

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पारसिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 10.01.2013
Date of Reporting : 11.01.2013

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
34230	3576	37806	50.10	29703	1880	31583	50.24	767.5	78.85

* 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)	UI [OD:(+ve), UD: (-ve)]	
	Thermal	Hydro	Renewable/others \$	Total				Consumption (Net MU)	Shortages * (MU)
Punjab	48.44	11.95		60.39	34.24	34.39	0.14	94.77	2.52
Haryana	70.75	0.43		71.18	40.91	41.67	0.75	112.85	6.74
Rajasthan	86.99	4.86	3.58	95.43	80.49	81.41	0.92	176.84	2.78
Delhi	31.64			31.64	45.05	39.63	-5.42	71.27	0.01
UP	117.20	4.94	18.00	140.14	75.34	77.34	2.01	217.49	61.70
Uttarakhand		6.84		6.84	22.74	24.40	1.66	31.24	2.38
HP		4.19		4.19	20.25	19.26	-0.98	23.46	1.04
J & K		3.18	0.00	3.18	27.02	31.98	4.95	35.16	1.70
Chandigarh				0.00	4.25	4.38	0.13	4.38	0.00
Total	355.02	36.39	21.58	412.99	350.29	354.46	4.17	767.45	78.85

* 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	4401	600	-197	-391	3626	0	15	151	-4.80
Haryana	5078	453	-53	-229	3829	0	-23	-261	-7.21
Rajasthan	7670	100	28	986	7086	0	111	1265	41.14
Delhi	3675	0	-179	-268	1769	0	-151	-1569	-17.08
UP	8957	2323	-15	304	9654	1880	425	-179	-3.29
Uttarakhand	1611	0	-92	504	1203	0	44	530	12.01
HP	840	0	-382	377	789	0	7	416	8.51
J&K	1773	100	-46	350	1642	0	289	432	8.31
Chandigarh	226	0	-13	39	104	0	16	-31	0.37
Total	34230	3576	-948	1672	29703	1880	733	754	37.96

* 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)	UI [OG:(+ve), UG: (-ve)]	
								Schedule Net MU	UI Net MU
A. NTPC	Singrauli STPS	2000	1955	2105	2096	47.37	1974	46.92	0.44
	Rihand I STPS	1000	898	884	986	21.51	896	21.54	-0.03
	Rihand II STPS	1000	975	1038	1011	23.24	968	23.40	-0.16
	Rihand III STPS	500	281	312	332	6.36	265	6.74	-0.37
	Dadri I STPS	840	654	805	634	15.53	647	15.39	0.14
	Dadri II STPS	980	844	960	741	19.62	818	19.59	0.04
	Unchahar I TPS	420	406	431	425	9.64	402	9.74	-0.11
	Unchahar II TPS	420	405	440	414	9.58	399	9.72	-0.14
	Unchahar III TPS	210	202	224	214	4.82	201	4.85	-0.03
	ISTPP (Jhajihar)	1500	980	738	749	17.22	718	17.49	-0.27
	Dadri GPS	830	844	515	470	13.16	549	13.28	-0.12
	Anta GPS	419	444	332	234	7.42	309	8.22	-0.80
	Auraiya GPS	663	577	405	303	8.71	363	9.16	-0.45
	Sub Total (A)	10782	9465	9189	8609	204.18	8507	206.03	-1.85
B. NPC	NAPS	440	299	165	168	3.30	138	7.18	-3.88
	RAPS- B	440	303	235	468	6.93	289	7.27	-0.35
	RAPS- C	440	229	418	239	6.03	251	5.51	0.53
	Sub Total (B)	1320	831	818	875	16.26	677	19.95	-3.69
C. NHPC	Chamera I HPS	540	550	540	0	2.39	100	2.38	0.00
	Chamera II HPS	300	303	0	0	1.00	42	1.04	-0.04
	Chamera III HPS	231	231	67	0	0.55	23	0.55	0.01
	Bairasuil HPS	180	182	120	0	0.42	17	0.37	0.04
	Salal-HPS	690	90	224	35	2.30	96	2.29	0.01
	Tanakpur-HPS	94	24	45	24	0.60	25	0.57	0.03
	Uri-HPS	480	110	212	44	2.53	105	2.31	0.22
	Dhauliganga-HPS	280	210	71	0	0.94	39	0.95	-0.01
	Dulhasti-HPS	390	259	272	0	4.61	192	4.10	0.50
	Sewa-II HPS	120	120	111	0	0.32	14	0.35	-0.03
	Sub Total (C)	3305	2078	1662	103	15.65	652	14.91	0.74
D.NJPC	Nathpa Jhakri	1500	1350	1264	0	5.95	248	6.00	-0.05
	Sub Total (D)	1500	1350	1264	0	5.95	248	6.00	-0.05
E. THDC	Tehri HPS	1000	1020	1017	0	9.62	401	9.60	0.02
	Koteshwar HPS	400	400	398	85	3.41	142	3.40	0.01
Sub Total (E)	1400	1420	1415	85	13.03	543	13.00	0.03	
F. BBMB	Bhakra HPS	1480	652	1106	419	16.07	670	15.65	0.42
	Dehar HPS	990	104	495	0	2.41	100	2.49	-0.07
	Pong HPS	396	199	306	66	5.00	208	5.01	-0.01
	Sub Total (F)	2866	955	1907	485	23.48	978	23.14	0.34
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	0	0	0.38	16	0.36	0.01
	KWHEP HPS(IPP)	1000	0	0	0	0.00	0	0.00	0.00
	Malana Stg-II HPS	100	0	20	0	0.13	6	0.13	0.01
	Shree Cement TPS	300	0	283	169	6.33	264	6.44	-0.11
	Budhil HPS(IPP)	70	0	0	0	0.03	1	0.03	0.00
	Sub Total (G)	1662	0	303	169	6.87	286	6.95	-0.09
H. Total Regional Entities (A-G)	22836	16099	16558	10326	285.41	11892	290.00	-4.59	

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	840	1051	22.54	939
	Guru Nanak Dev TPS(Bhatinda)	440	215	218	4.46	186
	Guru Hargobind Singh TPS(L.mbt)	920	966	962	21.44	893
	Thermal (Total)	2620	2021	2231	48.44	2018
	Total Hydro	1148	565	258	11.95	498
	Total Punjab	3768	2586	2489	60.39	2516
Haryana	Panipat TPS	1367	900	924	22.29	929
	DCRTPP (Yamuna nagar)	600	279	280	6.60	275
	Faridabad GPS (NTPC)	432	300	272	7.02	293
	RGTPP (khedar) (IPP)	1200	878	457	14.06	586
	Magnum Diesel (IPP)	25	587	348	10.46	436
	Jhajjar(CLP)	1320	599	371	10.33	431
	Thermal (Total)	4944	196	2652	70.75	2948
	Total Hydro	62	17	18	0.43	18
	Total Haryana	5006	213	2670	71.18	2966
	Rajasthan	kota TPS	1240	1175	1085	27.49
suratgarh TPS		1500	1084	934	25.59	1066
Chabra TPS		500	411	387	9.29	387
Dholpur GPS		330	128	142	3.07	128
Ramgarh GPS		111	78	84	2.07	86
RAPS A (NPC)		300	217	217	4.69	195
Barsingsar (NLC)		250	215	216	5.10	213
Giral LTPS		250	76	62	1.47	61
Rajwest LTPS (IPP)		675	362	362	8.21	342
VSLP LTPS (IPP)		135	0	0	0.00	0
Thermal (Total)		5291	3746	3489	86.99	3624
Total Hydro		550	232	91	4.86	203
Wind power		2191	0	290	2.94	122
Biomass		91	22	22	0.54	22
Solar		201	3	0	0.11	5
Renewable/Others (Total)		2483	22	312	3.58	149
Total Rajasthan		8324	4000	3892	95.43	3976
UP	Anpara TPS	1630	1296	1294	27.10	1129
	Obra TPS	1382	484	538	11.30	471
	Paricha TPS	890	585	699	14.70	613
	Panki TPS	210	60	55	1.30	54
	Harduaganj TPS	665	233	282	5.40	225
	Tanda TPS (NTPC)	440	401	404	9.76	407
	Roza TPS (IPP)	1200	810	1080	23.56	982
	Anpara-C (IPP)	1200	609	602	14.68	612
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	403	403	9.41	392
	Thermal (Total)	8067	4881	5357	117.20	4883
	Vishnuparyag HPS (IPP)	400	0	0	0.00	0
	Other Hydro	527	202	224	4.94	206
	Cogeneration	981	750	750	18.00	750
	Total UP	9975	5833	6331	140.14	5839
Uttarakhand	Total Hydro	1303	496	287	6.84	285
	Total Uttarakhand	1303	496	287	6.84	285
Delhi	Raighat TPS	135	54	54	1.47	61
	Delhi Gas Turbine	282	162	158	3.95	165
	Pragati Gas Turbine	330	315	276	7.60	316
	Rithala GPS	108	20	20	0.22	9
	Bawana GPS	677	189	191	4.42	184
	Badarpur TPS (NTPC)	705	685	580	13.99	583
	Thermal (Total)	2237	1425	1279	31.64	1319
	Total Delhi	2237	1425	1279	31.64	1319
HP	Baspa HPS (IPP)	330	0	0	1.10	46
	Malana HPS (IPP)	86	34	0	0.21	9
	Other Hydro	589	139	84	2.89	120
	Total HP	1005	173	84	4	175
J & K	Baglihar HPS (IPP)	450	134	132	3.18	132
	Other Hydro	323	0	0	0.00	0
	Gas/Diesel/Others	183	0	0	0.00	0
	Total J & K	956	134	132	3.18	132
Total State Control Area Generation		32574	14860	17164	412.99	17208
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			2896	3343	83.64	3485
Total Regional Availability(Gross)		55410	34314	30833	782.05	32585

IV. Total Hydro Generation:

Regional Entities Hydro	10364	6268	673	58.62	2442
State Control Area Hydro	5368	1819	1094	36.39	1516
Total Regional Hydro	15731	8087	1767	95.01	3959

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	-150	200	400	150	5.57	0.17	5.40
Gwalior-Agra (D/C)	539	565	945	0	13.88	0.00	13.88
Zerda-Kankroli	117	81	274	42	3.01	0.00	3.01
Zerda-Bhinmal	245	159	394	0	5.40	0.00	5.40
Malanpur-Auraiya	-176	-98	0	176	0.00	2.51	-2.51
Badod-Kota/Morak	30	44	56	35	0.49	0.00	0.49
Mundra-Mohindergarh(HVDC)	797	794	797	0	19.29	0.00	19.29
Sub Total WR	1402	1745			47.65	2.68	44.97
Pusauli Bypass	300	300	300	0	7.26	0.00	7.26
MZP- GKP (D/C)	248	400	480	0	7.81	0.00	7.81
Patna-Balia(D/C)	629	625	762	0	14.40	0.00	14.40
B'Sharif-Balia (D/C)	296	206	296	0	4.82	0.00	4.82
Barh - Balia(D/C)	0	0	0	0	0.00	0.00	0.00
Pusauli-Balia	-145	-118	0	145	0.00	1.46	-1.46
Gaya-Fatehpur (765 Kv)	72	134	245	0	4.06	0.00	4.06
Pusauli-Sahupuri	126	88	148	0	2.78	0.00	2.78
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-32	-37	0	48	0.00	0.99	-0.99
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sub Total ER	1494	1598			41.12	2.45	38.68
Total IR Exch	2896	3343			88.77	5.13	83.64

V(B). Inter Regional Schedule & Actual Exchanges [Import (+ve)/Export (-ve)] [Corridor wise]

ER	ISGS/LT Schedule (MU)		Bilateral Schedule (MU)		Power Exchange Shdl (MU)		Wheeling (MU)	
	Bhutan	Total	Through ER	Through WR	Through ER	Through WR	Through ER	Through WR
37.58	0.14	37.72	-0.41	7.14	0.77	25.33	0.08	-0.03

Total IR Schedule (MU)			Total IR Actual (MU)			Net IR UI (MU)		
Through ER	Through WR Incld Mndra	Total	Through ER	Through WR	Total	Through ER	Through WR	Total
38.17	49.58	87.74	38.68	44.97	83.64	0.51	-4.61	-4.10

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	0.24	9.82	91.20	81.62	62.53	8.56

<----- Frequency (Hz) ----->				Average Frequency	Frequency Variation Index	Std. Dev.	Frequency in 15 Min Block	
Maximum		Minimum					MAX	MIN
Freq	Time	Freq	Time	Hz	(Hz)	(Hz)	(Hz)	(Hz)
50.63	6.03	49.45	8.16	50.06	0.41	0.17	50.38	49.65

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	402	3:07	410	8:11	41.7	41.7	0.0	0.0
Gorakhpur	400	434	13:01	411	8:25	0.0	0.0	60.5	0.8
Bareilly	400	423	21:55	391	8:19	0.0	0.0	0.2	0.0
Kanpur	400	416	13:01	391	8:14	0.0	0.0	0.0	0.0
Dadri	400	416	20:58	393	9:38	0.0	0.0	0.0	0.0
Ballabhgarh	400	424	21:54	396	8:25	0.0	0.0	0.8	0.0
Bawana	400	423	21:54	397	9:44	0.0	0.0	0.6	0.0
Bassi	400	426	3:39	386	8:17	0.0	2.4	8.9	0.0
Hissar	400	415	13:01	386	8:39	0.0	5.7	0.0	0.0
Moga	400	422	13:01	391	8:42	0.0	0.0	0.4	0.0
Abdullapur	400	428	21:54	400	10:14	0.0	0.0	13.7	0.0
Nalagarh	400	423	13:02	400	9:38	0.0	0.0	1.9	0.0
Kishenpur	400	428	13:01	387	10:03	0.0	1.5	3.5	0.0
Wagooa	400	423	13:15	361	10:09	29.2	72.6	0.9	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	492.75	827.99	500.30	1101.35	144.10	446.53
Pong	426.72	384.05	409.66	484.26	412.69	588.94	62.75	321.74
Tehri	829.79	740.04	806.30	721.19	818.65	982.26	NA	227.00
Koteswar	612.50	598.50	609.10	4.21	NA	NA	227.00	226.00
Chamera-I	760.00	748.75	NA	NA	NA	NA	NA	NA
Rihand	268.22	252.98	261.24	500.10	263.41	617.70	NA	NA
RPS	352.80	343.81	348.42	NA	NA	NA	NA	NA
Jawahar Sagar	298.70	295.78	298.09	NA	NA	NA	NA	NA
RSD	527.91	487.91	513.57	NA	513.80	NA	42.02	215.86

* NA: Not Available

IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

XI. Weather Conditions For 10.01.2013 :

1. Dense fog in some parts of ,Punjab, central UP .

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 : 10.01.2013

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER