

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 26.02.2012
Date of Reporting : 27.02.2012

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
29649	1959	31608	49.80	27016	350	27366	50.14	699.6	28.13

* 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	48.43	11.37		59.80	37.35	38.03	0.68	97.83	1.80
Haryana	50.81	0.61		51.42	25.67	46.84	21.17	98.26	3.99
Rajasthan	83.20	4.85	14.65	102.70	51.34	61.15	9.81	163.85	0.25
Delhi	25.81			25.81	38.45	28.79	-9.66	54.60	0.08
UP	91.07	7.18	14.40	112.66	89.25	86.80	-2.45	199.45	18.64
Uttarakhand		9.54		9.54	18.03	17.56	-0.47	27.10	1.08
HP		4.63		4.63	19.81	17.80	-2.00	22.43	0.00
J & K		5.72	0.00	5.72	27.42	27.24	-0.18	32.95	2.30
Chandigarh				0.00	3.67	3.17	-0.50	3.17	0.00
Total	299.32	43.89	29.05	372.27	310.98	327.36	16.37	699.63	28.13

* 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	4074	600	15	-287	3842	0	290	-407	-6.66
Haryana	4492	194	1002	-127	3555	0	601	-127	-3.05
Rajasthan	5970	0	-67	62	6626	0	973	112	5.45
Delhi	2744	0	-564	-119	1293	0	-595	-391	-4.98
UP	8479	1015	-420	265	8467	350	63	265	6.36
Uttarakhand	1312	0	-73	350	1051	0	45	350	8.40
HP	902	0	-487	223	787	0	135	323	7.25
J&K	1509	150	-72	248	1308	0	47	255	5.67
Chandigarh	167	0	-39	0	88	0	-1	-41	-0.33
Total	29649	1959	-706	614	27016	350	1558	338	18.12

* 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	1960	2110	2111	47.44	1977	47.04	0.40
	Rihand I STPS	1000	920	997	985	22.14	922	22.08	0.05
	Rihand II STPS	1000	975	1032	1036	23.50	979	23.40	0.10
	Dadri I STPS	840	800	627	612	14.36	598	14.62	-0.26
	Dadri II STPS	980	976	981	716	19.46	811	20.43	-0.97
	Unchahar I TPS	440	406	439	386	9.22	384	9.13	0.08
	Unchahar II TPS	440	404	442	310	9.26	386	8.83	0.43
	Unchahar III TPS	210	202	218	170	4.63	193	4.48	0.14
	ISTPP (Jhajjar)	1000	0	0	0	0.00	0	0.00	0.00
	Dadri GPS	830	841	560	489	12.76	532	12.89	-0.13
	Anta GPS	419	423	326	293	7.27	303	6.94	0.33
	Auraiya GPS	663	641	308	398	8.59	358	8.35	0.24
	Sub Total (A)	9822	8548	8040	7506	178.61	7442	178.20	0.41
B. NPC	NAPS	440	138	159	163	3.05	127	3.31	-0.27
	RAPS- B	440	424	466	468	10.22	426	10.18	0.04
	RAPS- C	440	420	469	476	10.36	432	10.08	0.28
	Sub Total (B)	1320	982	1094	1107	23.62	984	23.57	0.05
C. NHPC	Chamera I HPS	540	534	450	0	3.81	159	4.00	-0.19
	Chamera II HPS	300	223	174	0	1.77	74	1.79	-0.02
	Bairasuil HPS	180	179	179	0	1.77	74	1.72	0.05
	Salal-HPS	690	159	314	112	4.24	177	3.86	0.38
	Tanakpur-HPS	94	27	30	17	0.49	21	0.50	-0.01
	Uri-HPS	480	356	413	217	8.48	353	8.23	0.25
	Dhauliganga-HPS	280	277	278	0	0.73	30	0.78	-0.06
	Dulhasti-HPS	390	0	0	0	0.00	0	0.00	0.00
	Sewa-II HPS	120	119	124	96	2.60	108	2.83	-0.23
	Sub Total (C)	3074	1874	1962	442	23.89	995	23.72	0.17
D. NJPC	Nathpa Jhakri	1500	1133	1159	0	6.53	272	6.96	-0.43
	Sub Total (D)	1500	1133	1159	0	6.53	272	6.96	-0.43
E. THDC	Tehri HPS	1000	860	860	0	7.96	332	8.00	-0.04
	Koteshwar HPS	200	175	302	0	2.86	119	2.80	0.06
	Sub Total (E)	1200	1035	1162	0	10.82	451	10.80	0.02
F. BBMB	Bhakra HPS	1480	743	996	417	18.29	762	17.84	0.45
	Dehar HPS	990	151	495	0	3.87	161	3.62	0.25
	Pong HPS	396	171	306	66	4.27	178	4.12	0.15
	Sub Total (F)	2866	1066	1797	483	26.43	1101	25.57	0.86
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	0	0	0.22	9	0.21	0.01
	KWHEP HPS(IPP)	1000	0	275	0	3.63	151	3.68	-0.05
	Malana Stg-II HPS	100	0	0	0	0.00	0	0.00	0.00
	Shree Cement TPS	150	0	146	144	3.48	145	3.46	0.02
	Sub Total (G)	1442	0	421	144	7.33	306	7.35	-0.02
H. Total Regional Entities (A-G)	21225	14638	15635	9682	277.23	11551	276.18	1.06	

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	900	1135	22.88	953	
	Guru Nanak Dev TPS(Bhatinda)	440	219	219	4.76	198	
	Guru Hargobind Singh TPS(L.mbt)	920	866	965	20.80	867	
	Thermal (Total)	2620	1985	2319	48.43	2018	
	Total Hydro	1148	355	271	11.37	474	
	Total Punjab	3768	2340	2590	59.80	2492	
Haryana	Panipat TPS	1360	856	855	20.43	851	
	DCRTPP (Yamuna nagar)	600	278	280	6.58	274	
	Faridabad GPS (NTPC)	432	419	441	10.25	427	
	RGTPP (kheldar) (IPP)	1200	561	499	13.57	565	
	Magnum Diesel (IPP)	25	0	0	0.00	0	
	Jhajjar(CLP)	660	0	0	0.00	0	
	Thermal (Total)	4277	2114	2075	50.81	2117	
	Total Hydro	62	23	23	0.61	25	
	Total Haryana	4339	2137	2098	51.42	2143	
	Rajasthan	kota TPS	1240	1096	973	25.39	1058
suratgarh TPS		1500	1136	1116	26.67	1111	
Chabra TPS		500	417	212	8.25	344	
Dholpur GPS		330	235	190	5.50	229	
Ramgarh GPS		113	43	46	1.10	46	
RAPS A (NPC)		300	183	186	4.54	189	
Barsingsar (NLC)		250	64	110	2.09	87	
Giral LTPS (IPP)		250	0	0	0.00	0	
Rajwest LTPS (IPP)		540	414	412	9.66	402	
VSLP LTPS (IPP)		135	0	0	0.00	0	
Thermal (Total)		5158	3588	3245	83.20	3467	
Total Hydro		550	130	213	4.85	202	
Wind power		1294	202	409	8.69	362	
Biomass		71	46	46	1.11	46	
Solar		50	0	0	0.00	0	
Renewable/Others (Total)		1365	248	455	14.65	610	
Total Rajasthan		7073	3966	3913	102.70	4279	
UP		Anpara TPS	1630	1367	1359	30.60	1275
		Obra TPS	1442	575	567	13.80	575
		Paricha TPS	640	213	208	5.00	208
	Panki TPS	210	153	162	3.80	158	
	Harduaganj TPS	415	205	227	5.20	217	
	Tanda TPS (NTPC)	440	398	403	9.58	399	
	Roza TPS (IPP)	900	549	549	12.29	512	
	Anpara-C (IPP)	1200	375	379	8.87	369	
	Bajaj Energy Pvt.Ltd(IPP) TPS	180	91	36	1.94	81	
	Thermal (Total)	7057	3926	3890	91.07	3795	
	Vishnuparyag HPS (IPP)	400	69	64	1.62	67	
	Other Hydro	527	280	0	5.57	232	
	Cogeneration	951	600	600	14.40	600	
	Total UP	8935	4875	4554	112.66	4627	
	Uttarakhand	Total Hydro	1303	513	363	9.54	398
Total Uttarakhand		1303	513	363	9.54	398	
Delhi	Rajghat TPS	135	105	96	2.37	99	
	Delhi Gas Turbine	282	0	82	0.77	32	
	Pragati Gas Turbine	330	312	267	6.87	286	
	Rithala GPS	108	26	28	0.64	27	
	Bawana GPS	440	180	27	2.62	109	
	Badarpur TPS (NTPC)	705	560	565	12.54	523	
	Thermal (Total)	2000	1183	1038	25.81	1075	
	Total Delhi	2000	1183	1038	25.81	1075	
HP	Baspa HPS (IPP)	330	41	0	0.95	40	
	Malana HPS (IPP)	101	0	0	0.11	5	
	Other Hydro	571	165	127	3.56	149	
	Total HP	1002	206	127	5	193	
J & K	Baglihar HPS (IPP)	450	150	140	3.75	156	
	Other Hydro	323	84	90	1.97	82	
	Gas/Diesel/Others	183	0	0	0.00	0	
	Total J & K	956	234	230	5.72	238	
Total State Control Area Generation		29376	15454	14913	372.27	15444	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			1477	3174	70.47	2936	
Total Regional Availability(Gross)		50601	32566	27769	719.97	29932	

IV. Total Hydro Generation:

Regional Entities Hydro	10083	6501	1069	75.00	3125
State Control Area Hydro	5365	1741	1227	42.28	1762
Total Regional Hydro	15447	8242	2296	117.28	4887

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	200	0	500	0	3.89	0.00	3.89
Gwalior-Agra (D/C)	373	894	1210	0	19.62	0.00	19.62
Zerda-Kankroli	-104	77	205	114	0.33	0.00	0.33
Zerda-Bhinmal	-39	164	371	73	2.61	0.00	2.61
Malanpur-Auraiya	-126	-72	0	126	0.00	0.53	-0.53
Badod-Kota/Morak	14	75	101	21	0.82	0.00	0.82
Sub Total WR	318	1138			27.27	0.53	26.74
Pusauli Bypass	-82	88	268	82	1.32	0.41	0.90
MZP- GKP (D/C)	282	716	854	0	13.18	0.00	13.18
Patna-Balia(D/C)	318	407	665	0	11.10	0.00	11.10
B'Sharif-Balia (D/C)	219	298	437	0	7.78	0.00	7.78
Barh - balia(D/C)	317	403	464	0	8.41	0.00	8.41
Pusauli-Sahupuri	135	156	177	0	3.31	0.00	3.31
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-30	-32	0	48	0.00	0.95	-0.95
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sub Total ER	1159	2036			45.10	1.36	43.73
Total IR Exch	1477	3174			72.37	1.90	70.47

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
26.04	0.21	26.25	8.99	10.30	0.71	-0.36	2.66	-2.66

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
38.61	4.77	43.39	43.73	26.74	70.47	5.12	21.97	27.09

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	1.30	8.60	94.70	87.40	34.70	4.00

<----- 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					
50.48	6.03	49.36	0.06	49.93	0.34	0.17	50.37	49.76

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	405	03:56	395	09:40	0.0	0.0	0.0	0.0
Gorakhpur	400	436	14:02	404	06:40	0.0	0.0	64.8	8.1
Bareilly	400	419	17:07	402	12:40	0.0	0.0	0.0	0.0
Kanpur	400	413	02:03	398	06:40	0.0	0.0	0.0	0.0
Dadri	400	419	02:09	401	12:08	0.0	0.0	0.0	0.0
Ballabgarh	400	422	02:09	401	12:37	0.0	0.0	3.1	0.0
Bawana	400	422	02:10	401	12:07	0.0	0.0	5.5	0.0
Bassi	400	423	20:57	395	06:36	0.0	0.0	3.9	0.0
Hissar	400	415	05:06	392	12:38	0.0	0.0	0.0	0.0
Moga	400	427	05:06	404	10:20	0.0	0.0	23.8	0.0
Abdullapur	400	425	05:07	403	12:41	0.0	0.0	17.4	0.0
Nalagarh	400	431	05:09	403	11:08	0.0	0.0	32.2	0.2
Kishenpur	400	420	05:06	396	10:23	0.0	0.0	0.0	0.0
Wagoora	400	402	18:00	378	07:47	3.2	52.3	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	488.44	680.71	494.37	880.64	143.93	555.35
Pong	426.72	384.05	408.47	444.61	411.95	566.84	68.16	276.60
Tehri	829.79	740.04	785.50	385.20	818.65	982.26	51.12	211.00
Koteshwar	612.50	598.50	608.60	3.98	NA	NA	211.00	189.00
Chamera-I	760.00	748.75	NA	NA	NA	NA	105.85	103.21
Rihand	268.22	252.98	261.52	390.50	255.94	113.80	NA	NA
RPS	352.80	343.81	348.56	NA	NA	NA	NA	228.74
Jawahar Sagar	298.70	295.78	297.80	NA	NA	NA	NA	239.84
RSD	527.91	487.91	498.39	NA	504.41	NA	136.09	199.89

* NA: Not Available

IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

XI. Weather Conditions For 26.02.2012 :

1. 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 : 26.02.2012

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER