

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 15.02.2012
Date of Reporting : 16.02.2012

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
32393	2969	35362	49.89	26591	650	27241	50.09	727.0	48.94

* 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	48.85	11.75		60.60	41.20	43.75	2.55	104.35	5.20
Haryana	54.99	0.53		55.52	30.23	42.85	12.61	98.37	6.90
Rajasthan	91.62	4.65	14.82	111.10	45.29	52.54	7.25	163.64	0.69
Delhi	27.38			27.38	40.15	33.70	-6.45	61.08	0.16
UP	87.17	7.11	14.40	108.68	90.27	99.20	8.93	207.88	31.47
Uttarakhand		9.82		9.82	18.41	20.20	1.79	30.01	1.75
HP		3.96		3.96	19.67	20.53	0.86	24.49	0.48
J & K		5.62	0.00	5.62	25.68	27.96	2.27	33.58	2.30
Chandigarh				0.00	3.62	3.61	0.00	3.61	0.00
Total	310.02	43.43	29.22	382.68	314.52	344.32	29.81	727.00	48.94

* 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	4537	725	-118	-287	4012	0	237	-401	-6.62
Haryana	5029	280	987	-127	3635	0	349	-127	-3.05
Rajasthan	6690	0	398	32	6467	0	275	82	4.75
Delhi	3104	51	-231	-118	1377	0	11	-410	-5.14
UP	8767	1610	208	265	7864	650	-54	265	6.36
Uttarakhand	1409	150	57	360	1119	0	110	360	8.64
HP	1094	3	-296	103	772	0	151	323	6.53
J&K	1570	150	34	248	1257	0	69	255	5.68
Chandigarh	193	0	-18	0	88	0	-2	-41	-0.33
Total	32393	2969	1021	477	26591	650	1147	306	16.82

* 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)	UI [OG:(+ve), UG: (-ve)]	
								Schedule Net MU	UI Net MU
A. NTPC	Singrauli STPS	2000	1765	1889	1843	44.05	1835	42.06	1.98
	Rihand I STPS	1000	920	997	951	22.13	922	21.87	0.25
	Rihand II STPS	1000	977	1038	970	23.35	973	23.17	0.17
	Dadri I STPS	840	798	868	627	17.00	708	17.26	-0.27
	Dadri II STPS	980	976	1017	751	21.54	897	21.98	-0.44
	Unchahar I TPS	440	406	439	364	9.52	396	9.41	0.10
	Unchahar II TPS	440	404	440	313	9.33	389	9.11	0.22
	Unchahar III TPS	210	202	220	165	4.66	194	4.58	0.08
	ISTPP (Jhajjar)	1000	485	488	484	10.70	446	11.43	-0.73
	Dadri GPS	830	830	699	424	14.31	596	14.78	-0.48
	Anta GPS	419	429	349	285	8.11	338	7.90	0.21
	Auraiya GPS	663	647	545	407	12.21	509	12.13	0.08
	Sub Total (A)	9822	8839	8989	7584	196.87	8203	195.68	1.19
	B. NPC	NAPS	440	139	159	161	3.40	142	3.34
RAPS- B		440	426	471	474	10.20	425	10.22	-0.03
RAPS- C		440	420	475	478	10.24	427	10.08	0.16
Sub Total (B)		1320	985	1105	1113	23.83	993	23.64	0.19
C. NHPC	Chamera I HPS	540	534	540	0	3.50	146	3.56	-0.06
	Chamera II HPS	300	297	224	0	1.28	53	1.21	0.07
	Bairasuil HPS	180	120	120	0	1.56	65	1.70	-0.15
	Salal-HPS	690	166	308	70	4.26	178	3.99	0.28
	Tanakpur-HPS	94	26	21	16	0.52	22	0.57	-0.04
	Uri-HPS	480	225	281	224	5.56	232	5.29	0.26
	Dhauliganga-HPS	280	210	211	0	0.77	32	0.78	-0.01
	Dulhasti-HPS	390	0	0	0	0.00	0	0.00	0.00
	Sewa-II HPS	120	119	121	80	2.49	104	2.63	-0.14
	Sub Total (C)	3074	1697	1826	390	19.93	830	19.73	0.20
D. NJPC	Nathpa Jhakri	1500	1133	1598	0	7.49	312	6.93	0.56
	Sub Total (D)	1500	1133	1598	0	7.49	312	6.93	0.56
E. THDC	Tehri HPS	1000	758	679	0	8.77	365	8.75	0.02
	Koteshwar HPS	200	175	300	0	3.26	136	3.30	-0.04
	Sub Total (E)	1200	933	979	0	12.03	501	12.05	-0.02
F. BBMB	Bhakra HPS	1480	782	994	572	18.82	784	18.77	0.05
	Dehar HPS	990	132	495	0	3.63	151	3.17	0.47
	Pong HPS	396	229	366	126	5.74	239	5.49	0.25
	Sub Total (F)	2866	1143	1855	698	28.19	1175	27.42	0.77
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	53	0	0.21	9	0.20	0.01
	KWHEP HPS(IPP)	1000	0	530	0	3.37	140	3.36	0.00
	Malana Stg-II HPS	100	0	0	0	0.00	0	0.00	0.00
	Shree Cement TPS	150	0	144	145	3.30	138	3.40	-0.10
	Sub Total (G)	1442	0	727	145	6.88	287	6.96	-0.08
H. Total Regional Entities (A-G)	21225	14730	17079	9930	295.22	12301	292.42	2.80	

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	1040	1045	23.24	968
	Guru Nanak Dev TPS(Bhatinda)	440	218	218	4.71	196
	Guru Hargobind Singh TPS(L.mbt)	920	963	967	20.90	871
	Thermal (Total)	2620	2221	2230	48.85	2035
	Total Hydro	1148	380	318	11.75	490
	Total Punjab	3768	2601	2548	60.60	2525
Haryana	Panipat TPS	1360	821	808	19.86	827
	DCRTPP (Yamuna nagar)	600	0	0	0.33	14
	Faridabad GPS (NTPC)	432	426	377	10.19	424
	RGTPP (khedar) (IPP)	1200	1020	903	24.62	1026
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	660	0	0	0.00	0
	Thermal (Total)	4277	2267	2088	54.99	2291
	Total Hydro	62	24	22	0.53	22
	Total Haryana	4339	2291	2110	55.52	2313
Rajasthan	kota TPS	1240	1170	1068	27.29	1137
	suratgarh TPS	1500	1364	1362	31.50	1312
	Chabra TPS	500	443	384	10.46	436
	Dholpur GPS	330	226	226	5.48	228
	Ramgarh GPS	113	43	45	1.11	46
	RAPS A (NPC)	300	182	184	4.53	189
	Barsingsar (NLC)	250	98	98	2.70	113
	Giral LTPS (IPP)	250	0	54	0.30	12
	Rajwest LTPS (IPP)	540	345	265	8.27	345
	VSLP LTPS (IPP)	135	0	0	0.00	0
	Thermal (Total)	5158	3871	3686	91.62	3818
	Total Hydro	550	228	149	4.65	194
	Wind power	1294	194	687	9.09	379
	Biomass	71	45	45	1.08	45
	Solar	50	0	0	0.00	0
	Renewable/Others (Total)	1365	239	732	14.82	618
	Total Rajasthan	7073	4338	4567	111.10	4629
	UP	Anpara TPS	1630	1495	1560	32.80
Obra TPS		1442	517	516	11.20	467
Paricha TPS		640	167	174	3.80	158
Panki TPS		210	135	75	2.00	83
Harduaganj TPS		415	299	296	6.00	250
Tanda TPS (NTPC)		440	290	393	8.87	369
Roza TPS (IPP)		900	549	549	13.19	550
Anpara-C (IPP)		1200	279	279	6.77	282
Bajaj Energy Pvt.Ltd(IPP) TPS		180	95	117	2.55	106
Thermal (Total)		7057	3826	3959	87.17	3632
Vishnuparyag HPS (IPP)		400	73	74	1.77	74
Other Hydro		527	276	53	5.34	222
Cogeneration		951	600	600	14.40	600
Total UP		8935	4775	4686	108.68	4455
Uttarakhand		Total Hydro	1303	522	374	9.82
	Total Uttarakhand	1303	522	374	9.82	409
Delhi	Rajghat TPS	135	105	104	2.79	116
	Delhi Gas Turbine	282	82	80	1.97	82
	Pragati Gas Turbine	330	309	265	7.42	309
	Rithala GPS	108	13	15	0.59	25
	Bawana GPS	440	143	46	4.59	191
	Badarpur TPS (NTPC)	705	475	405	10.03	418
	Thermal (Total)	2000	1127	1016	27.38	1141
	Total Delhi	2000	1127	1016	27.38	1141
HP	Baspa HPS (IPP)	330	0	0	0.96	40
	Malana HPS (IPP)	101	42	0	0.17	7
	Other Hydro	571	133	55	2.82	118
	Total HP	1002	175	55	4	165
J & K	Baglihar HPS (IPP)	450	150	150	3.60	150
	Other Hydro	323	83	126	2.02	84
	Gas/Diesel/Others	183	0	0	0.00	0
	Total J & K	956	233	276	5.62	234
Total State Control Area Generation		29376	16062	15632	382.68	15871
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			1826	2176	65.92	2747
Total Regional Availability(Gross)		50601	34967	27738	743.82	30919

IV. Total Hydro Generation:

Regional Entities Hydro	10083	6985	1233	74.52	3105
State Control Area Hydro	5365	1838	1247	41.66	1736
Total Regional Hydro	15447	8823	2480	116.18	4841

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	150	0	1.56	0.00	1.56
Gwalior-Agra (D/C)	347	804	1110	0	20.43	0.00	20.43
Zerda-Kankroli	-58	-91	106	109	0.00	0.34	-0.34
Zerda-Bhinmal	20	-20	262	99	2.61	0.00	2.61
Malanpur-Auraiya	-78	-56	0	128	0.00	1.50	-1.50
Badod-Kota/Morak	14	46	70	30	0.57	0.00	0.57
Sub Total WR	345	683			25.16	1.84	23.32
Pusauli Bypass	85	212	367	5	4.55	0.00	4.55
MZP- GKP (D/C)	540	349	768	0	13.00	0.00	13.00
Patna-Balia(D/C)	252	286	546	0	8.05	0.00	8.05
B'Sharif-Balia (D/C)	219	262	361	0	6.87	0.00	6.87
Barh - balia(D/C)	277	307	410	0	8.11	0.00	8.11
Pusauli-Sahupuri	138	109	161	0	2.90	0.00	2.90
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-30	-32	0	48	0.00	0.89	-0.89
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sub Total ER	1481	1493			43.49	0.89	42.60
Total IR Exch	1826	2176			68.65	2.73	65.92

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
23.00	0.20	23.20	7.87	10.45	-0.80	7.24	2.81	-2.81

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
33.07	8.20	41.27	42.60	23.32	65.92	9.52	15.12	24.65

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	0.90	16.30	97.20	81.80	24.50	1.90

<----- 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					
50.34	5.03	49.37	6.49	49.87	0.43	0.16	50.22	0.00

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	03:01	398	13:06	0.0	0.0	0.0	0.0
Gorakhpur	400	431	17:04	406	06:43	0.0	0.0	42.9	1.5
Bareilly	400	420	03:58	395	06:48	0.0	0.0	0.0	0.0
Kanpur	400	418	04:01	397	10:18	0.0	0.0	0.0	0.0
Dadri	400	421	03:01	398	10:18	0.0	0.0	1.7	0.0
Ballabgarh	400	423	03:05	401	12:33	26.4	26.4	9.7	0.0
Bawana	400	425	03:03	401	09:46	0.0	0.0	18.5	0.0
Bassi	400	422	21:33	391	12:40	0.0	0.0	2.5	0.0
Hissar	400	412	03:58	392	09:49	0.0	0.0	0.0	0.0
Moga	400	423	21:23	400	09:49	0.0	0.0	1.5	0.0
Abdullapur	400	424	02:29	281	12:43	0.0	0.0	8.9	0.0
Nalagarh	400	427	21:32	402	10:19	0.0	0.0	14.0	0.0
Kishenpur	400	420	21:23	393	06:32	0.0	0.0	0.0	0.0
Wagoora	400	409	21:23	372	22:19	11.2	56.2	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 15.02.2012 :

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 :
1: 125 MVAR Bus Reactor first time test charged at 23.58 hrs of dt 15.02.2012 at Lucknow (PG).

XIV. Tripping of lines in pooling stations :

XV. Complete generation loss in a generating station :

Report for : 15.02.2012

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER