

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 31.03.2012
Date of Reporting : 01.04.2012

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
31411	773	32184	49.94	28814	1088	29902	50.00	728.4	29.50

* 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	53.47	6.70		60.16	48.73	51.39	2.65	111.55	3.05
Haryana	59.99	0.65		60.64	25.70	35.22	9.51	95.86	4.28
Rajasthan	90.36	0.30	3.93	94.59	45.81	65.99	20.17	160.58	1.24
Delhi	25.80			25.80	50.75	37.36	-13.38	63.16	0.08
UP	98.69	5.80	14.40	118.89	91.79	92.66	0.87	211.55	17.90
Uttarakhand		11.85		11.85	14.68	16.91	2.23	28.76	0.65
HP		9.32		9.32	15.86	13.32	-2.55	22.64	0.00
J & K		11.90	0.00	11.90	19.01	18.81	-0.19	30.71	2.30
Chandigarh				0.00	3.90	3.57	-0.33	3.57	0.00
Total	328.31	46.52	18.33	393.16	316.23	335.22	18.99	728.37	29.50

* 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	4310	150	-75	-211	4573	0	136	-117	-3.55
Haryana	4156	153	562	-115	3556	88	116	-115	-2.77
Rajasthan	5777	0	422	-9	6725	0	1220	16	0.25
Delhi	3140	0	-268	-30	1879	0	-1252	48	1.89
UP	10370	320	-29	1190	8813	1000	361	256	8.98
Uttarakhand	1303	0	65	150	1105	0	139	150	3.60
HP	851	0	-78	-997	788	0	-4	146	-1.22
J&K	1316	150	-4	-292	1264	0	178	-192	-5.10
Chandigarh	188	0	-10	0	111	0	3	0	0.00
Total	31411	773	585	-314	28814	1088	897	192	2.09

* 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	2107	2109	47.69	1987	47.04	0.65
	Rihand I STPS	1000	912	986	978	21.98	916	21.90	0.08
	Rihand II STPS	1000	975	1039	1047	23.52	980	23.40	0.12
	Dadri I STPS	840	803	626	870	16.32	680	16.50	-0.17
	Dadri II STPS	980	956	933	984	21.51	896	21.92	-0.41
	Unchahar I TPS	440	406	430	439	9.61	400	9.63	-0.02
	Unchahar II TPS	440	404	441	439	9.64	402	9.50	0.15
	Unchahar III TPS	210	201	211	219	4.78	199	4.77	0.01
	ISTPP (Jhajjar)	1000	0	0	0	0.00	0	0.00	0.00
	Dadri GPS	830	799	636	768	16.65	694	16.22	0.44
	Anta GPS	419	393	291	294	7.51	313	7.35	0.17
	Auraiya GPS	663	456	432	475	10.83	451	9.63	1.20
	Sub Total (A)	9822	8265	8132	8622	190.04	7918	187.85	2.19
B. NPC	NAPS	440	271	294	315	6.51	271	6.50	0.01
	RAPS- B	440	413	454	455	9.90	413	9.91	-0.01
	RAPS- C	440	420	463	471	10.02	417	10.08	-0.06
	Sub Total (B)	1320	1104	1211	1241	26.43	1101	26.50	-0.07
C. NHPC	Chamera I HPS	540	534	450	0	1.75	73	1.81	-0.07
	Chamera II HPS	300	297	217	0	3.79	158	3.10	0.69
	Bairasuil HPS	180	179	179	179	3.55	148	3.50	0.05
	Salal-HPS	690	313	401	116	7.55	315	7.02	0.52
	Tanakpur-HPS	94	22	31	20	0.55	23	0.57	-0.02
	Uri-HPS	480	476	480	477	11.60	484	11.63	-0.03
	Dhauliganga-HPS	280	277	141	0	1.15	48	1.35	-0.20
	Dulhasti-HPS	390	388	376	0	2.67	111	3.46	-0.79
	Sewa-II HPS	120	119	125	133	2.85	119	2.77	0.08
	Sub Total (C)	3074	2604	2400	925	35.46	1478	35.21	0.25
D. NJPC	Nathpa Jhakri	1500	1267	1608	0	10.61	442	10.10	0.51
	Sub Total (D)	1500	1267	1608	0	10.61	442	10.10	0.51
E. THDC	Tehri HPS	1000	550	508	0	6.34	264	6.50	-0.16
	Koteshwar HPS	300	300	261	0	3.54	148	1.50	2.04
	Sub Total (E)	1300	850	769	0	9.88	412	8.00	1.88
F. BBMB	Bhakra HPS	1480	690	1076	412	16.70	696	16.56	0.14
	Dehar HPS	990	304	495	145	7.78	324	7.30	0.48
	Pong HPS	396	98	244	0	2.50	104	2.36	0.14
	Sub Total (F)	2866	1093	1815	557	26.98	1124	26.22	0.76
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	70	0	1.03	43	0.69	0.33
	KWHEP HPS(IPP)	1000	0	654	0	5.63	234	4.80	0.83
	Malana Stg-II HPS	100	0	0	0	0.00	0	0.00	0.00
	Shree Cement TPS	300	0	89	89	1.78	74	3.16	-1.38
	Sub Total (G)	1592	0	813	89	8.43	351	8.65	-0.22
H. Total Regional Entities (A-G)	21475	15183	16748	11434	307.82	12826	302.52	5.30	

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	1220	27.52	1147	
	Guru Nanak Dev TPS(Bhatinda)	440	218	218	4.63	193	
	Guru Hargobind Singh TPS(L.mbt)	920	952	966	21.32	888	
	Thermal (Total)	2620	2210	2404	53.47	2228	
	Total Hydro	1148	345	225	6.70	279	
	Total Punjab	3768	2555	2629	60.16	2507	
Haryana	Panipat TPS	1360	909	899	21.93	914	
	DCRTPP (Yamuna nagar)	600	0	260	3.91	163	
	Faridabad GPS (NTPC)	432	391	478	9.55	398	
	RGTPP (khedar) (IPP)	1200	555	433	12.75	531	
	Magnum Diesel (IPP)	25	0	0	0.00	0	
	Jhajjar(CLP)	660	484	449	11.85	494	
	Thermal (Total)	4277	2339	2519	59.99	2500	
	Total Hydro	62	18	18	0.65	27	
	Total Haryana	4339	2357	2537	60.64	2527	
Rajasthan	kota TPS	1240	1062	1177	27.53	1147	
	suratgarh TPS	1500	1074	1135	26.85	1119	
	Chabra TPS	500	121	405	9.60	400	
	Dholpur GPS	330	150	150	3.64	152	
	Ramgarh GPS	113	64	64	1.51	63	
	RAPS A (NPC)	300	179	184	4.50	188	
	Barsingsar (NLC)	250	104	104	2.59	108	
	Giral LTPS (IPP)	250	59	61	2.59	108	
	Rajwest LTPS (IPP)	540	440	433	11.55	481	
	VSLP LTPS (IPP)	135	0	0	0.00	0	
	Thermal (Total)	5158	3253	3713	90.36	3765	
	Total Hydro	550	11	0	0.30	13	
	Wind power	1294	132	96	3.06	128	
	Biomass	71	36	36	0.87	36	
	Solar	50	0	0	0.00	0	
	Renewable/Others (Total)	1365	168	132	3.93	164	
	Total Rajasthan	7073	3432	3845	94.59	3941	
	UP	Anpara TPS	1630	1253	1252	29.50	1229
		Obra TPS	1442	491	458	11.50	479
Paricha TPS		640	414	392	9.10	379	
Panki TPS		210	149	162	3.70	154	
Harduaganj TPS		415	38	40	0.80	33	
Tanda TPS (NTPC)		440	392	370	9.27	386	
Roza TPS (IPP)		900	824	720	18.17	757	
Anpara-C (IPP)		1200	196	432	10.65	444	
Bajaj Energy Pvt.Ltd(IPP) TPS		180	218	229	6.00	250	
Thermal (Total)		7057	3975	4055	98.69	4112	
Vishnuparyag HPS (IPP)		400	99	99	2.35	98	
Other Hydro		527	200	0	3.45	144	
Cogeneration		951	600	600	14.40	600	
Total UP		8935	4874	4754	118.89	4856	
Uttarakhand	Total Hydro	1303	569	436	11.85	494	
	Total Uttarakhand	1303	569	436	11.85	494	
Delhi	Rajghat TPS	135	109	104	2.52	105	
	Delhi Gas Turbine	282	76	77	1.88	78	
	Pragati Gas Turbine	330	291	303	7.21	301	
	Rithala GPS	108	0	30	0.72	30	
	Bawana GPS	440	0	0	0.00	0	
	Badarpur TPS (NTPC)	705	595	670	13.46	561	
	Thermal (Total)	2000	1071	1184	25.80	1075	
	Total Delhi	2000	1071	1184	25.80	1075	
HP	Baspa HPS (IPP)	330	0	0	0.80	33	
	Malana HPS (IPP)	101	43	21	0.64	27	
	Other Hydro	571	334	270	7.88	328	
	Total HP	1002	377	291	9	388	
J & K	Baglihar HPS (IPP)	450	382	378	9.12	380	
	Other Hydro	323	115	117	2.79	116	
	Gas/Diesel/Others	183	0	0	0.00	0	
	Total J & K	956	497	495	11.90	496	
Total State Control Area Generation		29376	15732	16171	393.16	16283	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			2441	2795	50.89	2120	
Total Regional Availability(Gross)		50851	34921	30400	751.86	31230	

IV. Total Hydro Generation:

Regional Entities Hydro	10033	7316	1482	89.58	3732
State Control Area Hydro	5365	2017	1465	44.17	1840
Total Regional Hydro	15397	9333	2947	133.74	5573

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	-100	0	300	0.00	3.07	-3.07
Gwalior-Agra (D/C)	542	1019	1196	0	19.16	0.00	19.16
Zerda-Kankroli	-3	91	105	191	0.00	0.09	-0.09
Zerda-Bhinmal	-37	153	198	215	1.23	0.00	1.23
Malanpur-Auraiya	-44	-17	0	113	0.00	1.42	-1.42
Badod-Kota/Morak	41	31	65	13	0.36	0.00	0.36
Sub Total WR	399	1177			20.74	4.58	16.16
Pusauli Bypass	22	80	217	168	0.73	1.18	-0.44
MZP- GKP (D/C)	328	500	788	0	9.55	0.00	9.55
Patna-Balia(D/C)	284	204	457	0	6.35	0.00	6.35
B'Sharif-Balia (D/C)	536	369	691	0	9.77	0.00	9.77
Barh - balia(D/C)	740	356	559	0	7.10	0.00	7.10
Pusauli-Sahupuri	174	147	174	0	3.43	0.00	3.43
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-42	-38	0	48	0.00	1.03	-1.03
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sub Total ER	2042	1618			36.93	2.21	34.72
Total IR Exch	2441	2795			57.67	6.79	50.89

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
30.44	0.44	30.89	0.41	3.95	-1.56	-0.36	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
31.31	-0.13	31.18	34.72	16.16	50.89	3.41	16.29	19.71

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	1.40	9.00	92.60	85.00	34.90	6.00

<----- 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					
50.51	17.02	49.37	19.09	49.93	0.37	0.18	50.46	49.69

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	410	04:13	400	18:08	0.0	0.0	0.0	0.0
Gorakhpur	400	434	04:30	216	18:22	0.2	0.2	46.5	10.1
Bareilly	400	0	00:00	9999	00:00	0.0	0.0	0.0	0.0
Kanpur	400	416	04:12	393	18:55	0.0	0.0	0.0	0.0
Dadri	400	422	05:25	401	18:57	0.0	0.0	3.3	0.0
Ballabgarh	400	424	04:31	401	19:08	0.0	0.0	10.9	0.0
Bawana	400	425	05:26	402	19:08	0.0	0.0	22.5	0.0
Bassi	400	421	00:15	402	06:42	0.0	0.0	0.3	0.0
Hissar	400	416	05:28	394	19:08	0.0	0.0	0.0	0.0
Moga	400	429	04:10	408	19:08	0.0	0.0	15.5	0.0
Abdullapur	400	424	05:05	401	19:03	0.0	0.0	27.3	0.0
Nalagarh	400	427	05:28	403	19:08	0.0	0.0	11.5	0.0
Kishenpur	400	422	04:08	398	19:10	0.0	0.0	2.1	0.0
Wagoora	400	408	04:29	380	19:52	0.0	26.2	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	476.89	394.40	486.34	627.57	213.62	542.72
Pong	426.72	384.05	403.32	296.79	410.09	494.27	63.09	168.84
Tehri	829.79	740.04	769.05	199.05	818.65	982.26	75.55	186.00
Koteshwar	612.50	598.50	NA	NA	NA	NA	NA	NA
Chamera-I	760.00	748.75	757.86	NA	756.57	NA	127.70	32.70
Rihand	268.22	252.98	259.90	255.36	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	495.56	NA	504.11	NA	99.31	135.10

* NA: Not Available

IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

XI. Weather Conditions For 31.03.2012 :

1.Normal

XII. Synchronisation of new generating units :

1.Tehri #4 (100MW) commercially Declared with effect from 0000hrs /01.04.12.
2.3*80MVAR(at 765kv level)Bus Reactor at Fatehpur (PG) first time charged at 17:18hrs on 31.03.12.

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

1.80MVAR Bus Reactor first time charged at Amritsa(PG) at 17:33 hrs.on 31.03.2012.
2.125MVAR Bus Reactor first time charged at Jalandhar at 20:46 hrs.on 31.03.2012.
3.As reported by cpcc-1 (powergrid) the 765kv Fatehpur -Gaya line first time charged from fatehpur end at 23:52 hrs on 31.03.2012 but Tripped immediately on O/V.
4.315 MVA ICT-1 first Time charged at Sikar at 23.53 hrs.on 31.03.2012.
5.80MVAR Bus Reactor-1 first time charged at Neemrana at 23:55 hrs.on 31.03.2012.
6.315 MVA ICT-3 first Time charged at Bhiwadi at 22:39 hrs.on 31.03.2012.

XIV. Tripping of lines in pooling stations :

XV. Complete generation loss in a generating station :

Report for : 31.03.2012

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER