

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 20.03.2012
Date of Reporting : 21.03.2012

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
30266	1580	31846	49.87	28042	1000	29042	49.99	699.9	36.38

* 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	48.88	10.90		59.78	41.46	35.13	-6.32	94.92	1.80
Haryana	54.45	0.71		55.16	27.08	45.42	18.34	100.58	1.39
Rajasthan	94.77	2.67	12.48	109.91	47.88	56.12	8.25	166.03	0.00
Delhi	25.01			25.01	46.38	36.56	-9.83	61.57	0.00
UP	84.38	7.60	14.40	106.37	89.81	104.04	14.23	210.41	30.28
Uttarakhand		10.48		10.48	14.55	17.76	3.21	28.24	0.60
HP		9.05		9.05	17.97	12.70	-5.27	21.75	0.01
J & K		7.67	0.00	7.67	20.18	5.11	-15.07	12.78	2.30
Chandigarh				0.00	3.84	3.62	-0.22	3.62	0.00
Total	307.48	49.08	26.88	383.44	309.14	316.46	7.32	699.90	36.38

* 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	4384	150	21	-224	3932	0	-270	-148	-3.86
Haryana	4468	0	908	-168	4023	0	840	-168	-4.04
Rajasthan	6129	0	-284	6	7347	0	845	6	0.11
Delhi	3171	0	-179	-115	1780	0	-376	-327	-4.16
UP	8739	1280	583	265	8810	1000	896	243	6.14
Uttarakhand	1392	0	248	150	987	0	176	150	3.60
HP	913	0	-380	-297	721	0	-83	146	0.38
J&K	877	150	-420	-18	347	0	-763	-18	-0.84
Chandigarh	193	0	-17	0	95	0	-9	0	0.00
Total	30266	1580	480	-402	28042	1000	1256	-116	-2.66

* 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	2121	2107	46.87	1953	47.04	-0.17
	Rihand I STPS	1000	915	990	991	22.07	919	21.96	0.11
	Rihand II STPS	1000	975	1037	1041	23.58	983	23.40	0.18
	Dadri I STPS	840	803	873	668	17.95	748	16.81	1.14
	Dadri II STPS	980	971	1632	870	22.59	941	22.00	0.59
	Unchahar I TPS	440	406	439	405	9.68	403	9.37	0.32
	Unchahar II TPS	440	404	440	356	9.49	395	9.04	0.45
	Unchahar III TPS	210	201	219	211	4.82	201	4.58	0.25
	ISTPP (Jhajjar)	1000	0	0	0	0.00	0	0.00	0.00
	Dadri GPS	830	700	647	544	15.60	650	13.87	1.73
	Anta GPS	419	400	375	307	7.89	329	7.79	0.09
	Auraiya GPS	663	482	305	319	7.08	295	7.12	-0.03
	Sub Total (A)	9822	8218	9078	7819	187.62	7818	182.96	4.66
B. NPC	NAPS	440	270	304	307	6.45	269	6.48	-0.03
	RAPS- B	440	418	459	463	10.08	420	10.03	0.05
	RAPS- C	440	420	467	472	10.11	421	10.08	0.03
	Sub Total (B)	1320	1108	1230	1242	26.64	1110	26.59	0.05
C. NHPC	Chamera I HPS	540	534	450	0	4.60	192	4.78	-0.18
	Chamera II HPS	300	297	104	0	3.14	131	2.99	0.14
	Bairasuil HPS	180	179	130	179	3.65	152	3.40	0.25
	Salal-HPS	690	272	422	238	7.16	298	6.10	1.06
	Tanakpur-HPS	94	25	30	23	0.59	25	0.56	0.03
	Uri-HPS	480	370	473	332	7.05	294	8.51	-1.46
	Dhauliganga-HPS	280	210	210	0	1.45	60	1.28	0.17
	Dulhasti-HPS	390	388	415	0	3.05	127	2.61	0.45
	Sewa-II HPS	120	119	116	81	2.74	114	2.68	0.07
	Sub Total (C)	3074	2393	2350	853	33.43	1393	32.91	0.53
D. NJPC	Nathpa Jhakri	1500	1200	1286	0	8.82	368	8.71	0.11
	Sub Total (D)	1500	1200	1286	0	8.82	368	8.71	0.11
E. THDC	Tehri HPS	1000	570	572	0	6.50	271	6.50	0.00
	Koteshwar HPS	300	300	100	0	2.59	108	2.50	0.09
	Sub Total (E)	1300	870	672	0	9.09	379	9.00	0.09
F. BBMB	Bhakra HPS	1480	732	993	414	17.87	745	17.56	0.31
	Dehar HPS	990	263	495	165	7.77	324	6.31	1.47
	Pong HPS	396	254	306	180	6.25	260	6.11	0.14
	Sub Total (F)	2866	1249	1794	759	31.89	1329	29.97	1.92
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	48	0	0.71	29	0.69	0.02
	KWHEP HPS(IPP)	1000	0	360	0	4.76	198	4.32	0.44
	Malana Stg-II HPS	100	0	0	0	0.00	0	0.00	0.00
	Shree Cement TPS	300	0	135	107	2.98	124	2.64	0.34
	Sub Total (G)	1592	0	543	107	8.45	352	7.65	0.80
H. Total Regional Entities (A-G)	21475	15037	16953	10780	305.95	12748	297.79	8.16	

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	23.10	962	
	Guru Nanak Dev TPS(Bhatinda)	440	219	219	4.63	193	
	Guru Hargobind Singh TPS(L.mbt)	920	969	960	21.16	882	
	Thermal (Total)	2620	2228	2219	48.88	2037	
	Total Hydro	1148	369	395	10.90	454	
	Total Punjab	3768	2597	2614	59.78	2491	
Haryana	Panipat TPS	1360	997	990	24.34	1014	
	DCRTPP (Yamuna nagar)	600	278	278	6.59	275	
	Faridabad GPS (NTPC)	432	390	423	9.56	398	
	RGTPP (khedar) (IPP)	1200	550	565	13.96	582	
	Magnum Diesel (IPP)	25	0	0	0.00	0	
	Jhajjar(CLP)	660	0	0	0.00	0	
	Thermal (Total)	4277	2215	2256	54.45	2269	
	Total Hydro	62	24	25	0.71	30	
	Total Haryana	4339	2239	2281	55.16	2298	
	Rajasthan	kota TPS	1240	1011	1162	27.20	1133
suratgarh TPS		1500	1140	1140	26.95	1123	
Chabra TPS		500	420	420	9.45	394	
Dholpur GPS		330	242	234	5.66	236	
Ramgarh GPS		113	65	62	1.44	60	
RAPS A (NPC)		300	182	185	4.52	188	
Barsingsar (NLC)		250	198	189	5.28	220	
Giral LTPS (IPP)		250	133	184	2.86	119	
Rajwest LTPS (IPP)		540	460	458	11.40	475	
VSLP LTPS (IPP)		135	0	0	0.00	0	
Thermal (Total)		5158	3851	4034	94.77	3949	
Total Hydro		550	93	129	2.67	111	
Wind power		1294	399	628	11.45	477	
Biomass		71	43	43	1.02	43	
Solar		50	0	0	0.00	0	
Renewable/Others (Total)		1365	442	671	12.48	520	
Total Rajasthan		7073	4386	4834	109.91	4580	
UP		Anpara TPS	1630	1266	1302	31.00	1292
		Obra TPS	1442	466	487	11.70	488
		Paricha TPS	640	234	232	6.80	283
	Panki TPS	210	128	140	3.00	125	
	Harduaganj TPS	415	0	31	0.40	17	
	Tanda TPS (NTPC)	440	394	398	9.80	408	
	Roza TPS (IPP)	900	284	279	6.70	279	
	Anpara-C (IPP)	1200	396	373	9.09	379	
	Bajaj Energy Pvt.Ltd(IPP) TPS	180	263	238	5.89	245	
	Thermal (Total)	7057	3431	3480	84.38	3516	
	Vishnuparyag HPS (IPP)	400	84	89	1.98	82	
	Other Hydro	527	269	55	5.62	234	
	Cogeneration	951	600	600	14.40	600	
	Total UP	8935	4384	4224	106.37	4350	
	Uttarakhand	Total Hydro	1303	481	294	10.48	437
Total Uttarakhand		1303	481	294	10.48	437	
Delhi	Rajghat TPS	135	98	107	2.37	99	
	Delhi Gas Turbine	282	76	77	1.89	79	
	Pragati Gas Turbine	330	288	270	6.98	291	
	Rithala GPS	108	30	59	0.79	33	
	Bawana GPS	440	0	0	0.00	0	
	Badarpur TPS (NTPC)	705	635	580	12.99	541	
	Thermal (Total)	2000	1127	1093	25.01	1042	
	Total Delhi	2000	1127	1093	25.01	1042	
HP	Baspa HPS (IPP)	330	0	28	0.96	40	
	Malana HPS (IPP)	101	40	15	0.54	23	
	Other Hydro	571	294	269	7.54	314	
	Total HP	1002	334	312	9	377	
J & K	Baglihar HPS (IPP)	450	236	234	5.25	219	
	Other Hydro	323	95	105	2.41	101	
	Gas/Diesel/Others	183	0	0	0.00	0	
	Total J & K	956	331	339	7.67	319	
Total State Control Area Generation		29376	15879	15991	383.44	15894	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			605.269	2183	25.50	1063	
Total Regional Availability(Gross)		50851	33437	28954	714.89	29705	

IV. Total Hydro Generation:

Regional Entities Hydro	10033	6510	1612	88.70	3696
State Control Area Hydro	5365	1901	1549	47.10	1963
Total Regional Hydro	15397	8411	3161	135.81	5659

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	50	0	100	300	0.58	1.31	-0.72
Gwalior-Agra (D/C)	176	885	989	0	12.07	0.00	12.07
Zerda-Kankroli	-214	-109	0	398	0.00	4.33	-4.33
Zerda-Bhinmal	-196	-90	31	306	0.00	3.30	-3.30
Malanpur-Auraiya	0	-46	0	174	0.00	0.72	-0.72
Badod-Kota/Morak	-77	-17	0	130	0.00	1.29	-1.29
Sub Total WR	-261	623			12.65	10.94	1.71
Pusauli Bypass	0	79	166	375	0.60	3.27	-2.67
MZP- GKP (D/C)	208	480	632	0	7.13	0.00	7.13
Patna-Balia(D/C)	243	280	397	0	5.96	0.00	5.96
B'Sharif-Balia (D/C)	111	365	459	0	5.82	0.00	5.82
Barh - balia(D/C)	176	304	365	0	5.60	0.00	5.60
Pusauli-Sahupuri	158	84	185	0	2.90	0.00	2.90
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-30	-32	0	48	0.00	0.95	-0.95
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sub Total ER	866	1560			28.01	4.22	23.79
Total IR Exch	605	2183			40.67	15.16	25.50

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
27.10	0.21	27.31	-1.16	0.77	4.23	-2.73	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
31.95	-5.86	26.09	23.79	1.71	25.50	-8.16	7.57	-0.59

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	0.50	8.30	97.80	90.00	19.20	1.70

<----- 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					
50.31	18.02	49.26	22.05	49.89	0.33	0.14	50.18	49.74

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	07:40	0	12:19	47.5	47.5	0.0	0.0
Gorakhpur	400	430	08:18	407	16:48	0.0	0.0	41.6	0.0
Bareilly	400	420	18:07	398	05:57	0.0	0.0	0.0	0.0
Kanpur	400	413	18:05	394	05:52	0.0	0.0	0.0	0.0
Dadri	400	418	21:52	402	05:57	0.0	0.0	0.0	0.0
Ballabgarh	400	420	21:52	401	10:11	0.0	0.0	0.0	0.0
Bawana	400	420	21:49	403	05:55	0.0	0.0	0.0	0.0
Bassi	400	420	18:04	386	00:12	0.0	5.3	0.0	0.0
Hissar	400	415	21:24	396	00:35	0.0	0.0	0.0	0.0
Moga	400	424	23:54	399	10:50	0.0	0.0	3.1	0.0
Abdullapur	400	426	22:14	407	18:57	0.0	0.0	12.5	0.0
Nalagarh	400	430	22:13	409	18:57	0.0	0.0	14.7	0.0
Kishenpur	400	431	04:26	403	10:52	0.0	0.0	24.3	0.2
Wagoora	400	448	08:42	0	03:49	11.8	11.9	6.5	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	480.58	474.82	488.84	700.02	252.50	572.74
Pong	426.72	384.05	404.98	344.07	410.56	514.41	89.85	421.64
Tehri	829.79	740.04	774.35	252.00	818.65	982.26	69.34	184.00
Koteshwar	612.50	598.50	609.50	4.21	NA	NA	184.00	172.00
Chamera-I	760.00	748.75	NA	NA	NA	NA	172.14	126.40
Rihand	268.22	252.98	260.33	328.20	NA	NA	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	496.03	NA	503.98	NA	134.65	99.85

* NA: Not Available

IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

XI. Weather Conditions For 20.03.2012 :

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 : 20.03.2012

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER