

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 29.02.2012
Date of Reporting : 01.03.2012

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
30219	2508	32727	49.88	27579	350	27929	50.08	715.2	44.65

* 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	49.48	13.00		62.49	41.52	42.87	1.34	105.35	1.80
Haryana	45.17	0.55		45.72	25.54	45.77	20.23	91.49	12.27
Rajasthan	86.74	5.57	14.00	106.30	52.17	59.51	7.34	165.80	0.59
Delhi	28.95			28.95	42.63	28.40	-14.24	57.35	0.00
UP	95.00	7.62	14.40	117.02	83.81	90.77	6.96	207.79	25.41
Uttarakhand		9.28		9.28	16.04	17.82	1.79	27.11	2.29
HP		4.73		4.73	19.16	19.20	0.04	23.93	0.00
J & K		5.67	0.00	5.67	27.56	27.23	-0.32	32.90	2.30
Chandigarh				0.00	3.69	3.44	-0.26	3.44	0.00
Total	305.34	46.43	28.40	380.16	312.11	335.00	22.88	715.16	44.65

* 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	4732	150	119	-261	4044	0	37	-381	-6.04
Haryana	4006	618	1263	-140	3618	0	599	-140	-3.37
Rajasthan	6124	0	-254	105	6903	0	1259	155	6.50
Delhi	2948	0	-474	-126	1334	0	-316	-417	-5.43
UP	8700	1290	-23	265	8513	350	213	265	6.36
Uttarakhand	1067	300	-214	241	987	0	190	241	5.78
HP	961	0	-349	179	778	0	93	279	6.20
J&K	1500	150	-89	243	1317	0	29	253	5.58
Chandigarh	182	0	-26	0	85	0	-3	-41	-0.33
Total	30219	2508	-47	506	27579	350	2100	214	15.24

* 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	1855	1891	2104	44.73	1864	44.53		0.20	
	Rihand I STPS	1000	911	976	905	21.64	902	21.50		0.14	
	Rihand II STPS	1000	975	1048	983	23.50	979	22.91		0.59	
	Dadri I STPS	840	800	626	635	15.44	643	15.28		0.16	
	Dadri II STPS	980	972	986	758	21.71	905	21.92		-0.20	
	Unchahar I TPS	440	406	437	414	9.68	403	9.63		0.05	
	Unchahar II TPS	440	404	440	390	9.69	404	9.47		0.22	
	Unchahar III TPS	210	202	219	187	4.84	202	4.71		0.13	
	ISTPP (Jhajjar)	1000	0	0	0	0.00	0	0.00		0.00	
	Dadri GPS	830	841	600	603	14.61	609	14.73		-0.12	
	Anta GPS	419	424	284	299	7.72	322	7.52		0.20	
	Auraiya GPS	663	644	278	324	7.38	307	7.37		0.00	
	Sub Total (A)	9822	8434	7785	7602	180.93	7539	179.55		1.37	
B. NPC	NAPS	440	274	297	292	6.20	258	6.58		-0.38	
	RAPS- B	440	422	465	471	10.11	421	10.13		-0.02	
	RAPS- C	440	420	477	477	10.21	425	10.08		0.13	
	Sub Total (B)	1320	1116	1239	1240	26.52	1105	26.79		-0.27	
C. NHPC	Chamera I HPS	540	534	540	0	3.86	161	3.89		-0.03	
	Chamera II HPS	300	198	200	0	1.55	64	1.52		0.03	
	Bairasuil HPS	180	179	179	0	1.78	74	1.87		-0.09	
	Salal-HPS	690	150	225	125	4.15	173	4.08		0.07	
	Tanakpur-HPS	94	26	29	16	0.46	19	0.47		-0.01	
	Uri-HPS	480	353	399	357	8.71	363	8.17		0.54	
	Dhauliganga-HPS	280	277	238	0	0.76	32	0.78		-0.02	
	Dulhasti-HPS	390	0	0	0	0.00	0	0.00		0.00	
	Sewa-II HPS	120	119	122	65	2.52	105	2.35		0.17	
	Sub Total (C)	3074	1836	1932	563	23.79	991	23.12		0.67	
D. NJPC	Nathpa Jhakri	1500	1333	1607	0	7.92	330	7.12		0.80	
	Sub Total (D)	1500	1333	1607	0	7.92	330	7.12		0.80	
E. THDC	Tehri HPS	1000	850	849	0	8.04	335	8.00		0.04	
	Koteshwar HPS	200	182	202	0	2.96	123	2.90		0.06	
	Sub Total (E)	1200	1032	1051	0	11.00	458	10.90		0.10	
F. BBMB	Bhakra HPS	1480	759	994	415	18.93	789	18.21		0.72	
	Dehar HPS	990	154	495	0	3.93	164	3.70		0.24	
	Pong HPS	396	207	306	66	5.29	220	4.97		0.32	
	Sub Total (F)	2866	1120	1795	481	28.15	1173	26.88		1.27	
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	0	0	0.42	17	0.40		0.01	
	KWHEP HPS(IPP)	1000	0	300	0	3.98	166	3.72		0.26	
	Malana Stg-II HPS	100	0	0	0	0.00	0	0.00		0.00	
	Shree Cement TPS	150	0	146	145	3.44	143	3.46		-0.02	
	Sub Total (G)	1442	0	446	145	7.84	326	7.58		0.26	
H. Total Regional Entities (A-G)	21225	14871	15855	10031	286.14	11922	281.93		4.21		

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	23.18	966
	Guru Nanak Dev TPS(Bhatinda)	440	219	219	4.75	198
	Guru Hargobind Singh TPS(L.mbt)	920	960	974	21.55	898
	Thermal (Total)	2620	2224	2238	49.48	2062
	Total Hydro	1148	394	318	13.00	542
	Total Punjab	3768	2618	2556	62.49	2604
Haryana	Panipat TPS	1360	678	849	18.32	763
	DCRTPP (Yamuna nagar)	600	278	281	6.59	274
	Faridabad GPS (NTPC)	432	408	427	10.25	427
	RGTPP (kheldar) (IPP)	1200	0	569	10.02	417
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	660	0	0	0.00	0
	Thermal (Total)	4277	1364	2126	45.17	1882
	Total Hydro	62	18	22	0.55	23
	Total Haryana	4339	1382	2148	45.72	1905
Rajasthan	kota TPS	1240	1162	1142	27.59	1149
	suratgarh TPS	1500	1010	1145	26.39	1100
	Chabra TPS	500	436	437	10.67	444
	Dholpur GPS	330	230	225	5.52	230
	Ramgarh GPS	113	40	43	1.04	43
	RAPS A (NPC)	300	186	184	4.53	189
	Barsingsar (NLC)	250	105	98	2.47	103
	Giral LTPS (IPP)	250	0	0	0.00	0
	Rajwest LTPS (IPP)	540	355	355	8.53	355
	VSLP LTPS (IPP)	135	0	0	0.00	0
	Thermal (Total)	5158	3524	3629	86.74	3614
	Total Hydro	550	255	147	5.57	232
	Wind power	1294	346	34	7.57	316
	Biomass	71	53	53	0.86	36
	Solar	50	0	0	0.00	0
	Renewable/Others (Total)	1365	399	87	14.00	583
	Total Rajasthan	7073	4178	3863	106.30	4429
UP	Anpara TPS	1630	1495	1511	32.20	1342
	Obra TPS	1442	645	648	13.90	579
	Paricha TPS	640	221	239	5.00	208
	Panki TPS	210	165	170	2.80	117
	Harduaganj TPS	415	274	305	5.30	221
	Tanda TPS (NTPC)	440	402	396	9.82	409
	Roza TPS (IPP)	900	549	549	12.83	535
	Anpara-C (IPP)	1200	459	396	10.34	431
	Bajaj Energy Pvt.Ltd(IPP) TPS	180	105	149	2.81	117
	Thermal (Total)	7057	4315	4363	95.00	3958
	Vishnuparyag HPS (IPP)	400	70	69	1.61	67
	Other Hydro	527	279	0	6.01	251
	Cogeneration	951	600	600	14.40	600
	Total UP	8935	5264	5032	117.02	4809
Uttarakhand	Total Hydro	1303	575	251	9.28	387
	Total Uttarakhand	1303	575	251	9.28	387
Delhi	Rajghat TPS	135	106	103	2.79	116
	Delhi Gas Turbine	282	82	83	1.99	83
	Pragati Gas Turbine	330	303	265	7.31	305
	Rithala GPS	108	25	27	0.59	25
	Bawana GPS	440	129	30	2.93	122
	Badarpur TPS (NTPC)	705	580	565	13.33	555
	Thermal (Total)	2000	1225	1088	28.95	1206
	Total Delhi	2000	1225	1088	28.95	1206
HP	Baspa HPS (IPP)	330	35	0	0.96	40
	Malana HPS (IPP)	101	0	0	0.23	10
	Other Hydro	571	168	90	3.54	147
	Total HP	1002	203	90	5	197
J & K	Baglihar HPS (IPP)	450	150	148	3.70	154
	Other Hydro	323	84	89	1.97	82
	Gas/Diesel/Others	183	0	0	0.00	0
	Total J & K	956	234	237	5.67	236
Total State Control Area Generation		29376	15679	15265	380.16	15773
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			1472	2639	67.76	2823
Total Regional Availability(Gross)		50601	33006	27935	734.06	30519

IV. Total Hydro Generation:

Regional Entities Hydro	9933	6685	1044	75.26	3136
State Control Area Hydro	5365	1958	1065	44.81	1867
Total Regional Hydro	15297	8643	2109	120.07	5003

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	300	300	0	2.55	0.00	2.55
Gwalior-Agra (D/C)	244	771	1104	0	18.55	0.00	18.55
Zerda-Kankroli	-100	43	130	155	0.01	0.00	0.01
Zerda-Bhinmal	-59	146	324	186	1.67	0.00	1.67
Malanpur-Auraiya	-44	13	0	109	0.00	0.01	-0.01
Badod-Kota/Morak	19	28	50	0	0.61	0.00	0.61
Sub Total WR	260	1301			23.39	0.01	23.38
Pusauli Bypass	-21	94	237	62	2.21	0.23	1.99
MZP- GKP (D/C)	306	26	584	0	10.88	0.00	10.88
Patna-Balia(D/C)	315	391	496	0	9.33	0.00	9.33
B'Sharif-Balia (D/C)	212	329	822	0	10.56	0.00	10.56
Barh - balia(D/C)	314	391	496	0	9.64	0.00	9.64
Pusauli-Sahupuri	116	139	191	0	2.79	0.00	2.79
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	1212	1338			45.41	1.03	44.38
Total IR Exch	1472	2639			68.79	1.04	67.76

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
28.09	0.23	28.32	6.27	3.94	0.66	1.58	1.95	-1.95

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
37.20	1.07	38.28	44.38	23.38	67.76	7.17	22.31	29.48

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	27.40	98.40	71.90	13.70	0.70

<----- 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					
50.39	18.03	49.41	6.43	49.81	0.60	0.16	50.16	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	403	07:20	397	00:00	0.0	0.0	0.0	0.0
Gorakhpur	400	427	18:06	405	06:41	0.0	0.0	17.4	0.0
Bareilly	400	419	05:06	398	10:20	0.0	0.0	0.0	0.0
Kanpur	400	415	05:04	396	10:18	0.0	0.0	0.0	0.0
Dadri	400	418	05:04	397	10:47	0.0	0.0	0.0	0.0
Ballabgarh	400	424	05:04	399	10:45	0.0	0.0	3.8	0.0
Bawana	400	423	05:04	398	10:51	0.0	0.0	3.9	0.0
Bassi	400	424	05:04	394	10:09	0.0	0.0	0.7	0.0
Hissar	400	416	05:04	390	10:48	0.0	0.0	0.0	0.0
Moga	400	429	05:04	399	10:48	0.0	0.0	13.1	0.0
Abdullapur	400	425	05:04	398	10:48	0.0	0.0	16.1	0.0
Nalagarh	400	427	05:04	404	11:11	0.0	0.0	27.6	0.0
Kishenpur	400	423	05:04	398	10:42	0.0	0.0	0.9	0.0
Wagoora	400	403	05:04	377	22:04	2.3	52.7	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 29.02.2012 :

1. Normal Weather.

XII. Synchronisation of new generating units :

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

1. 315MVA ICT-2 at Panhkula synchronised at 18:44 hrs on 29.02.2012.

2. 125MVAR Bus reactor at Panhkula charged at 18.57 hrs / 29.02.2012.

3. 765KV Lucknow - Balia line charged at 13.36 hrs/29.02.2012 ,(this was charged also 19.02 to 19.12 /28.02.2012)

XIV. Tripping of lines in pooling stations :

XV. Complete generation loss in a generating station :

Report for : 29.02.2012

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER