

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 26.03.2012
Date of Reporting : 27.03.2012

I. Regional Availability/Demand:

Demand Met	Evening Peak (19:00 Hrs) MW			Demand Met	Off Peak (03:00 Hrs) MW			Day Energy (Net MU)	
	Shortage	Requirement	Freq* (Hz)		Shortage	Requirement	Freq* (Hz)	Demand Met	Shortage
31630	1565	33195	49.80	28211	650	28861	50.00	690.5	28.96

* 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	48.99	14.03		63.02	42.06	39.49	-2.57	102.51	2.20
Haryana	51.87	0.82		52.69	27.59	31.82	4.23	84.51	1.62
Rajasthan	81.60	0.00	6.08	87.68	47.81	68.03	20.21	155.71	1.51
Delhi	24.49			24.49	48.91	36.23	-12.67	60.72	0.16
UP	87.39	5.40	14.40	107.20	94.04	95.05	1.01	202.25	20.15
Uttarakhand		11.60		11.60	14.47	17.53	3.07	29.13	1.02
HP		9.75		9.75	17.58	13.47	-4.11	23.22	0.00
J & K		11.17	0.00	11.17	19.95	17.76	-2.18	28.93	2.30
Chandigarh				0.00	3.91	3.53	-0.38	3.53	0.00
Total	294.34	52.77	20.48	367.59	316.30	322.92	6.61	690.51	28.96

* 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	5427	600	42	-225	5736	0	-114	-149	-3.87
Haryana	4161	0	837	-153	2769	0	-335	-153	-4.14
Rajasthan	5794	0	491	-19	6840	0	1295	6	0.02
Delhi	3050	0	-187	-93	1614	0	-641	-60	-0.02
UP	9297	815	-983	1190	8377	650	364	243	8.85
Uttarakhand	1454	0	283	150	1051	0	124	150	3.60
HP	941	0	-66	-97	721	0	-45	146	-1.22
J&K	1312	150	19	-277	1004	0	-169	-177	-4.75
Chandigarh	194	0	-11	0	98	0	-12	0	0.00
Total	31630	1565	425	-424	28211	650	468	7	-1.54

* 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 Net MU	UI Net MU
A. NTPC	Singrauli STPS	2000	1712	1807	1897	41.08	1712	41.09	-0.01
	Rihand I STPS	1000	920	996	1000	22.20	925	22.08	0.12
	Rihand II STPS	1000	971	1044	1049	23.54	981	23.30	0.24
	Dadri I STPS	840	803	695	655	16.59	691	15.29	1.30
	Dadri II STPS	980	973	1009	804	21.89	912	21.71	0.18
	Unchahar I TPS	440	406	442	440	9.60	400	9.20	0.40
	Unchahar II TPS	440	404	441	443	9.64	402	8.75	0.89
	Unchahar III TPS	210	202	219	217	4.76	198	4.53	0.23
	ISTPP (Jhajjar)	1000	0	0	0	0.00	0	0.00	0.00
	Dadri GPS	830	819	777	597	15.72	655	15.31	0.40
	Anta GPS	419	388	370	273	7.18	299	7.41	-0.23
	Auraiya GPS	663	480	308	323	7.29	304	7.10	0.18
	Sub Total (A)	9822	8078	8108	7698	179.48	7478	175.77	3.71
B. NPC	NAPS	440	270	302	311	6.52	271	6.48	0.04
	RAPS- B	440	417	458	461	9.95	415	10.01	-0.05
	RAPS- C	440	420	467	475	10.13	422	10.08	0.05
	Sub Total (B)	1320	1107	1227	1247	26.60	1108	26.57	0.03
C. NHPC	Chamera I HPS	540	534	540	0	7.01	292	7.10	-0.09
	Chamera II HPS	300	297	188	0	3.32	138	2.90	0.42
	Bairasuil HPS	180	179	179	120	3.37	140	3.25	0.12
	Salal-HPS	690	334	420	258	7.66	319	8.05	-0.40
	Tanakpur-HPS	94	25	31	20	0.60	25	0.59	0.01
	Uri-HPS	480	476	478	480	11.60	484	11.59	0.01
	Dhauliganga-HPS	280	210	195	0	1.57	65	1.50	0.07
	Dulhasti-HPS	390	388	414	0	4.39	183	4.15	0.24
	Sewa-II HPS	120	119	123	109	2.87	119	2.83	0.03
	Sub Total (C)	3074	2561	2568	987	42.38	1766	41.97	0.42
D. NJPC	Nathpa Jhakri	1500	1200	1533	0	10.72	447	10.16	0.56
	Sub Total (D)	1500	1200	1533	0	10.72	447	10.16	0.56
E. THDC	Tehri HPS	1000	745	748	0	6.56	273	6.50	0.06
	Koteshwar HPS	300	300	300	0	2.95	123	2.40	0.55
	Sub Total (E)	1300	1045	1048	0	9.51	396	8.90	0.61
F. BBMB	Bhakra HPS	1480	719	1088	413	17.59	733	17.25	0.35
	Dehar HPS	990	330	495	280	8.57	357	7.93	0.64
	Pong HPS	396	225	306	126	5.70	238	5.40	0.30
	Sub Total (F)	2866	1274	1889	819	31.86	1328	30.57	1.29
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	97	0	0.94	39	1.04	-0.10
	KWHEP HPS(IPP)	1000	0	591	0	6.11	255	5.51	0.60
	Malana Stg-II HPS	100	0	0	0	0.00	0	0.00	0.00
	Shree Cement TPS	300	0	179	130	3.21	134	2.66	0.55
	Sub Total (G)	1592	0	867	130	10.26	427	9.21	1.05
H. Total Regional Entities (A-G)	21475	15264	17240	10881	310.81	12951	303.14	7.67	

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	1040	23.01	959
	Guru Nanak Dev TPS(Bhatinda)	440	219	220	4.60	192
	Guru Hargobind Singh TPS(L.mbt)	920	963	964	21.38	891
	Thermal (Total)	2620	2222	2224	48.99	2041
	Total Hydro	1148	640	381	14.03	585
	Total Punjab	3768	2862	2605	63.02	2626
Haryana	Panipat TPS	1360	889	1008	23.83	993
	DCRTPP (Yamuna nagar)	600	276	281	6.59	275
	Faridabad GPS (NTPC)	432	397	324	9.32	389
	RGTPP (kheldar) (IPP)	1200	504	502	12.12	505
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	660	0	0	0.00	0
	Thermal (Total)	4277	2066	2115	51.87	2161
	Total Hydro	62	39	31	0.82	34
	Total Haryana	4339	2105	2146	52.69	2195
	Rajasthan	kota TPS	1240	1168	1173	27.77
suratgarh TPS		1500	907	911	21.34	889
Chabra TPS		500	194	189	4.54	189
Dholpur GPS		330	152	152	3.60	150
Ramgarh GPS		113	61	63	1.55	64
RAPS A (NPC)		300	183	185	4.50	188
Barsingsar (NLC)		250	212	192	5.36	223
Giral LTPS (IPP)		250	155	132	3.04	127
Rajwest LTPS (IPP)		540	388	356	9.89	412
VSLP LTPS (IPP)		135	0	0	0.00	0
Thermal (Total)		5158	3420	3353	81.60	3400
Total Hydro		550	0	0	0.00	0
Wind power		1294	115	385	4.64	193
Biomass		71	60	60	1.45	60
Solar		50	0	0	0.00	0
Renewable/Others (Total)		1365	175	445	6.08	253
Total Rajasthan		7073	3595	3798	87.68	3653
UP		Anpara TPS	1630	1506	1573	33.40
	Obra TPS	1442	524	446	10.00	417
	Paricha TPS	640	165	178	3.90	163
	Panki TPS	210	90	150	1.20	50
	Harduaganj TPS	415	42	73	0.90	38
	Tanda TPS (NTPC)	440	398	402	9.77	407
	Roza TPS (IPP)	900	562	554	13.16	548
	Anpara-C (IPP)	1200	493	336	9.00	375
	Bajaj Energy Pvt.Ltd(IPP) TPS	180	291	261	6.06	253
	Thermal (Total)	7057	4071	3973	87.39	3641
	Vishnuparyag HPS (IPP)	400	89	94	2.14	89
	Other Hydro	527	232	33	3.26	136
	Cogeneration	951	600	600	14.40	600
	Total UP	8935	4992	4700	107.20	4377
	Uttarakhand	Total Hydro	1303	510	405	11.60
Total Uttarakhand		1303	510	405	11.60	483
Delhi	Rajghat TPS	135	48	48	1.31	55
	Delhi Gas Turbine	282	76	76	1.93	81
	Pragati Gas Turbine	330	289	304	7.33	306
	Rithala GPS	108	26	26	0.61	25
	Bawana GPS	440	0	0	0.00	0
	Badarpur TPS (NTPC)	705	615	580	13.31	554
	Thermal (Total)	2000	1054	1034	24.49	1021
	Total Delhi	2000	1054	1034	24.49	1021
HP	Baspa HPS (IPP)	330	32	0	1.05	44
	Malana HPS (IPP)	101	43	12	0.61	25
	Other Hydro	571	367	303	8.09	337
	Total HP	1002	442	315	10	406
J & K	Baglihar HPS (IPP)	450	350	348	8.38	349
	Other Hydro	323	115	117	2.79	116
	Gas/Diesel/Others	183	0	0	0.00	0
	Total J & K	956	465	465	11.17	465
Total State Control Area Generation		29376	16025	15468	367.59	15227
J. Net Inter Regional Exchange (Import (+ve)/Export (-ve))			1153	1956	33.32	1389
Total Regional Availability(Gross)		50851	34418	28305	711.73	29566

IV. Total Hydro Generation:

Regional Entities Hydro	10033	7726	1806	101.52	4230
State Control Area Hydro	5365	2328	1630	50.63	2110
Total Regional Hydro	15397	10054	3436	152.15	6340

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	-350	0	500	0.00	6.40	-6.40
Gwalior-Agra (D/C)	365	776	995	0	13.91	0.00	13.91
Zerda-Kankroli	-87	-25	39	232	0.00	2.20	-2.20
Zerda-Bhinmal	-66	38	131	190	0.00	0.56	-0.56
Malanpur-Auraiya	-105	-41	0	119	0.00	1.71	-1.71
Badod-Kota/Morak	14	23	34	2	0.31	0.00	0.31
Sub Total WR	-79	421			14.22	10.86	3.36
Pusauli Bypass	-98	10	97	160	0.37	0.83	-0.46
MZP- GKP (D/C)	402	508	530	0	9.59	0.00	9.59
Patna-Balia(D/C)	236	372	410	0	7.48	0.00	7.48
B'Sharif-Balia (D/C)	312	298	359	0	5.22	0.00	5.22
Barh - balia(D/C)	268	254	312	0	6.04	0.00	6.04
Pusauli-Sahupuri	154	131	161	0	3.17	0.00	3.17
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-42	-38	0	48	0.00	1.09	-1.09
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sub Total ER	1232	1535			31.88	1.91	29.96
Total IR Exch	1153	1956			46.10	12.77	33.32

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
26.38	0.46	26.84	-2.08	2.82	2.87	-0.32	1.58	-1.58

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
29.21	1.26	30.47	29.96	3.36	33.32	0.75	2.10	2.85

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	2.30	17.40	96.60	81.50	13.50	1.10

<----- 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	17.05	49.16	19.25	49.84	0.49	0.16	50.20	49.61

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	407	05:34	398	19:10	0.0	0.0	0.0	0.0
Gorakhpur	400	435	14:05	401	19:24	0.0	0.0	70.8	3.1
Bareilly	400	417	07:50	405	12:12	0.0	0.0	0.0	0.0
Kanpur	400	414	05:34	391	19:07	0.0	0.0	0.0	0.0
Dadri	400	424	04:08	399	19:07	0.0	0.0	13.6	0.0
Ballabgarh	400	424	03:01	398	19:06	0.0	0.0	13.5	0.0
Bawana	400	426	03:03	399	19:06	0.0	0.0	19.8	0.0
Bassi	400	421	05:33	394	19:06	0.0	0.0	0.2	0.0
Hissar	400	415	03:05	391	19:06	0.0	0.0	0.0	0.0
Moga	400	427	03:03	0	10:14	33.8	33.8	16.1	0.0
Abdullapur	400	424	03:03	294	17:33	0.4	0.4	18.5	0.0
Nalagarh	400	428	03:58	401	19:07	0.0	0.0	17.4	0.0
Kishenpur	400	424	03:03	401	19:07	0.0	0.0	8.6	0.0
Wagoora	400	409	04:16	388	19:51	0.0	5.3	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 (m ³ /s)	Usage (m ³ /s)
Bhakra	513.59	445.62	479.61	454.47	488.10	671.08	239.90	568.97
Pong	426.72	384.05	404.42	328.16	410.44	514.41	116.81	432.79
Tehri	829.79	740.04	772.30	229.70	818.65	982.26	72.01	187.00
Koteshwar	612.50	598.50	608.75	4.21	NA	NA	188.00	164.00
Chamera-I	760.00	748.75	754.56	NA	754.75	NA	178.50	201.37
Rihand	268.22	252.98	260.09	309.60	255.42	93.00	NA	NA
RPS	352.80	343.81	347.29	NA	NA	NA	NA	91.66
Jawahar Sagar	298.70	295.78	297.88	NA	NA	NA	NA	30.16
RSD	527.91	487.91	496.12	NA	504.12	NA	213.85	231.66

* NA: Not Available

IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

XI. Weather Conditions For 26.03.2012 :

1.Normal

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 : 26.03.2012

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER