

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 16.02.2012
Date of Reporting : 17.02.2012

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
32428	2432	34860	50.04	26779	650	27429	50.18	725.7	45.69

* 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	49.54	12.15		61.69	41.32	45.12	3.81	106.81	2.45
Haryana	59.59	0.56		60.15	29.31	39.75	10.44	99.90	5.80
Rajasthan	92.46	5.20	10.88	108.55	45.23	54.62	9.39	163.17	1.67
Delhi	27.28			27.28	40.51	33.50	-7.01	60.78	0.14
UP	88.76	7.04	14.40	110.20	88.99	93.91	4.92	204.11	30.88
Uttarakhand		9.64		9.64	19.13	19.17	0.04	28.81	2.22
HP		3.98		3.98	19.41	20.41	0.99	24.38	0.23
J & K		4.90	0.00	4.90	25.51	29.16	3.66	34.06	2.30
Chandigarh				0.00	3.61	3.66	0.05	3.66	0.00
Total	317.63	43.47	25.28	386.38	313.01	339.30	26.29	725.68	45.69

* 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	4640	150	-28	-287	4294	0	569	-407	-6.66
Haryana	5078	362	888	-127	3683	0	128	-129	-3.09
Rajasthan	6604	0	414	12	6483	0	546	62	4.27
Delhi	3117	9	-119	-258	1370	0	-42	-530	-8.11
UP	8717	1610	-93	265	7623	650	-68	265	6.36
Uttarakhand	1431	150	65	380	1062	0	31	380	9.12
HP	1090	1	-311	163	784	0	142	323	6.89
J&K	1553	150	84	248	1392	0	217	261	5.80
Chandigarh	198	0	-12	0	87	0	2	-41	-0.33
Total	32428	2432	888	397	26779	650	1525	185	14.25

* 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	1765	1885	1783	42.26	1761	41.83	0.43
	Rihand I STPS	1000	920	997	877	21.90	912	21.74	0.16
	Rihand II STPS	1000	977	1040	942	23.11	963	22.96	0.16
	Dadri I STPS	840	798	852	622	17.65	735	17.70	-0.05
	Dadri II STPS	980	976	1016	745	21.69	904	22.07	-0.39
	Unchahar I TPS	440	406	441	361	9.47	394	9.39	0.08
	Unchahar II TPS	440	404	439	308	9.27	386	9.07	0.20
	Unchahar III TPS	210	202	229	153	4.63	193	4.55	0.08
	ISTPP (Jhajjar)	1000	488	509	485	11.12	463	11.54	-0.42
	Dadri GPS	830	846	725	534	16.22	676	16.29	-0.07
	Anta GPS	419	429	337	313	7.95	331	7.84	0.11
	Auraiya GPS	663	648	484	412	10.79	450	10.88	-0.09
	Sub Total (A)	9822	8860	8954	7535	196.05	8169	195.85	0.20
	B. NPC	NAPS	440	139	161	151	3.34	139	3.34
RAPS- B		440	423	473	475	10.23	426	10.15	0.07
RAPS- C		440	420	478	476	10.26	428	10.08	0.18
Sub Total (B)		1320	982	1112	1102	23.83	993	23.57	0.26
C. NHPC	Chamera I HPS	540	534	540	0	4.01	167	4.01	0.00
	Chamera II HPS	300	297	223	29	1.64	68	1.57	0.06
	Bairasuil HPS	180	120	100	0	1.41	59	1.48	-0.08
	Salal-HPS	690	163	308	70	4.05	169	4.07	-0.01
	Tanakpur-HPS	94	26	29	16	0.52	22	0.54	-0.02
	Uri-HPS	480	243	281	207	5.55	231	5.52	0.03
	Dhauliganga-HPS	280	163	140	0	0.79	33	0.80	-0.01
	Dulhasti-HPS	390	0	0	0	0.00	0	0.00	0.00
	Sewa-II HPS	120	119	122	80	2.35	98	2.45	-0.09
	Sub Total (C)	3074	1663	1743	402	20.32	846	20.43	-0.11
D. NJPC	Nathpa Jhakri	1500	1133	1208	0	5.06	211	5.00	0.06
	Sub Total (D)	1500	1133	1208	0	5.06	211	5.00	0.06
E. THDC	Tehri HPS	1000	749	906	0	8.72	363	8.75	-0.04
	Koteshwar HPS	200	175	300	0	3.32	138	3.30	0.02
	Sub Total (E)	1200	924	1206	0	12.03	501	12.05	-0.02
F. BBMB	Bhakra HPS	1480	772	996	390	18.88	787	18.53	0.35
	Dehar HPS	990	132	495	0	3.46	144	3.17	0.30
	Pong HPS	396	218	366	60	5.40	225	5.22	0.18
	Sub Total (F)	2866	1122	1857	450	27.74	1156	26.92	0.82
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	0	0	0.25	10	0.23	0.01
	KWHEP HPS(IPP)	1000	0	550	0	2.97	124	3.27	-0.30
	Malana Stg-II HPS	100	0	0	0	0.00	0	0.00	0.00
	Shree Cement TPS	150	0	139	128	3.37	140	3.09	0.28
	Sub Total (G)	1442	0	689	128	6.58	274	6.59	-0.01
H. Total Regional Entities (A-G)	21225	14683	16769	9617	291.61	12150	290.40	1.21	

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	1045	1045	23.39	974
	Guru Nanak Dev TPS(Bhatinda)	440	218	218	4.71	196
	Guru Hargobind Singh TPS(L.mbt)	920	657	966	21.44	893
	Thermal (Total)	2620	1920	2229	49.54	2064
	Total Hydro	1148	382	292	12.15	506
	Total Punjab	3768	2302	2521	61.69	2570
Haryana	Panipat TPS	1360	834	825	20.25	844
	DCRTPP (Yamuna nagar)	600	276	277	6.55	273
	Faridabad GPS (NTPC)	432	426	324	9.97	415
	RGTPP (kheldar) (IPP)	1200	857	891	22.82	951
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	660	0	0	0.00	0
	Thermal (Total)	4277	2393	2317	59.59	2483
	Total Hydro	62	20	23	0.56	23
	Total Haryana	4339	2413	2340	60.15	2506
Rajasthan	kota TPS	1240	1172	1177	27.46	1144
	suratgarh TPS	1500	1383	1379	32.40	1350
	Chabra TPS	500	449	449	10.76	448
	Dholpur GPS	330	227	225	5.45	227
	Ramgarh GPS	113	43	46	1.08	45
	RAPS A (NPC)	300	183	184	4.51	188
	Barsingsar (NLC)	250	115	115	2.59	108
	Giral LTPS (IPP)	250	0	0	0.00	0
	Rajwest LTPS (IPP)	540	345	345	8.21	342
	VSLP LTPS (IPP)	135	0	0	0.00	0
	Thermal (Total)	5158	3917	3920	92.46	3853
	Total Hydro	550	213	202	5.20	217
	Wind power	1294	152	184	4.64	193
	Biomass	71	43	43	1.04	43
	Solar	50	0	0	0.00	0
	Renewable/Others (Total)	1365	195	227	10.88	453
	Total Rajasthan	7073	4325	4349	108.55	4523
UP	Anpara TPS	1630	1531	1513	32.00	1333
	Obra TPS	1442	657	508	13.10	546
	Paricha TPS	640	226	218	4.80	200
	Panki TPS	210	190	90	3.30	138
	Harduaganj TPS	415	261	305	6.40	267
	Tanda TPS (NTPC)	440	293	292	7.26	303
	Roza TPS (IPP)	900	549	459	13.00	541
	Anpara-C (IPP)	1200	378	284	7.41	309
	Bajaj Energy Pvt.Ltd(IPP) TPS	180	72	95	1.50	62
	Thermal (Total)	7057	4157	3764	88.76	3698
	Vishnuparyag HPS (IPP)	400	69	64	1.66	69
	Other Hydro	527	277	54	5.38	224
	Cogeneration	951	600	600	14.40	600
	Total UP	8935	5103	4482	110.20	4522
Uttarakhand	Total Hydro	1303	520	305	9.64	402
	Total Uttarakhand	1303	520	305	9.64	402
Delhi	Rajghat TPS	135	106	107	2.83	118
	Delhi Gas Turbine	282	81	80	1.86	77
	Pragati Gas Turbine	330	311	268	7.45	311
	Rithala GPS	108	13	13	0.63	26
	Bawana GPS	440	143	44	4.38	182
	Badarpur TPS (NTPC)	705	470	390	10.14	422
	Thermal (Total)	2000	1124	1005	27.28	1137
	Total Delhi	2000	1124	1005	27.28	1137
HP	Baspa HPS (IPP)	330	0	0	0.97	40
	Malana HPS (IPP)	101	0	0	0.20	8
	Other Hydro	571	156	55	2.81	117
	Total HP	1002	156	55	4	166
J & K	Baglihar HPS (IPP)	450	150	150	3.13	131
	Other Hydro	323	82	124	1.76	73
	Gas/Diesel/Others	183	0	0	0.00	0
	Total J & K	956	232	274	4.90	204
Total State Control Area Generation		29376	16175	15331	386.38	16030
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			1255	2794	62.37	2599
Total Regional Availability(Gross)		50601	34199	27742	740.36	30779

IV. Total Hydro Generation:

Regional Entities Hydro	10083	6703	980	71.73	2989
State Control Area Hydro	5365	1800	1205	41.81	1742
Total Regional Hydro	15447	8503	2185	113.54	4731

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	450	100	450	100	2.96	0.10	2.86
Gwalior-Agra (D/C)	169	909	1177	0	19.33	0.00	19.33
Zerda-Kankroli	-101	-7	142	145	0.04	0.00	0.04
Zerda-Bhinmal	-20	113	316	90	2.67	0.00	2.67
Malanpur-Auraiya	-93	-68	0	164	0.00	1.56	-1.56
Badod-Kota/Morak	13	-26	50	29	0.00	0.05	-0.05
Sub Total WR	418	1021			25.01	1.71	23.30
Pusauli Bypass	-89	212	265	89	3.83	0.11	3.72
MZP- GKP (D/C)	324	470	684	0	12.87	0.00	12.87
Patna-Balia(D/C)	307	330	369	0	7.48	0.00	7.48
B'Sharif-Balia (D/C)	210	331	358	0	6.38	0.00	6.38
Barh - balia(D/C)	0	353	390	0	5.76	0.00	5.76
Pusauli-Sahupuri	115	109	165	0	3.52	0.00	3.52
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-30	-32	0	48	0.00	0.66	-0.66
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sub Total ER	837	1773			39.84	0.77	39.07
Total IR Exch	1255	2794			64.84	2.47	62.37

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
22.03	0.18	22.21	6.33	10.40	-0.52	10.01	2.84	-2.84

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
30.86	10.88	41.73	39.07	23.30	62.37	8.21	12.42	20.64

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	3.00	19.60	93.60	77.00	21.80	3.40

<----- 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					
50.45	3.21	49.31	20.18	49.86	0.54	0.19	50.29	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	408	03:03	399	12:47	0.0	0.0	0.0	0.0
Gorakhpur	400	434	17:02	411	06:35	0.0	0.0	91.8	4.1
Bareilly	400	423	04:02	403	06:35	0.0	0.0	7.0	0.0
Kanpur	400	421	03:36	399	12:45	0.0	0.0	0.4	0.0
Dadri	400	423	03:36	399	14:27	0.0	0.0	9.1	0.0
Ballabgarh	400	426	03:04	0	11:01	27.4	27.4	18.5	0.0
Bawana	400	427	03:03	402	11:06	0.0	0.0	42.7	0.0
Bassi	400	424	05:03	395	12:45	0.0	0.0	5.8	0.0
Hissar	400	414	20:14	389	12:44	0.0	2.1	0.0	0.0
Moga	400	425	05:03	401	11:05	0.0	0.0	3.8	0.0
Abdullapur	400	425	03:02	285	16:47	0.0	0.0	19.0	0.0
Nalagarh	400	429	05:03	402	11:05	0.0	0.0	16.8	0.0
Kishenpur	400	419	05:02	396	09:14	0.0	0.0	0.0	0.0
Wagoora	400	401	13:02	377	19:16	9.3	73.9	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	492.39	808.03	496.31	948.89	174.40	577.50
Pong	426.72	384.05	410.01	494.27	413.39	611.20	99.14	338.50
Tehri	829.79	740.04	792.10	483.10	818.65	982.26	50.39	219.00
Koteshwar	612.50	598.50	608.60	3.98	NZ	NA	224.00	269.00
Chamera-I	760.00	748.75	754.06	NA	NA	NA	88.30	72.46
Rihand	268.22	252.98	262.80	435.50	256.30	131.20	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	500.86	NA	504.02	NA	65.44	211.36

* NA: Not Available

IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

XI. Weather Conditions For 16.02.2012 :

1. Rains & Snow in J & K , HP .rest NR cold normal 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 : 16.02.2012

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER