

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 28.02.2012
Date of Reporting : 29.02.2012

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
30805	2381	33187	49.72	27746	350	28096	50.05	726.9	34.45

* 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	49.24	12.78		62.02	40.83	42.43	1.61	104.45	1.80
Haryana	49.44	0.61		50.06	25.31	51.52	26.21	101.58	5.50
Rajasthan	87.20	4.69	9.66	101.55	53.27	61.78	8.51	163.33	1.40
Delhi	27.35			27.35	40.40	27.84	-12.56	55.18	0.00
UP	95.26	7.79	14.40	117.45	88.07	98.33	10.26	215.78	21.15
Uttarakhand		9.42		9.42	15.71	17.69	1.98	27.11	2.30
HP		4.57		4.57	19.51	19.10	-0.41	23.67	0.00
J & K		5.57	0.00	5.57	27.34	26.78	-0.56	32.34	2.30
Chandigarh				0.00	3.65	3.43	-0.21	3.43	0.00
Total	308.49	45.43	24.06	377.97	314.09	348.91	34.82	726.88	34.45

* 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	4913	150	99	-437	3864	0	132	-407	-6.81
Haryana	4505	496	1143	-141	3493	0	571	-141	-3.39
Rajasthan	6104	0	17	76	6874	0	1112	126	5.79
Delhi	2917	0	-184	-111	1310	0	-514	-383	-4.77
UP	8699	1215	-170	265	9007	350	608	265	6.36
Uttarakhand	994	370	-237	350	1012	0	216	350	8.40
HP	1014	0	-165	223	784	0	74	323	7.25
J&K	1477	150	-36	243	1314	0	16	253	5.58
Chandigarh	183	0	-19	0	88	0	1	-41	-0.33
Total	30805	2381	448	468	27746	350	2216	345	18.08

* 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	2111	2098	47.59	1983	47.04	0.55
	Rihand I STPS	1000	906	1036	952	21.03	876	21.30	-0.27
	Rihand II STPS	1000	975	1036	1036	23.43	976	22.79	0.64
	Dadri I STPS	840	691	658	605	14.58	607	14.65	-0.08
	Dadri II STPS	980	833	790	683	17.39	725	17.85	-0.46
	Unchahar I TPS	440	406	439	374	9.65	402	9.50	0.15
	Unchahar II TPS	440	404	441	326	9.49	395	9.24	0.25
	Unchahar III TPS	210	202	226	165	4.77	199	4.63	0.14
	ISTPP (Jhajjar)	1000	0	0	0	0.00	0	0.00	0.00
	Dadri GPS	830	841	579	533	14.03	585	14.09	-0.05
	Anta GPS	419	423	297	307	7.53	314	7.35	0.17
	Auraiya GPS	663	645	263	324	6.89	287	6.96	-0.07
	Sub Total (A)	9822	8287	7876	7403	176.38	7349	175.39	0.98
B. NPC	NAPS	440	252	281	278	5.94	247	6.04	-0.10
	RAPS- B	440	426	460	469	10.17	424	10.22	-0.06
	RAPS- C	440	420	469	475	10.20	425	10.08	0.12
	Sub Total (B)	1320	1098	1210	1222	26.31	1096	26.34	-0.04
C. NHPC	Chamera I HPS	540	534	540	0	3.75	156	3.87	-0.12
	Chamera II HPS	300	198	162	0	1.67	70	1.64	0.03
	Bairasuil HPS	180	179	179	0	1.89	79	2.01	-0.12
	Salal-HPS	690	164	227	123	4.00	167	3.95	0.05
	Tanakpur-HPS	94	24	32	16	0.49	20	0.48	0.00
	Uri-HPS	480	345	358	307	8.33	347	8.29	0.04
	Dhauliganga-HPS	280	277	212	0	0.82	34	0.82	0.00
	Dulhasti-HPS	390	0	0	0	0.00	0	0.00	0.00
	Sewa-II HPS	120	119	124	51	2.40	100	2.38	0.02
	Sub Total (C)	3074	1840	1834	497	23.34	972	23.44	-0.10
D. NJPC	Nathpa Jhakri	1500	1333	697	0	6.07	253	5.97	0.10
	Sub Total (D)	1500	1333	697	0	6.07	253	5.97	0.10
E. THDC	Tehri HPS	1000	821	850	0	6.92	288	7.00	-0.08
	Koteshwar HPS	200	150	0	0	2.78	116	2.80	-0.02
	Sub Total (E)	1200	971	850	0	9.69	404	9.80	-0.11
F. BBMB	Bhakra HPS	1480	741	994	416	18.48	770	17.79	0.69
	Dehar HPS	990	145	495	0	3.64	152	3.48	0.16
	Pong HPS	396	203	306	60	4.63	193	4.87	-0.24
	Sub Total (F)	2866	1089	1795	476	26.75	1115	26.14	0.61
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	0	0	0.12	5	0.23	-0.11
	KWHEP HPS(IPP)	1000	0	174	150	3.53	147	3.49	0.04
	Malana Stg-II HPS	100	0	0	0	0.00	0	0.00	0.00
	Shree Cement TPS	150	0	142	145	3.50	146	3.46	0.04
	Sub Total (G)	1442	0	316	295	7.15	298	7.17	-0.03
H. Total Regional Entities (A-G)	21225	14618	14578	9893	275.68	11487	274.25	1.42	

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	22.96	957
	Guru Nanak Dev TPS(Bhatinda)	440	219	219	4.74	197
	Guru Hargobind Singh TPS(L.mbt)	920	968	961	21.54	898
	Thermal (Total)	2620	2232	2225	49.24	2052
	Total Hydro	1148	384	304	12.78	532
Total Punjab	3768	2616	2529	62.02	2584	
Haryana	Panipat TPS	1360	763	769	18.73	781
	DCRTPP (Yamuna nagar)	600	280	278	6.58	274
	Faridabad GPS (NTPC)	432	409	426	10.13	422
	RGTPP (kheldar) (IPP)	1200	571	559	14.00	583
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	660	0	0	0.00	0
	Thermal (Total)	4277	2023	2032	49.44	2060
	Total Hydro	62	23	24	0.61	26
	Total Haryana	4339	2046	2056	50.06	2086
Rajasthan	kota TPS	1240	1100	1164	27.63	1151
	suratgarh TPS	1500	1147	1135	26.98	1124
	Chabra TPS	500	378	437	9.62	401
	Dholpur GPS	330	225	231	5.50	229
	Ramgarh GPS	113	42	43	1.07	44
	RAPS A (NPC)	300	182	185	4.54	189
	Barsingsar (NLC)	250	98	87	2.32	97
	Giral LTPS (IPP)	250	0	0	0.00	0
	Rajwest LTPS (IPP)	540	355	450	9.54	397
	VSLP LTPS (IPP)	135	0	0	0.00	0
	Thermal (Total)	5158	3527	3732	87.20	3633
	Total Hydro	550	172	147	4.69	195
	Wind power	1294	294	100	3.67	153
	Biomass	71	54	54	1.30	54
	Solar	50	0	0	0.00	0
	Renewable/Others (Total)	1365	348	154	9.66	402
	Total Rajasthan	7073	4047	4033	101.55	4231
	UP	Anpara TPS	1630	1504	1493	32.00
Obra TPS		1442	647	641	13.90	579
Paricha TPS		640	242	237	5.20	217
Panki TPS		210	200	185	4.20	175
Harduaganj TPS		415	291	283	6.20	258
Tanda TPS (NTPC)		440	407	403	9.82	409
Roza TPS (IPP)		900	554	545	12.45	519
Anpara-C (IPP)		1200	405	378	2.46	102
Bajaj Energy Pvt.Ltd(IPP) TPS		180	59	122	9.03	376
Thermal (Total)		7057	4309	4287	95.26	3969
Vishnuparyag HPS (IPP)		400	70	64	1.63	68
Other Hydro		527	279	0	6.17	257
Cogeneration		951	600	600	14.40	600
Total UP		8935	5258	4951	117.45	4826
Uttarakhand	Total Hydro	1303	482	254	9.42	392
	Total Uttarakhand	1303	482	254	9.42	392
Delhi	Rajghat TPS	135	97	98	2.38	99
	Delhi Gas Turbine	282	82	83	1.93	81
	Pragati Gas Turbine	330	300	267	7.12	297
	Rithala GPS	108	24	26	0.60	25
	Bawana GPS	440	22	20	1.87	78
	Badarpur TPS (NTPC)	705	575	555	13.44	560
	Thermal (Total)	2000	1100	1210	27.35	1139
	Total Delhi	2000	1100	1210	27.35	1139
HP	Baspa HPS (IPP)	330	42	0	0.95	40
	Malana HPS (IPP)	101	2	0	0.25	10
	Other Hydro	571	186	77	3.37	140
	Total HP	1002	230	77	5	190
J & K	Baglihar HPS (IPP)	450	150	148	3.60	150
	Other Hydro	323	84	89	1.97	82
	Gas/Diesel/Others	183	0	0	0.00	0
	Total J & K	956	234	237	5.57	232
Total State Control Area Generation		29376	16013	15347	377.97	15681
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			2135	3260	86.12	3588
Total Regional Availability(Gross)		50601	32726	28500	739.77	30756

IV. Total Hydro Generation:

Regional Entities Hydro	9933	5350	1123	69.50	2896
State Control Area Hydro	5365	1804	1043	43.80	1825
Total Regional Hydro	15297	7154	2166	113.29	4721

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	400	0	400	0	6.67	0.00	6.67
Gwalior-Agra (D/C)	533	1105	1453	0	24.37	0.00	24.37
Zerda-Kankroli	-46	94	249	46	2.47	0.00	2.47
Zerda-Bhinmal	22	206	408	28	4.80	0.00	4.80
Malanpur-Auraiya	-44	13	0	109	0.00	0.01	-0.01
Badod-Kota/Morak	59	22	66	17	1.13	0.00	1.13
Sub Total WR	924	1440			39.44	0.01	39.44
Pusauli Bypass	-63	57	229	110	2.40	0.30	2.10
MZP- GKP (D/C)	330	453	762	0	12.34	0.00	12.34
Patna-Balia(D/C)	317	556	678	0	11.83	0.00	11.83
B'Sharif-Balia (D/C)	227	312	703	0	10.22	0.00	10.22
Barh - balia(D/C)	320	339	478	0	8.30	0.00	8.30
Pusauli-Sahupuri	110	135	174	0	2.70	0.00	2.70
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-30	-32	0	48	0.00	0.81	-0.81
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sub Total ER	1211	1820			47.79	1.10	46.69
Total IR Exch	2135	3260			87.23	1.11	86.12

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
27.55	0.21	27.76	5.86	9.97	5.07	1.74	2.01	-2.01

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
40.70	7.20	47.90	46.69	39.44	86.12	5.99	32.24	38.22

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	3.20	19.80	94.60	78.00	21.70	2.20

<----- 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					
50.35	17.05	49.27	23.06	49.86	0.52	0.18	50.34	49.58

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	406	03:05	393	11:05	0.0	0.0	0.0	0.0
Gorakhpur	400	435	18:04	400	06:12	0.0	0.0	41.7	1.6
Bareilly	400	418	03:52	387	10:57	0.0	1.0	0.0	0.0
Kanpur	400	414	03:51	386	10:57	0.0	2.4	0.0	0.0
Dadri	400	419	03:04	391	10:57	0.0	0.0	0.0	0.0
Ballabgarh	400	423	03:51	390	11:01	0.0	0.0	6.1	0.0
Bawana	400	423	03:03	390	11:00	0.0	0.0	7.0	0.0
Bassi	400	420	20:58	389	11:04	0.0	0.2	0.0	0.0
Hissar	400	414	03:57	387	10:58	0.0	2.4	0.0	0.0
Moga	400	428	03:58	399	10:50	0.0	0.0	16.0	0.0
Abdullapur	400	424	03:03	246	11:03	0.1	0.4	11.2	0.0
Nalagarh	400	429	03:59	405	09:28	0.0	0.0	29.2	0.0
Kishenpur	400	424	03:51	399	18:59	0.0	0.0	8.0	0.0
Wagoora	400	408	04:00	378	19:06	6.2	30.8	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	487.82	661.49	494.00	869.36	141.27	552.69
Pong	426.72	384.05	408.24	435.19	411.66	555.85	83.48	330.77
Tehri	829.79	740.04	784.55	371.55	818.65	982.26	51.26	184.00
Koteshwar	612.50	598.50	608.60	3.98	NA	NA	211.00	189.00
Chamera-I	760.00	748.75	754.48	3.87	754.13	3.23	94.51	100.87
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 28.02.2012 :

1. Normal Weather.

XII. Synchronisation of new generating units :

XIII. Synchronisation of new 220 / 400 / 765 KV lines and energising of bus //substation :

1. 400KV Abdulapur -Panchkula Ckt-2 synchronised at 16:52 hrs On 28.02.2012.
2. 400KV Abdulapur -Panchkula Ckt-1 synchronised at 00:23 hrs On 29.02.2012.
3. 400KV NJPC -Panchkula Ckt-2 synchronised at 23.:34 hrs On 28.02.2012.
4. 400KV NJPC -Panchkula Ckt-1 synchronised at 23.:51 hrs on 28.02.2012.
- 5.315MVA ICT-1 synchronised at 01:10 hrs on 29.02.2012.

XIV. Tripping of lines in pooling stations :

XV. Complete generation loss in a generating station :

Report for : 28.02.2012

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER