

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरसिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 13.01.2013
Date of Reporting : 14.01.2013

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
33224	2673	35897	50.18	27606	925	28531	50.23	728.5	60.91

* 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	48.39	9.39		57.78	30.63	30.44	-0.19	88.22	1.80
Haryana	69.07	0.49		69.56	36.59	35.89	-0.70	105.45	0.47
Rajasthan	82.01	4.78	5.31	92.10	84.90	85.29	0.39	177.39	1.97
Delhi	29.80			29.80	34.57	28.79	-5.78	58.59	0.08
UP	104.14	4.31	18.00	126.45	75.94	78.61	2.68	205.06	49.92
Uttarakhand		8.39		8.39	20.07	19.46	-0.61	27.85	4.47
HP		3.65		3.65	19.77	19.22	-0.55	22.87	0.52
J & K		8.30	0.00	8.30	28.17	31.26	3.09	39.56	1.70
Chandigarh				0.00	3.59	3.54	-0.05	3.54	0.00
Total	333.42	39.30	23.31	396.03	334.23	332.50	-1.73	728.53	60.91

* 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	4282	600	-61	-421	3524	0	61	164	-5.91
Haryana	5370	0	5	-233	3434	0	-91	-786	-10.52
Rajasthan	7393	0	-32	1241	7230	0	-68	1401	44.39
Delhi	2986	0	-186	-739	1396	0	-219	-1421	-23.82
UP	8650	1933	78	619	8595	715	33	-179	0.64
Uttarakhand	1530	40	64	370	981	210	-111	431	10.60
HP	1082	0	-182	311	781	0	1	430	9.23
J&K	1751	100	-136	427	1560	0	152	507	9.11
Chandigarh	180	0	-49	24	105	0	18	-31	0.00
Total	33224	2673	-499	1600	27606	925	-224	517	33.71

* 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	2076	2069	47.34	1973	46.92	0.42
	Rihand I STPS	1000	916	991	958	21.77	907	21.90	-0.13
	Rihand II STPS	1000	975	1031	975	23.35	973	23.40	-0.05
	Rihand III STPS	500	-10	0	0	-0.01	-1	-0.24	0.23
	Dadri I STPS	840	810	800	708	17.32	722	18.73	-1.41
	Dadri II STPS	980	975	978	702	20.68	862	21.74	-1.06
	Unchahar I TPS	420	406	435	406	9.46	394	9.56	-0.10
	Unchahar II TPS	420	405	430	421	9.35	389	9.42	-0.07
	Unchahar III TPS	210	202	217	200	4.65	194	4.73	-0.08
	ISTPP (Jhajihar)	1500	980	651	611	15.45	644	14.60	0.85
	Dadri GPS	830	845	309	440	8.47	353	8.55	-0.08
	Anta GPS	419	429	245	198	5.40	225	5.57	-0.17
	Auraiya GPS	663	658	292	279	6.75	281	6.65	0.11
	Sub Total (A)	10782	9547	8455	7967	189.98	7916	191.53	-1.55
B. NPC	NAPS	440	142	162	169	3.41	142	3.41	0.00
	RAPS- B	440	399	463	414	9.57	399	9.57	0.00
	RAPS- C	440	220	238	238	5.12	214	5.28	-0.16
	Sub Total (B)	1320	761	863	821	18.11	754	18.26	-0.15
C. NHPC	Chamera I HPS	540	550	540	0	2.30	96	2.40	-0.11
	Chamera II HPS	300	303	102	0	1.01	42	1.01	0.00
	Chamera III HPS	231	231	117	0	0.52	21	0.59	-0.08
	Bairasuil HPS	180	182	20	0	0.56	23	0.44	0.12
	Salal-HPS	690	123	224	100	3.31	138	2.87	0.44
	Tanakpur-HPS	94	24	21	24	0.57	24	0.60	-0.02
	Uri-HPS	480	108	226	46	2.70	113	2.35	0.35
	Dhauliganga-HPS	280	210	71	0	0.87	36	0.93	-0.06
	Dulhasti-HPS	390	257	263	0	1.97	82	1.91	0.07
	Sewa-II HPS	120	120	107	0	0.23	10	0.27	-0.04
Sub Total (C)	3305	2109	1691	170	14.04	585	13.37	0.68	
D.NJPC	Nathpa Jhakri	1500	1350	1347	0	6.14	256	6.25	-0.11
	Sub Total (D)	1500	1350	1347	0	6.14	256	6.25	-0.11
E. THDC	Tehri HPS	1000	1020	1009	0	9.83	410	9.80	0.03
	Koteshwar HPS	400	400	400	86	3.43	143	3.40	0.03
Sub Total (E)	1400	1420	1409	86	13.27	553	13.20	0.06	
F. BBMB	Bhakra HPS	1480	650	1106	419	15.96	665	15.59	0.37
	Dehar HPS	990	112	495	140	2.69	112	2.70	0.00
	Pong HPS	396	192	306	66	4.93	205	5.01	-0.08
	Sub Total (F)	2866	954	1907	625	23.58	983	23.29	0.29
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	0	0	0.34	14	0.33	0.01
	KWHEP HPS(IPP)	1000	0	0	0	0.00	0	0.00	0.00
	Malana Stg-II HPS	100	0	18	0	0.14	6	0.07	0.07
	Shree Cement TPS	300	0	275	139	5.41	226	5.47	-0.06
	Budhil HPS(IPP)	70	0	0	0	0.03	1	0.02	0.01
	Sub Total (G)	1662	0	293	139	5.92	247	5.89	0.02
H. Total Regional Entities (A-G)	22836	16140	15965	9808	271.03	11293	271.79	-0.76	

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	950	970	22.90	954	
	Guru Nanak Dev TPS(Bhatinda)	440	190	190	4.45	186	
	Guru Hargobind Singh TPS(L.mbt)	920	964	850	21.04	877	
	Thermal (Total)	2620	2104	2010	48.39	2016	
	Total Hydro	1148	449	259	9.39	391	
	Total Punjab	3768	2553	2269	57.78	2407	
Haryana	Panipat TPS	1367	969	899	23.09	962	
	DCRTPP (Yamuna nagar)	600	281	281	6.66	277	
	Faridabad GPS (NTPC)	432	281	282	6.72	280	
	RGTPP (khedar) (IPP)	1200	945	885	22.08	920	
	Magnum Diesel (IPP)	25	0	0	0.00	0	
	Jhajjar(CLP)	1320	574	353	10.53	439	
	Thermal (Total)	4944	196	2700	69.07	2878	
	Total Hydro	62	20	19	0.49	20	
	Total Haryana	5006	216	2719	69.56	2898	
	Rajasthan	kota TPS	1240	1110	1176	27.46	1144
		suratgarh TPS	1500	970	1031	25.31	1055
Chabra TPS		500	227	224	6.19	258	
Dholpur GPS		330	142	135	3.21	134	
Ramgarh GPS		111	43	46	1.14	48	
RAPS A (NPC)		300	217	217	4.79	200	
Barsingsar (NLC)		250	108	108	2.45	102	
Giral LTPS		250	136	130	2.90	121	
Rajwest LTPS (IPP)		675	339	381	8.55	356	
VSLP LTPS (IPP)		135	0	0	0.00	0	
Thermal (Total)		5291	3292	3448	82.01	3417	
Total Hydro		550	141	125	4.78	199	
Wind power		2191	66	466	4.63	193	
Biomass		91	23	23	0.55	23	
Solar		201	4	0	0.13	6	
Renewable/Others (Total)		2483	89	489	5.31	221	
Total Rajasthan		8324	3522	4062	92.10	3837	
UP	Anpara TPS	1630	861	867	18.60	775	
	Obra TPS	1382	429	421	9.20	383	
	Paricha TPS	890	519	740	13.60	567	
	Panki TPS	210	60	70	1.30	54	
	Harduaganj TPS	665	284	281	5.90	246	
	Tanda TPS (NTPC)	440	300	401	8.60	358	
	Roza TPS (IPP)	1200	810	814	19.47	811	
	Anpara-C (IPP)	1200	789	788	18.79	783	
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	363	361	8.68	362	
	Thermal (Total)	8067	4415	4743	104.14	4339	
	Vishnuparyag HPS (IPP)	400	0	0	0.00	0	
	Other Hydro	527	221	96	4.31	179	
	Cogeneration	981	750	750	18.00	750	
	Total UP	9975	5386	5589	126.45	5269	
Uttarakhand	Total Hydro	1303	423	371	8.39	350	
	Total Uttarakhand	1303	423	371	8.39	350	
Delhi	Raighat TPS	135	107	108	2.49	104	
	Delhi Gas Turbine	282	124	133	2.93	122	
	Pragati Gas Turbine	330	309	269	7.25	302	
	Rithala GPS	108	0	0	0.00	0	
	Bawana GPS	677	190	125	4.00	167	
	Badarpur TPS (NTPC)	705	580	605	13.13	547	
	Thermal (Total)	2237	1310	1240	29.80	1242	
	Total Delhi	2237	1310	1240	29.80	1242	
HP	Baspa HPS (IPP)	330	0	0	0.78	33	
	Malana HPS (IPP)	86	32	0	0.16	7	
	Other Hydro	589	130	74	2.71	113	
	Total HP	1005	162	74	4	152	
J & K	Baglihar HPS (IPP)	450	152	150	3.62	151	
	Other Hydro	323	180	192	4.68	195	
	Gas/Diesel/Others	183	0	0	0.00	0	
	Total J & K	956	332	342	8.30	346	
Total State Control Area Generation		32574	13904	16666	396.03	16501	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			2768	2367	85.41	3559	
Total Regional Availability(Gross)		55410	32637	28841	752.47	31353	

IV. Total Hydro Generation:

Regional Entities Hydro	10364	6372	881	57.50	2396
State Control Area Hydro	5368	1748	1286	39.30	1638
Total Regional Hydro	15731	8120	2167	96.81	4034

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	200	300	300	0	3.86	0.00	3.86
Gwalior-Agra (D/C)	378	357	760	0	12.41	0.00	12.41
Zerda-Kankroli	87	-28	226	64	2.77	0.00	2.77
Zerda-Bhinmal	153	42	398	58	4.76	0.00	4.76
Malanpur-Auraiya	-107	-124	0	180	0.00	2.59	-2.59
Badod-Kota/Morak	37	11	62	62	5.11	0.00	5.11
Mundra-Mohindergarh(HVDC)	774	765	774	0	18.67	0.00	18.67
Sub Total WR	1522	1323			47.59	2.59	45.00
Pusauli Bypass	250	250	250	0	6.04	0.00	6.04
MZP- GKP (D/C)	238	100	474	0	8.26	0.00	8.26
Patna-Balia(D/C)	547	492	838	0	15.87	0.00	15.87
B'Sharif-Balia (D/C)	161	120	399	0	6.14	0.00	6.14
Barh - Balia(D/C)	0	0	0	0	0.00	0.00	0.00
Pusauli-Balia	-109	-153	32	153	0.00	0.97	-0.97
Gaya-Fatehpur (765 Kv)	62	125	236	0	3.24	0.00	3.24
Pusauli-Sahupuri	129	147	164	0	2.81	0.00	2.81
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	1246	1044			42.37	1.96	40.41
Total IR Exch	2768	2367			89.95	4.55	85.41

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
34.85	0.11	34.96	0.18	5.83	1.99	22.07	0.43	-0.40

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
37.56	51.97	89.53	40.41	45.00	85.41	2.85	-6.97	-4.12

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	0.00	0.00	0.90	87.00	86.70	52.30	13.00

<----- Frequency (Hz) ----->				Average Frequency	Frequency Variation Index	Std. Dev.	Frequency in 15 Min Block	
Maximum		Minimum					MAX (Hz)	MIN (Hz)
Freq	Time	Freq	Time	Hz				
50.57	17.04	49.68	16.47	50.02	0.22	0.15	50.43	49.89

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	404	3:16	0	0:05	28.3	28.3	0.0	0.0
Gorakhpur	400	432	14:30	413	9:12	0.0	0.0	86.5	2.3
Bareilly	400	422	3:09	402	9:13	0.0	0.0	1.5	0.0
Kanpur	400	418	4:01	398	9:12	0.0	0.0	0.0	0.0
Dadri	400	419	4:01	400	9:50	0.0	0.0	0.0	0.0
Ballabgarh	400	425	4:00	405	8:35	0.0	0.0	16.3	0.0
Bawana	400	423	3:59	404	9:51	0.0	0.0	10.8	0.0
Bassi	400	427	4:00	392	8:35	0.0	0.0	13.3	0.0
Hissar	400	409	4:00	390	8:35	0.0	0.0	0.0	0.0
Moga	400	412	1:34	396	8:33	0.0	0.0	0.0	0.0
Abdullapur	400	422	2:32	405	8:49	0.0	0.0	5.3	0.0
Nalagarh	400	420	20:51	407	9:59	0.0	0.0	0.0	0.0
Kishenpur	400	417	12:59	391	19:12	0.0	0.0	0.0	0.0
Wagoora	400	412	13:02	365	19:12	32.1	70.6	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 (m ³ /s)	Usage (m ³ /s)
Bhakra	513.59	445.62	492.53	817.99	500.11	1101.35	157.27	447.66
Pong	426.72	384.05	409.55	484.26	412.62	588.94	63.17	303.22
Tehri	829.79	740.04	806.80	715.00	818.65	982.26	34.69	235.00
Koteswar	612.50	598.50	NA	NA	NA	NA	NA	NA
Chamera-I	760.00	748.75	NA	NA	NA	NA	NA	NA
Rihand	268.22	252.98	261.18	500.10	263.38	617.70	NA	NA
RPS	352.80	343.81	348.44	NA	NA	NA	NA	NA
Jawahar Sagar	298.70	295.78	297.82	NA	NA	NA	NA	NA
RSD	527.91	487.91	513.40	NA	508.48	NA	64.93	217.53

* NA: Not Available

IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

XI. Weather Conditions For 13.01.2013 :

1. Light Fog in some parts of eastern 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 : 13.01.2013

पारी प्रभाती अभियंता / SHIFT CHARGE ENGINEER