

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 30.03.2012
Date of Reporting : 31.03.2012

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
31047	823	31870	49.82	28588	983	29571	50.07	725.6	31.57

* 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	52.04	8.80		60.84	47.60	48.70	1.10	109.54	2.85
Haryana	59.32	0.64		59.96	23.95	37.30	13.36	97.26	5.51
Rajasthan	90.36	0.08	3.87	94.31	47.27	62.83	15.56	157.14	2.05
Delhi	26.27			26.27	49.55	37.73	-11.82	64.00	0.02
UP	99.62	5.45	14.40	119.46	93.98	90.96	-3.02	210.42	17.89
Uttarakhand		11.05		11.05	13.61	18.30	4.69	29.34	0.95
HP		8.63		8.63	14.51	14.86	0.35	23.49	0.00
J & K		9.19	0.00	9.19	19.76	21.52	1.77	30.71	2.30
Chandigarh				0.00	3.84	3.65	-0.18	3.65	0.00
Total	327.61	43.83	18.27	389.71	314.05	335.85	21.80	725.56	31.57

* 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	4237	150	-242	-210	4401	0	-94	-117	-3.55
Haryana	4364	318	1087	-163	3715	0	81	-163	-3.92
Rajasthan	5735	0	342	-150	6917	0	997	6	-1.07
Delhi	3246	0	-63	-187	1813	3	-690	-3	1.08
UP	9710	205	-1354	1190	8671	980	426	243	8.85
Uttarakhand	1288	0	99	150	1064	0	217	100	2.70
HP	885	0	21	-997	783	0	3	146	-1.22
J&K	1385	150	145	-238	1122	0	89	-138	-3.80
Chandigarh	197	0	-5	0	101	0	-11	0	0.00
Total	31047	823	30	-605	28588	983	1019	74	-0.94

* 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	2114	2109	47.00	1959	47.04	-0.04
	Rihand I STPS	1000	915	990	995	22.07	920	21.96	0.11
	Rihand II STPS	1000	975	1042	1048	23.60	983	23.40	0.20
	Dadri I STPS	840	803	780	655	16.67	694	15.38	1.29
	Dadri II STPS	980	966	1010	732	21.28	887	21.41	-0.13
	Unchahar I TPS	440	406	436	436	9.74	406	9.74	0.00
	Unchahar II TPS	440	404	440	439	9.73	405	9.69	0.04
	Unchahar III TPS	210	201	219	220	4.85	202	4.83	0.02
	ISTPP (Jhajjar)	1000	0	0	0	0.00	0	0.00	0.00
	Dadri GPS	830	804	677	780	17.57	732	16.67	0.90
	Anta GPS	419	393	338	307	7.51	313	7.38	0.13
	Auraiya GPS	663	459	457	321	8.56	357	8.23	0.33
	Sub Total (A)	9822	8286	8503	8042	188.58	7858	185.73	2.85
	B. NPC	NAPS	440	270	294	315	6.51	271	6.48
RAPS- B		440	413	453	463	9.91	413	9.91	-0.01
RAPS- C		440	420	469	463	10.07	420	10.08	-0.01
Sub Total (B)		1320	1103	1216	1241	26.49	1104	26.47	0.01
C. NHPC	Chamera I HPS	540	534	540	0	1.20	50	1.26	-0.06
	Chamera II HPS	300	297	196	0	3.10	129	2.44	0.65
	Bairasuil HPS	180	179	179	60	3.14	131	2.47	0.67
	Salal-HPS	690	258	400	132	6.20	258	6.29	-0.09
	Tanakpur-HPS	94	22	27	14	0.47	20	0.51	-0.04
	Uri-HPS	480	476	480	477	11.59	483	11.33	0.26
	Dhauliganga-HPS	280	277	139	0	0.80	33	1.04	-0.23
	Dulhasti-HPS	390	388	361	0	3.70	154	3.93	-0.23
	Sewa-II HPS	120	119	123	118	2.89	120	2.82	0.07
	Sub Total (C)	3074	2549	2445	801	33.09	1379	32.08	1.01
D. NJPC	Nathpa Jhakri	1500	1267	1280	0	8.26	344	9.21	-0.95
	Sub Total (D)	1500	1267	1280	0	8.26	344	9.21	-0.95
E. THDC	Tehri HPS	1000	558	558	0	6.48	270	6.50	-0.02
	Koteshwar HPS	300	300	302	0	2.10	88	2.20	-0.10
	Sub Total (E)	1300	858	860	0	8.58	358	8.70	-0.12
F. BBMB	Bhakra HPS	1480	709	1076	413	17.25	719	17.00	0.25
	Dehar HPS	990	232	495	145	6.02	251	5.56	0.46
	Pong HPS	396	122	240	60	3.01	125	2.92	0.09
	Sub Total (F)	2866	1062	1811	618	26.28	1095	25.48	0.80
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	0	0	0.57	24	0.43	0.13
	KWHEP HPS(IPP)	1000	0	440	0	4.41	184	4.32	0.09
	Malana Stg-II HPS	100	0	0	0	0.00	0	0.00	0.00
	Shree Cement TPS	300	0	213	244	0.52	22	2.87	-2.35
	Sub Total (G)	1592	0	653	244	5.50	229	7.62	-2.13
H. Total Regional Entities (A-G)	21475	15125	16768	10946	296.77	12366	295.31	1.47	

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	1200	1150	27.04	1127	
	Guru Nanak Dev TPS(Bhatinda)	440	219	220	4.72	197	
	Guru Hargobind Singh TPS(L.mbt)	920	951	867	20.28	845	
	Thermal (Total)	2620	2370	2237	52.04	2168	
	Total Hydro	1148	392	297	8.80	366	
	Total Punjab	3768	2762	2534	60.84	2535	
Haryana	Panipat TPS	1360	909	997	22.04	918	
	DCRTPP (Yamuna nagar)	600	0	0	0.00	0	
	Faridabad GPS (NTPC)	432	388	408	9.53	397	
	RGTPP (kheldar) (IPP)	1200	531	563	13.63	568	
	Magnum Diesel (IPP)	25	0	0	0.00	0	
	Jhajjar(CLP)	660	373	880	14.12	588	
	Thermal (Total)	4277	2201	2848	59.32	2472	
	Total Hydro	62	22	15	0.64	27	
	Total Haryana	4339	2223	2863	59.96	2498	
	Rajasthan	kota TPS	1240	1092	1176	27.53	1147
suratgarh TPS		1500	1127	1145	26.85	1119	
Chabra TPS		500	378	394	9.60	400	
Dholpur GPS		330	150	150	3.64	152	
Ramgarh GPS		113	69	61	1.51	63	
RAPS A (NPC)		300	184	183	4.50	188	
Barsingsar (NLC)		250	104	104	2.59	108	
Giral LTPS (IPP)		250	104	104	2.59	108	
Rajwest LTPS (IPP)		540	433	430	11.55	481	
VSLP LTPS (IPP)		135	0	0	0.00	0	
Thermal (Total)		5158	3641	3747	90.36	3765	
Total Hydro		550	0	0	0.08	3	
Wind power		1294	80	274	3.00	125	
Biomass		71	36	36	0.87	36	
Solar		50	0	0	0.00	0	
Renewable/Others (Total)		1365	116	310	3.87	161	
Total Rajasthan		7073	3757	4057	94.31	3930	
UP		Anpara TPS	1630	1236	1253	29.00	1208
		Obra TPS	1442	481	484	11.80	492
		Paricha TPS	640	382	391	9.10	379
	Panki TPS	210	144	131	3.40	142	
	Harduaganj TPS	415	38	40	0.90	38	
	Tanda TPS (NTPC)	440	397	350	10.27	428	
	Roza TPS (IPP)	900	833	720	18.39	766	
	Anpara-C (IPP)	1200	504	423	10.45	436	
	Bajaj Energy Pvt.Ltd(IPP) TPS	180	252	253	6.31	263	
	Thermal (Total)	7057	4267	4045	99.62	4151	
	Vishnuparyag HPS (IPP)	400	99	89	2.18	91	
	Other Hydro	527	251	0	3.27	136	
	Cogeneration	951	600	600	14.40	600	
	Total UP	8935	5217	4734	119.46	4887	
	Uttarakhand	Total Hydro	1303	528	377	11.05	460
Total Uttarakhand		1303	528	377	11.05	460	
Delhi	Rajghat TPS	135	105	108	2.51	105	
	Delhi Gas Turbine	282	75	77	1.86	78	
	Pragati Gas Turbine	330	288	302	7.18	299	
	Rithala GPS	108	34	0	0.73	30	
	Bawana GPS	440	0	0	0.00	0	
	Badarpur TPS (NTPC)	705	590	590	13.99	583	
	Thermal (Total)	2000	1092	1077	26.27	1095	
	Total Delhi	2000	1092	1077	26.27	1095	
HP	Baspa HPS (IPP)	330	28	0	0.84	35	
	Malana HPS (IPP)	101	40	0	0.44	18	
	Other Hydro	571	279	291	7.36	306	
	Total HP	1002	347	291	9	360	
J & K	Baglihar HPS (IPP)	450	274	270	6.40	267	
	Other Hydro	323	115	117	2.79	116	
	Gas/Diesel/Others	183	0	0	0.00	0	
	Total J & K	956	389	387	9.19	383	
Total State Control Area Generation		29376	16315	16320	389.71	16147	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			2073	2621	57.98	2416	
Total Regional Availability(Gross)		50851	35156	29887	744.46	30928	

IV. Total Hydro Generation:

Regional Entities Hydro	10033	6836	1419	81.19	3383
State Control Area Hydro	5365	1929	1367	41.65	1735
Total Regional Hydro	15397	8765	2786	122.84	5118

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	0	-200	0	200	0.00	3.80	-3.80
Gwalior-Agra (D/C)	692	980	1232	0	21.97	0.00	21.97
Zerda-Kankroli	-63	16	147	99	0.00	0.14	-0.14
Zerda-Bhinmal	-29	63	227	111	1.27	0.00	1.27
Malanpur-Auraiya	-22	-17	0	115	0.00	0.59	-0.59
Badod-Kota/Morak	7	52	73	70	0.41	0.00	0.41
Sub Total WR	585	894			23.66	4.53	19.13
Pusauli Bypass	-53	49	168	103	1.18	0.36	0.82
MZP- GKP (D/C)	468	578	792	0	11.51	0.00	11.51
Patna-Balia(D/C)	270	386	478	0	7.43	0.00	7.43
B'Sharif-Balia (D/C)	293	351	392	0	8.90	0.00	8.90
Barh - balia(D/C)	389	263	480	0	7.59	0.00	7.59
Pusauli-Sahupuri	163	138	189	0	3.62	0.00	3.62
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	1488	1727			40.23	1.39	38.85
Total IR Exch	2073	2621			63.89	5.91	57.98

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
29.76	0.28	30.04	-1.28	2.62	5.08	0.88	0.98	-0.98

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
34.82	1.27	36.09	38.85	19.13	57.98	4.02	17.86	21.89

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	1.50	15.80	94.30	80.00	19.30	4.20

<----- 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					
50.54	17.05	49.22	23.05	49.86	0.50	0.18	50.44	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	04:11	401	00:03	0.0	0.0	0.0	0.0
Gorakhpur	400	435	04:21	402	19:10	0.0	0.0	49.2	9.6
Bareilly	400	415	09:00	398	12:35	0.0	0.0	0.0	0.0
Kanpur	400	417	04:10	393	19:11	0.0	0.0	0.0	0.0
Dadri	400	423	04:03	398	16:46	0.0	0.0	3.2	0.0
Ballabgarh	400	426	04:05	398	16:44	0.0	0.0	8.9	0.0
Bawana	400	428	04:11	400	19:12	0.0	0.0	13.2	0.0
Bassi	400	421	05:27	397	10:27	0.0	0.0	0.2	0.0
Hissar	400	416	04:05	393	16:14	0.0	0.0	0.0	0.0
Moga	400	431	04:03	403	16:14	0.0	0.0	17.1	0.8
Abdullapur	400	428	04:05	289	15:15	0.2	0.2	16.5	0.0
Nalagarh	400	430	04:03	404	16:14	0.0	0.0	13.8	0.0
Kishenpur	400	424	04:03	396	19:53	0.0	0.0	3.9	0.0
Wagoora	400	407	04:02	378	19:41	2.3	57.6	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	477.23	401.01	486.56	627.67	204.93	560.34
Pong	426.72	384.05	403.38	296.79	410.09	494.27	69.04	205.95
Tehri	829.79	740.04	769.50	199.05	818.65	982.26	57.57	189.00
Koteshwar	612.50	598.50	NA	NA	NA	NA	NA	NA
Chamera-I	760.00	748.75	756.50	NA	NA	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 30.03.2012 :

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 : 30.03.2012

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER