

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 17.03.2012
Date of Reporting : 18.03.2012

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
30107	1393	31500	49.96	26730	650	27380	49.96	695.3	35.90

* 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	49.01	10.50		59.51	46.41	41.05	-5.37	100.55	1.80
Haryana	52.60	0.54		53.14	26.01	47.68	21.67	100.82	5.41
Rajasthan	91.06	3.92	7.87	102.84	47.46	57.28	9.81	160.12	1.76
Delhi	29.99			29.99	37.35	25.89	-11.45	55.88	0.05
UP	81.72	6.06	14.40	102.18	86.90	93.38	6.48	195.56	24.47
Uttarakhand		9.11		9.11	14.46	18.67	4.21	27.78	0.11
HP		5.57		5.57	17.03	15.49	-1.54	21.05	0.00
J & K		6.11	0.00	6.11	21.13	24.13	3.01	30.25	2.30
Chandigarh				0.00	3.53	3.25	-0.28	3.25	0.00
Total	304.38	41.80	22.27	368.45	300.26	326.80	26.54	695.25	35.90

* 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	4533	150	-157	-224	3729	0	-341	-148	-3.86
Haryana	4758	85	1280	-168	3537	0	633	-168	-4.04
Rajasthan	6063	0	43	6	7019	0	910	6	0.15
Delhi	2853	8	-195	-129	1525	0	-500	-356	-4.65
UP	7975	1000	97	265	7888	650	223	243	6.14
Uttarakhand	1457	0	308	150	969	0	145	150	3.60
HP	882	0	-400	-297	689	0	106	146	0.38
J&K	1410	150	-14	-18	1289	0	318	-18	-0.44
Chandigarh	176	0	-30	0	85	0	-10	0	0.00
Total	30107	1393	932	-416	26730	650	1484	-145	-2.72

* 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	1960	2088	2103	46.88	1953	47.04	-0.16
	Rihand I STPS	1000	906	991	925	21.94	914	21.75	0.20
	Rihand II STPS	1000	975	1043	1047	23.47	978	23.40	0.07
	Dadri I STPS	840	803	870	623	17.38	724	16.89	0.49
	Dadri II STPS	980	584	1011	396	13.30	554	13.15	0.15
	Unchahar I TPS	440	406	432	444	9.77	407	9.74	0.03
	Unchahar II TPS	440	404	438	438	9.73	405	9.69	0.04
	Unchahar III TPS	210	202	220	218	4.87	203	4.85	0.02
	ISTPP (Jhajjar)	1000	0	0	0	0.00	0	0.00	0.00
	Dadri GPS	830	829	779	655	17.57	732	17.06	0.51
	Anta GPS	419	409	369	254	8.45	352	8.33	0.12
	Auraiya GPS	663	482	311	327	7.32	305	7.45	-0.13
	Sub Total (A)	9822	7961	8552	7430	180.68	7528	179.35	1.33
B. NPC	NAPS	440	279	305	314	6.56	274	6.70	-0.13
	RAPS- B	440	422	461	466	10.10	421	10.13	-0.03
	RAPS- C	440	420	465	474	10.11	421	10.08	0.03
	Sub Total (B)	1320	1121	1231	1254	26.77	1115	26.90	-0.13
C. NHPC	Chamera I HPS	540	534	540	0	4.37	182	3.95	0.42
	Chamera II HPS	300	297	225	0	1.96	82	1.51	0.45
	Bairasuil HPS	180	179	179	0	2.45	102	2.22	0.23
	Salal-HPS	690	227	340	228	5.41	226	4.84	0.57
	Tanakpur-HPS	94	23	28	20	0.52	22	0.53	-0.01
	Uri-HPS	480	319	360	313	7.71	321	7.55	0.16
	Dhauliganga-HPS	280	210	209	0	0.93	39	0.80	0.12
	Dulhasti-HPS	390	388	401	0	2.80	117	2.36	0.45
	Sewa-II HPS	120	119	120	78	2.68	112	2.54	0.13
	Sub Total (C)	3074	2295	2402	639	28.83	1201	26.30	2.53
D. NJPC	Nathpa Jhakri	1500	1200	1595	0	6.63	276	6.60	0.03
	Sub Total (D)	1500	1200	1595	0	6.63	276	6.60	0.03
E. THDC	Tehri HPS	1000	585	600	0	7.12	297	7.00	0.12
	Koteshwar HPS	300	300	300	0	2.59	108	2.50	0.09
	Sub Total (E)	1300	885	900	0	9.71	404	9.50	0.21
F. BBMB	Bhakra HPS	1480	751	993	414	18.49	770	18.03	0.46
	Dehar HPS	990	168	495	0	4.45	185	4.03	0.42
	Pong HPS	396	227	306	126	5.81	242	5.44	0.37
	Sub Total (F)	2866	1146	1794	540	28.75	1198	27.51	1.24
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	0	0	0.40	17	0.35	0.05
	KWHEP HPS(IPP)	1000	0	360	0	3.98	166	3.98	0.00
	Malana Stg-II HPS	100	0	0	0	0.00	0	0.00	0.00
	Shree Cement TPS	300	0	177	154	4.27	178	2.59	1.68
	Sub Total (G)	1592	0	537	154	8.65	360	6.92	1.73
H. Total Regional Entities (A-G)	21475	14608	17011	10017	290.02	12084	283.08	6.93	

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	1035	950	23.06	961	
	Guru Nanak Dev TPS(Bhatinda)	440	219	219	4.66	194	
	Guru Hargobind Singh TPS(L.mbt)	920	963	888	21.29	887	
	Thermal (Total)	2620	2217	2057	49.01	2042	
	Total Hydro	1148	344	312	10.50	437	
	Total Punjab	3768	2561	2369	59.51	2480	
Haryana	Panipat TPS	1360	851	1051	23.48	978	
	DCRTPP (Yamuna nagar)	600	277	90	5.84	243	
	Faridabad GPS (NTPC)	432	400	379	9.60	400	
	RGTPP (khedar) (IPP)	1200	548	507	13.69	570	
	Magnum Diesel (IPP)	25	0	0	0.00	0	
	Jhajjar(CLP)	660	0	0	0.00	0	
	Thermal (Total)	4277	2076	2027	52.60	2192	
	Total Hydro	62	18	17	0.54	23	
	Total Haryana	4339	2094	2044	53.14	2214	
	Rajasthan	kota TPS	1240	1091	1162	27.69	1154
suratgarh TPS		1500	1006	1138	26.87	1119	
Chabra TPS		500	197	210	4.94	206	
Dholpur GPS		330	288	265	6.79	283	
Ramgarh GPS		113	57	58	1.43	60	
RAPS A (NPC)		300	183	184	4.50	188	
Barsingsar (NLC)		250	211	213	5.27	220	
Giral LTPS (IPP)		250	191	142	3.19	133	
Rajwest LTPS (IPP)		540	460	430	10.39	433	
VSLP LTPS (IPP)		135	0	0	0.00	0	
Thermal (Total)		5158	3684	3802	91.06	3794	
Total Hydro		550	161	139	3.92	163	
Wind power		1294	114	434	7.15	298	
Biomass		71	30	30	0.72	30	
Solar		50	0	0	0.00	0	
Renewable/Others (Total)		1365	144	464	7.87	328	
Total Rajasthan		7073	3989	4405	102.84	4285	
UP		Anpara TPS	1630	1271	1438	28.90	1204
		Obra TPS	1442	524	534	11.20	467
		Paricha TPS	640	261	264	5.70	238
	Panki TPS	210	125	120	2.70	113	
	Harduaganj TPS	415	37	38	0.80	33	
	Tanda TPS (NTPC)	440	398	398	9.75	406	
	Roza TPS (IPP)	900	284	493	10.23	426	
	Anpara-C (IPP)	1200	396	397	9.59	399	
	Bajaj Energy Pvt.Ltd(IPP) TPS	180	77	97	2.86	119	
	Thermal (Total)	7057	3373	3779	81.72	3405	
	Vishnuparyag HPS (IPP)	400	74	69	1.74	72	
	Other Hydro	527	234	0	4.32	180	
	Cogeneration	951	600	600	14.40	600	
	Total UP	8935	4281	4448	102.18	4185	
	Uttarakhand	Total Hydro	1303	472	289	9.11	379
Total Uttarakhand		1303	472	289	9.11	379	
Delhi	Rajghat TPS	135	105	54	2.00	83	
	Delhi Gas Turbine	282	75	77	1.92	80	
	Pragati Gas Turbine	330	287	268	7.12	297	
	Rithala GPS	108	30	30	0.55	23	
	Bawana GPS	440	251	57	5.60	233	
	Badarpur TPS (NTPC)	705	570	560	12.80	533	
	Thermal (Total)	2000	1318	1256	29.99	1250	
	Total Delhi	2000	1318	1256	29.99	1250	
HP	Baspa HPS (IPP)	330	0	0	0.94	39	
	Malana HPS (IPP)	101	41	0	0.35	15	
	Other Hydro	571	162	105	4.27	178	
	Total HP	1002	203	105	6	232	
J & K	Baglihar HPS (IPP)	450	238	148	3.70	154	
	Other Hydro	323	95	105	2.41	101	
	Gas/Diesel/Others	183	0	0	0.00	0	
	Total J & K	956	333	253	6.11	255	
Total State Control Area Generation		29376	15251	15169	368.45	15280	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			857	2720	54.98	2291	
Total Regional Availability(Gross)		50851	33119	27906	713.44	29654	

IV. Total Hydro Generation:

Regional Entities Hydro	10033	7051	1179	78.29	3262
State Control Area Hydro	5365	1765	1115	40.07	1669
Total Regional Hydro	15397	8816	2294	118.36	4932

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	0	0	200	0.00	2.61	-2.61
Gwalior-Agra (D/C)	395	911	1359	0	20.66	0.00	20.66
Zerda-Kankroli	-118	-18	87	134	0.00	0.62	-0.62
Zerda-Bhinmal	-72	44	204	132	0.72	0.00	0.72
Malanpur-Auraiya	-103	-58	0	175	0.00	1.09	-1.09
Badod-Kota/Morak	-8	20	50	11	0.45	0.00	0.45
Sub Total WR	-6	899			21.83	4.32	17.51
Pusauli Bypass	-82	225	367	166	4.55	0.49	4.06
MZP- GKP (D/C)	218	554	586	0	9.17	0.00	9.17
Patna-Balia(D/C)	218	554	586	0	9.17	0.00	9.17
B'Sharif-Balia (D/C)	168	418	435	0	7.65	0.00	7.65
Barh - balia(D/C)	248	0	466	0	6.17	0.00	6.17
Pusauli-Sahupuri	123	102	147	0	2.39	0.00	2.39
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-30	-32	0	48	0.00	1.14	-1.14
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sub Total ER	863	1821			39.10	1.63	37.47
Total IR Exch	857	2720			60.93	5.95	54.98

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
29.49	0.14	29.64	-1.36	0.92	6.01	-1.19	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
35.87	-4.01	31.86	37.47	17.51	54.98	1.60	21.51	23.12

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	0.30	3.10	27.90	95.90	71.10	9.10	1.00

<----- 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					
50.41	18.02	49.06	22.02	49.79	0.73	0.16	50.18	49.54

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	03:05	396	15:56	0.0	0.0	0.0	0.0
Gorakhpur	400	429	19:31	405	06:21	0.0	0.0	21.5	0.0
Bareilly	400	419	18:20	396	12:06	0.0	0.0	0.0	0.0
Kanpur	400	414	05:17	395	12:01	0.0	0.0	0.0	0.0
Dadri	400	417	02:50	394	12:08	0.0	0.0	0.0	0.0
Ballabgarh	400	422	05:35	396	12:02	0.0	0.0	1.1	0.0
Bawana	400	421	02:46	398	12:01	0.0	0.0	2.8	0.0
Bassi	400	421	20:59	393	12:02	0.0	0.0	0.1	0.0
Hissar	400	417	20:59	388	12:06	0.0	0.8	0.0	0.0
Moga	400	423	05:35	399	12:04	0.0	0.0	8.9	0.0
Abdullapur	400	428	21:01	294	23:58	0.0	0.0	10.3	0.0
Nalagarh	400	428	20:59	404	12:04	0.0	0.0	29.0	0.0
Kishenpur	400	422	03:20	401	19:12	0.0	0.0	5.0	0.0
Wagoora	400	403	03:14	378	19:45	2.0	36.1	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	481.67	495.33	489.58	735.00	133.41	591.80
Pong	426.72	384.05	405.54	352.07	410.90	524.00	87.73	389.30
Tehri	829.79	740.04	775.60	274.00	818.65	982.26	51.75	220.00
Koteshwar	612.50	598.50	60.81	3.76	NA	NA	198.00	188.00
Chamera-I	760.00	748.75	NA	NA	NA	NA	118.62	134.45
Rihand	268.22	252.98	260.60	338.50	255.67	102.80	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	497.12	NA	504.35	NA	102.73	200.82

* NA: Not Available

IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

XI. Weather Conditions For 17.03.2012 :

1. Normal weather in NR.

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 : 17.03.2012

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER