

पावर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)

उत्तरी क्षेत्रीय भार प्रेषण केंद्र



Power Supply Position in Northern Region for 24.01.2012
Date of Reporting : 25.01.2012

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
33087	2964	36051	49.84	25094	650	25744	50.15	718.1	45.67

* 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:

UI [OD:(+ve), UD: (-ve)]

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	48.00	10.99		58.99	32.16	32.44	0.28	91.43	2.10
Haryana	64.35	0.56		64.92	24.10	31.56	7.46	96.48	7.64
Rajasthan	91.86	11.25	16.73	119.84	51.14	52.07	0.93	171.91	2.85
Delhi	27.34			27.34	41.89	37.42	-4.47	64.76	0.12
UP	88.00	6.53	15.60	110.13	86.08	91.80	5.72	201.93	31.07
Uttarakhand		8.78		8.78	18.68	22.00	3.32	30.78	0.00
HP		3.36		3.36	20.76	18.61	-2.15	21.97	0.00
J & K		4.96	0.00	4.96	25.26	30.19	4.94	35.16	1.90
Chandigarh				0.00	3.57	3.72	0.14	3.72	0.00
Total	319.55	46.44	32.33	398.32	303.64	319.82	16.17	718.13	45.67

* Shortage furnished by the respective constituent.\$ Others include UP Co-generation and JK Diesel

II. B. State's Demand Met in MWs:

UI/OA/PX [OD/Import: (+ve), UD/Export: (-ve)]

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	STOA/PX transaction
Punjab	4570	600	28	-333	3053	0	92	-481	-7.41
Haryana	4744	602	790	-201	3105	0	-233	-201	-4.48
Rajasthan	7140	70	392	160	6411	0	-406	285	8.28
Delhi	3363	2	-125	-25	1469	0	-102	-340	-3.13
UP	9033	1590	-42	265	7764	650	83	265	6.36
Uttarakhand	1554	0	29	450	1076	0	147	450	10.80
HP	1103	0	-464	-38	727	0	-10	405	6.30
J&K	1368	100	-282	300	1390	0	289	296	6.59
Chandigarh	212	0	1	0	99	0	4	-30	-0.24
Total	33087	2964	328	578	25094	650	-136	648	23.07

* STOA figures are at sellers boundary & PX figures are at regional boundary.

III. Regional Entities :

UI [OG:(+ve), UG: (-ve)]

A. NTPC	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
		Singrauli STPS	2000	1760	1891	1683	41.67	1736	41.47
	Rihand I STPS	1000	829	914	779	19.72	822	19.30	0.42
	Rihand II STPS	1000	977	1043	902	23.14	964	22.80	0.33
	Dadri I STPS	840	611	648	462	18.91	788	13.83	5.07
	Dadri II STPS	980	973	1040	820	22.73	947	23.32	-0.59
	Unchahar I TPS	440	383	437	325	9.01	375	8.89	0.11
	Unchahar II TPS	440	383	441	305	9.05	377	8.64	0.42
	Unchahar III TPS	210	192	220	148	4.54	189	4.37	0.17
	ISTPP (Jhajjar)	1000	475	503	471	10.64	443	10.74	-0.10
	Dadri GPS	830	846	697	556	16.01	667	16.12	-0.12
	Anta GPS	419	426	323	269	7.85	327	7.67	0.18
	Auraiya GPS	663	662	467	410	10.75	448	10.74	0.01
	Sub Total (A)	9822	8515	8624	7130	194.00	8083	187.88	6.11
B. NPC	NAPS	440	128	147	149	3.03	126	3.07	-0.05
	RAPS- B	440	406	446	442	9.67	403	9.74	-0.07
	RAPS- C	440	420	465	474	10.11	421	10.08	0.03
	Sub Total (B)	1320	954	1058	1065	22.81	950	22.90	-0.09
C. NHPC	Chamera I HPS	540	356	360	0	3.01	125	3.10	-0.09
	Chamera II HPS	300	297	74	0	1.10	46	1.12	-0.01
	Bairasuil HPS	180	179	100	0	0.50	21	0.51	-0.01
	Salal-HPS	690	122	307	25	2.92	122	2.64	0.28
	Tanakpur-HPS	94	29	31	23	0.63	26	0.64	-0.01
	Uri-HPS	480	129	210	45	2.98	124	3.09	-0.11
	Dhauliganga-HPS	280	210	137	0	0.90	38	0.92	-0.02
	Dulhasti-HPS	390	388	369	0	2.43	101	2.19	0.24
	Sewa-II HPS	120	119	72	0	0.62	26	0.61	0.02
	Sub Total (C)	3074	1828	1660	93	15.11	629	14.83	0.28
D.NJPC	Nathpa Jhakri	1500	1133	1360	0	6.52	272	6.37	0.15
	Sub Total (D)	1500	1133	1360	0	6.52	272	6.37	0.15
E. THDC	Tehri HPS	1000	980	978	0	8.68	362	8.75	-0.07
	Koteshwar HPS	200	119	203	0	2.86	119	2.80	0.06
	Sub Total (E)	1200	1099	1181	0	11.54	481	11.55	-0.01
F. BBMB	Bhakra HPS	1480	697	944	572	17.11	713	16.73	0.38
	Dehar HPS	990	124	495	0	3.08	128	2.99	0.10
	Pong HPS	396	149	306	0	4.25	177	3.57	0.68
	Sub Total (F)	2866	970	1745	572	24.44	1018	23.28	1.15
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	0	0	0.34	14	0.31	0.02
	KWHEP HPS(IPP)	1000	0	483	0	3.64	151	3.60	0.04
	Malana Stg-II HPS	100	0	0	0	0.00	0	0.00	0.00
	Shree Cement TPS	150	0	145	143	3.46	144	3.44	0.03
	Sub Total (G)	1442	0	628	143	7.43	310	7.35	0.08
H. Total Regional Entities (A-G)		21225	14499	16256	9003	281.84	11743	274.16	7.68

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	915	22.34	931
	Guru Nanak Dev TPS(Bhatinda)	440	218	248	4.74	197
	Guru Hargobind Singh TPS(L.mbt)	920	965	841	20.93	872
	Thermal (Total)	2620	2223	2004	48.00	2000
	Total Hydro	1148	556	215	10.99	458
	Total Punjab	3768	2779	2219	58.99	2458
Haryana	Panipat TPS	1360	1044	1027	25.18	1049
	DCRTPP (Yamuna nagar)	600	280	280	6.48	270
	Faridabad GPS (NTPC)	432	209	215	5.53	231
	RGTPP (kheadar) (IPP)	1200	1047	1026	27.16	1132
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	660	0	0	0.00	0
	Thermal (Total)	4277	2580	2548	64.35	2681
	Total Hydro	62	22	15	0.56	23
Total Haryana	4339	2602	2563	64.92	2705	
Rajasthan	kota TPS	1240	1176	1171	27.83	1160
	suratgarh TPS	1500	1148	1145	27.24	1135
	Chabra TPS	500	369	405	8.74	364
	Dholpur GPS	330	230	245	5.45	227
	Ramgarh GPS	113	42	43	1.13	47
	RAPS A (NPC)	300	191	193	4.72	197
	Barsingsar (NLC)	250	156	168	4.71	196
	Giral LTPS (IPP)	250	105	105	1.25	52
	Rajwest LTPS (IPP)	540	450	455	10.78	449
	VSLP LTPS (IPP)	135	0	0	0.00	0
	Thermal (Total)	5158	3867	3930	91.86	3828
	Total Hydro	550	282	209	11.25	469
	Wind power	1294	118	815	4.37	182
	Biomass	71	46	46	1.11	46
	Solar	50	0	0	0.00	0
	Renewable/Others (Total)	1365	164	861	16.73	697
	Total Rajasthan	7073	4313	5000	119.84	4993
UP	Anpara TPS	1630	1305	1139	27.60	1150
	Obra TPS	1442	542	559	13.30	554
	Paricha TPS	640	233	198	4.80	200
	Panki TPS	210	185	185	4.30	179
	Harduaganj TPS	415	266	265	6.20	258
	Tanda TPS (NTPC)	440	409	310	9.44	393
	Roza TPS (IPP)	900	450	396	10.50	438
	Anpara-C (IPP)	1200	289	495	8.96	373
	Bajaj Energy Pvt.Ltd(IPP) TPS	180	122	122	2.90	121
	Thermal (Total)	7057	3801	3669	88.00	3667
	Vishnuparyag HPS (IPP)	400	74	74	1.84	77
	Other Hydro	527	270	0	4.69	195
	Cogeneration	951	650	650	15.60	650
	Total UP	8935	4795	4393	110.13	4512
Uttarakhand	Total Hydro	1303	518	292	8.78	366
	Total Uttarakhand	1303	518	292	8.78	366
Delhi	Rajghat TPS	135	57	56	1.29	54
	Delhi Gas Turbine	282	239	155	4.18	174
	Pragati Gas Turbine	330	312	262	7.28	303
	Rithala GPS	108	19	33	0.38	16
	Bawana GPS	440	0	0	0.00	0
	Badarpur TPS (NTPC)	705	695	555	14.22	592
	Thermal (Total)	2000	1322	1061	27.34	1139
	Total Delhi	2000	1322	1061	27.34	1139
HP	Baspa HPS (IPP)	330	0	0	1.11	46
	Malana HPS (IPP)	101	0	0	0.21	9
	Other Hydro	571	170	62	2.04	85
	Total HP	1002	170	62	3	140
J & K	Baglihar HPS (IPP)	450	150	148	3.59	150
	Other Hydro	323	27	125	1.38	57
	Gas/Diesel/Others	183	0	0	0.00	0
	Total J & K	956	177	273	4.96	207
Total State Control Area Generation		29376	16676	15863	398.32	16520
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			825	1325	49.80	2075
Total Regional Availability(Gross)		50601	33757	26191	729.96	30338

IV. Total Hydro Generation:

Regional Entities Hydro	10083	6574	808	65.04	2710
State Control Area Hydro	5365	1995	1066	44.60	1858
Total Regional Hydro	15447	8569	1874	109.63	4568

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	-350	0	350	0.00	5.37	-5.37
Gwalior-Agra (D/C)	207	864	1167	0	18.59	0.00	18.59
Zerda-Kankroli	-165	-130	93	165	0.00	1.39	-1.39
Zerda-Bhinmal	-97	-81	249	123	0.25	0.00	0.25
Malanpur-Auraiya	-177	-53	0	177	0.00	1.55	-1.55
Badod-Kota/Morak	-35	-90	23	111	0.00	1.30	-1.30
Sub Total WR	-367	160			18.84	9.61	9.23
Pusauli Bypass	-117	72	229	117	1.63	0.29	1.34
MZP- GKP (D/C)	394	400	736	0	13.12	0.00	13.12
Patna-Balia(D/C)	223	147	484	0	7.02	0.00	7.02
B'Sharif-Balia (D/C)	266	275	529	0	8.62	0.00	8.62
Barh - balia(D/C)	251	221	420	0	7.60	0.00	7.60
Pusauli-Sahupuri	205	82	211	0	3.55	0.00	3.55
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-30	-32	0	48	0.00	0.67	-0.67
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sub Total ER	1192	1165			41.53	0.96	40.57
Total IR Exch	825	1325			60.37	10.57	49.80

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
26.63	0.25	26.88	8.61	14.13	-0.91	9.00	1.99	-1.99

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
36.57	12.59	49.15	40.57	9.23	49.80	4.01	-3.36	0.65

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	0.10	7.90	36.80	91.50	62.60	13.90	0.60

<----- Frequency (Hz) ----->				Average Frequency	Frequency Variation Index	Std. Dev.	Frequency in 15 Min Block	
Maximum		Minimum					MAX (Hz)	MIN (Hz)
Freq	Time	Freq	Time	Hz				
50.41	18.02	49.20	10.14	49.77	0.90	0.19	50.18	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	409	03:18	396	06:24	0.0	0.0	0.0	0.0
Gorakhpur	400	432	02:21	404	06:24	0.0	0.0	65.2	4.5
Bareilly	400	424	02:26	396	06:43	0.0	0.0	16.5	0.0
Kanpur	400	419	02:34	396	06:24	0.0	0.0	0.0	0.0
Dadri	400	419	03:09	398	10:00	0.0	0.0	0.0	0.0
Ballabgarh	400	424	03:09	400	11:04	0.0	0.0	17.0	0.0
Bawana	400	424	03:09	400	11:06	0.0	0.0	17.4	0.0
Bassi	400	421	21:46	390	11:04	0.0	0.0	0.2	0.0
Hissar	400	414	03:11	396	06:26	0.0	0.0	0.0	0.0
Moga	400	425	03:32	406	11:05	0.0	0.0	21.3	0.0
Abdullapur	400	421	03:11	290	17:57	0.1	0.1	0.1	0.0
Nalagarh	400	427	03:09	408	11:10	0.0	0.0	30.9	0.0
Kishenpur	400	423	03:38	394	16:40	0.0	0.0	3.2	0.0
Wagoora	400	406	03:38	372	16:40	27.2	60.4	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 (m ³ /s)	Usage (m ³ /s)
Bhakra	513.59	445.62	497.76	1006.54	500.62	1114.30	183.92	494.27
Pong	426.72	384.05	412.02	566.84	415.34	693.24	65.13	235.31
Tehri	829.79	740.04	800.90	627.36	818.65	982.26	68.08	211.00
Koteshwar	612.50	598.50	607.66	3.98	NA	NA	211.00	190.00
Chamera-I	760.00	748.75	754.31	NA	NA	1.20	55.32	NA
Rihand	268.22	252.98	263.07	484.00	256.70	145.10	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	505.27	NA	508.65	NA	79.57	222.85

* NA: Not Available

IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

XI. Weather Conditions For 24.01.2012 :

Normal wether.

XII. Synchronisation of new generating units :

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

1: Power flow start on 765kV Anpara-Unnao s/c line (first time) at 14.53 hrs.

XIV. Tripping of lines in pooling stations :

XV. Complete generation loss in a generating station :

Report for : 24.01.2012

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER