53	1.44	60
	Delhi Gas Turbine	282	150	155	3.86	161
	Pragati Gas Turbine	330	308	263	7.31	305
	Rithala GPS	108	19	33	0.41	17
	Bawana GPS	440	134	35	3.53	147
	Badarpur TPS (NTPC)	705	580	560	12.50	521
	Thermal (Total)	2000	1237	1131	29.07	1211
	Total Delhi	2000	1237	1131	29.07	1211
HP	Baspa HPS (IPP)	330	0	0	0.86	36
	Malana HPS (IPP)	101	0	0	0.12	5
	Other Hydro	571	155	71	2.97	124
	Total HP	1002	155	71	4	165
J & K	Baglihar HPS (IPP)	450	296	143	4.23	176
	Other Hydro	323	27	125	1.38	57
	Gas/Diesel/Others	183	0	0	0.00	0
	Total J & K	956	323	268	5.60	233
Total State Control Area Generation		28716	15838	15243	376.98	15630
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			1640	1214	46.01	1917
Total Regional Availability(Gross)		49941	32895	25438	685.13	28469

IV. Total Hydro Generation:

Regional Entities Hydro	10083	6416	921	59.53	2481
State Control Area Hydro	5365	1756	1006	33.59	1400
Total Regional Hydro	15447	8172	1927	93.12	3880

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	100	0	100	100	0.60	0.41	0.19
Gwalior-Agra (D/C)	479	729	1158	0	18.01	0.00	18.01
Zerda-Kankroli	-33	-89	26	145	0.00	1.89	-1.89
Zerda-Bhinmal	39	-8	152	112	0.18	0.00	0.18
Malanpur-Auraiya	-138	-53	0	138	0.00	1.33	-1.33
Badod-Kota/Morak	7	-39	20	59	0.00	0.35	-0.35
Sub Total WR	454	540			18.80	3.98	14.82
Pusauli Bypass	-19	-175	301	246	1.94	1.37	0.58
MZP- GKP (D/C)	502	310	906	0	13.38	0.00	13.38
Patna-Balia(D/C)	381	268	557	0	9.21	0.00	9.21
B'Sharif-Balia (D/C)	243	179	378	0	6.02	0.00	6.02
Barh - balia(D/C)	0	0	0	0	0.00	0.00	0.00
Pusauli-Sahupuri	109	124	169	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	1186	674			33.37	2.19	31.19
Total IR Exch	1640	1214			52.17	6.16	46.01

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
24.20	0.32	24.52	11.14	13.89	-0.05	19.53	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
38.39	23.54	61.92	31.19	14.82	46.01	-7.20	-8.72	-15.92

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	0.00	6.60	90.50	83.90	46.30	9.50

<----- 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					
50.56	5.05	49.52	8.28	49.97	0.31	0.17	50.44	49.73

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	02:09	399	08:22	0.0	0.0	0.0	0.0
Gorakhpur	400	432	02:02	404	08:12	0.0	0.0	44.6	1.4
Bareilly	400	425	23:51	409	18:25	0.0	0.0	13.4	0.0
Kanpur	400	423	02:07	399	10:15	0.0	0.0	2.3	0.0
Dadri	400	422	03:59	399	09:59	0.0	0.0	5.2	0.0
Ballabgarh	400	421	00:00	400	10:18	0.0	0.0	37.4	0.0
Bawana	400	428	04:07	401	09:59	0.0	0.0	32.0	0.0
Bassi	400	423	05:05	398	07:27	0.0	0.0	6.8	0.0
Hissar	400	418	20:44	397	09:33	0.0	0.0	0.0	0.0
Moga	400	428	20:40	410	16:58	0.0	0.0	40.7	0.0
Abdullapur	400	424	23:43	403	09:33	0.0	0.0	9.2	0.0
Nalagarh	400	429	04:07	412	09:32	0.0	0.0	63.6	0.0
Kishenpur	400	421	22:53	401	16:59	0.0	0.0	1.6	0.0
Wagoora	400	406	04:00	378	17:00	0.9	18.3	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 15.01.2012 :

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 : 15.01.2012

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER