

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरसिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 08.01.2013

Date of Reporting : 09.01.2013

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
35166	4497	39663	49.98	27748	2540	30288	50.23	740.6	103.15

* 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	49.49	14.50		64.00	30.30	30.88	0.58	94.88	7.40
Haryana	61.06	0.46		61.52	36.36	37.32	0.96	98.83	11.82
Rajasthan	76.58	5.04	3.09	84.71	83.70	86.37	2.67	171.07	7.97
Delhi	33.09			33.09	42.90	39.62	-3.28	72.71	1.00
UP	117.23	4.76	18.00	139.99	65.17	68.42	3.25	208.41	67.57
Uttarakhand		7.76		7.76	20.64	21.96	1.32	29.72	4.54
HP		3.33		3.33	19.15	20.03	0.88	23.36	1.15
J & K		3.61	0.00	3.61	28.88	33.05	4.17	36.66	1.70
Chandigarh				0.00	4.02	4.92	0.89	4.92	0.00
Total	337.44	39.47	21.09	398.00	331.13	342.57	11.44	740.57	103.15

* 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	STOA/PX transaction	
Punjab	4949	690	-32	-415	3376	0	103	160	-5.96	
Haryana	4825	411	-106	-319	3513	0	151	-261	-6.99	
Rajasthan	7613	926	10	1366	6840	0	74	1226	41.69	
Delhi	3821	0	-131	-331	1682	0	-210	-1488	-18.39	
UP	9173	2158	-102	140	8802	2460	246	-179	-5.84	
Uttarakhand	1510	180	82	313	1072	80	2	481	10.66	
HP	1196	32	20	402	779	0	50	391	8.56	
J&K	1820	100	-96	357	1568	0	243	435	8.38	
Chandigarh	259	0	35	9	116	0	35	-31	0.30	
Total	35166	4497	-320	1520	27748	2540	695	734	32.41	

* STOA figures are at sellers boundary & PX figures are at regional boundary.

III. Regional Entities :

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	1946	2098	2095	47.00	1958	46.71	0.28
Rihand I STPS	1000	541	575	506	13.10	546	12.97	0.12
Rihand II STPS	1000	975	1045	1045	23.63	985	23.40	0.23
Rihand III STPS	500	-10	0	0	0.06	3	-0.24	0.30
Dadri I STPS	840	654	825	628	15.69	654	15.64	0.05
Dadri II STPS	980	788	970	689	18.07	753	18.79	-0.72
Unchahar I TPS	420	406	432	396	9.57	399	9.65	-0.08
Unchahar II TPS	420	405	441	376	9.50	396	9.56	-0.06
Unchahar III TPS	210	202	290	201	4.78	199	4.80	-0.02
ISTPP (Jhajihar)	1500	470	464	368	9.64	402	9.99	-0.34
Dadri GPS	830	846	596	550	12.54	523	12.65	-0.11
Anta GPS	419	438	373	297	7.80	325	8.16	-0.36
Auraiya GPS	663	678	322	298	7.07	295	7.20	-0.13
Sub Total (A)	10782	8339	8431	7449	178.45	7435	179.28	-0.83
B. NPC								
NAPS	440	299	333	342	7.17	299	7.18	-0.01
RAPS- B	440	420	455	468	10.12	422	10.08	0.04
RAPS- C	440	220	237	239	5.05	210	5.28	-0.24
Sub Total (B)	1320	939	1025	1049	22.34	931	22.54	-0.20
C. NHPC								
Chamera I HPS	540	550	360	0	2.23	93	2.19	0.04
Chamera II HPS	300	303	100	0	0.99	41	1.22	-0.22
Chamera III HPS	231	231	76	0	0.63	26	0.62	0.01
Bairasuil HPS	180	182	60	0	0.44	18	0.42	0.02
Salai-HPS	690	110	222	30	2.76	115	2.63	0.13
Tanakpur-HPS	94	24	31	15	0.58	24	0.62	-0.04
Uri-HPS	480	106	205	40	2.72	113	2.55	0.17
Dhauliganga-HPS	280	210	278	0	0.99	41	1.01	-0.02
Dulhasi-HPS	390	259	101	0	2.74	114	2.78	-0.04
Sewa-II HPS	120	120	56	0	0.36	15	0.39	-0.03
Sub Total (C)	3305	2095	1489	85	14.44	602	14.43	0.01
D.NJPC								
Nathpa Jhakri	1500	1350	889	0	6.14	256	6.20	-0.06
Sub Total (D)	1500	1350	889	0	6.14	256	6.20	-0.06
E. THDC								
Tehri HPS	1000	1050	1020	0	11.03	459	11.11	-0.09
Koteshwar HPS	400	365	401	85	3.86	161	3.87	0.00
Sub Total (E)	1400	1415	1421	85	14.89	620	14.98	-0.09
F. BBMB								
Bhakra HPS	1480	671	1106	419	16.51	688	16.11	0.40
Dehar HPS	990	121	495	0	2.96	123	2.90	0.06
Pong HPS	396	204	306	66	5.11	213	5.01	0.10
Sub Total (F)	2866	996	1907	485	24.58	1024	24.01	0.57
G. IPP(s)/JV(s)								
ADHPL HPS(IPP)	192	0	0	0	0.39	16	0.37	0.01
KWHEP HPS(IPP)	1000	0	0	0	0.00	0	0.00	0.00
Malana Stg-II HPS	100	0	19	0	0.14	6	0.13	0.01
Shree Cement TPS	300	0	287	183	6.47	270	6.88	-0.40
Budhil HPS(IPP)	70	0	0	0	0.03	1	0.03	0.00
Sub Total (G)	1662	0	306	183	7.03	293	7.40	-0.37
H. Total Regional Entities (A-G)	22836	15134	15468	9336	267.87	11161	268.84	-0.97

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	1049	950	22.39	933
	Guru Nanak Dev TPS(Bhatinda)	440	328	295	6.85	285
	Guru Hargobind Singh TPS(L.mbt)	920	963	776	20.25	844
	Thermal (Total)	2620	2340	2021	49.49	2062
	Total Hydro	1148	777	264	14.50	604
	Total Punjab	3768	3117	2285	64.00	2666
Haryana	Panipat TPS	1367	1124	1089	27.14	1131
	DCRTPP (Yamuna nagar)	600	283	278	6.64	277
	Faridabad GPS (NTPC)	432	441	276	9.77	407
	RGTPP (khedar) (IPP)	1200	512	0	7.04	293
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	1320	580	354	10.46	436
	Thermal (Total)	4944	196	1997	61.06	2544
	Total Hydro	62	20	18	0.46	19
	Total Haryana	5006	216	2015	61.52	2563
Rajasthan	kota TPS	1240	981	973	25.01	1042
	suratgarh TPS	1500	1108	1071	25.26	1052
	Chabra TPS	500	191	188	4.85	202
	Dholpur GPS	330	130	95	2.41	100
	Ramgarh GPS	111	78	86	2.03	85
	RAPS A (NPC)	300	217	181	4.65	194
	Barsingsar (NLC)	250	108	99	2.43	101
	Giral LTPS	250	73	55	1.46	61
	Rajwest LTPS (IPP)	675	364	364	8.48	353
	VSLP LTPS (IPP)	135	0	0	0.00	0
	Thermal (Total)	5291	3250	3112	76.58	3191
	Total Hydro	550	184	84	5.04	210
	Wind power	2191	67	230	2.42	101
	Biomass	91	22	22	0.54	22
	Solar	201	3	0	0.14	6
	Renewable/Others (Total)	2483	89	252	3.09	129
	Total Rajasthan	8324	3523	3448	84.71	3529
	UP	Anpara TPS	1630	1240	1166	28.70
Obra TPS		1382	461	329	8.80	367
Paricha TPS		890	640	643	15.10	629
Panki TPS		210	0	54	0.30	13
Harduaganj TPS		665	256	236	5.20	217
Tanda TPS (NTPC)		440	402	405	9.86	411
Roza TPS (IPP)		1200	1130	1062	25.69	1070
Anpara-C (IPP)		1200	618	608	14.84	618
Bajaj Energy Pvt.Ltd(IPP) TPS		450	365	365	8.74	364
Thermal (Total)		8067	5112	4868	117.23	4885
Vishnuparyag HPS (IPP)		400	0	0	0.00	0
Other Hydro		527	208	225	4.76	198
Cogeneration		981	750	750	18.00	750
Total UP		9975	6070	5843	139.99	5833
Uttarakhand		Total Hydro	1303	472	274	7.76
	Total Uttarakhand	1303	472	274	7.76	324
Delhi	Raighat TPS	135	105	90	2.40	100
	Delhi Gas Turbine	282	119	152	3.60	150
	Pragati Gas Turbine	330	322	330	7.82	326
	Rithala GPS	108	0	0	0.14	6
	Bawana GPS	677	214	206	4.86	202
	Badarpur TPS (NTPC)	705	690	570	14.27	595
	Thermal (Total)	2237	1450	1348	33.09	1379
Total Delhi	2237	1450	1348	33.09	1379	
HP	Baspa HPS (IPP)	330	0	0	0.18	8
	Malana HPS (IPP)	86	33	0	0.17	7
	Other Hydro	589	151	83	2.98	124
	Total HP	1005	184	83	3	139
J & K	Baglihar HPS (IPP)	450	152	152	3.61	150
	Other Hydro	323	0	0	0.00	0
	Gas/Diesel/Others	183	0	0	0.00	0
	Total J & K	956	152	152	3.61	150
Total State Control Area Generation		32574	15184	15448	398.00	16583
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			3255	3886	94.50	3938
Total Regional Availability(Gross)		55410	33907	28670	760.37	31682

IV. Total Hydro Generation:

Regional Entities Hydro	10364	5725	655	60.58	2524
State Control Area Hydro	5368	1997	1100	39.47	1644
Total Regional Hydro	15731	7722	1755	100.04	4169

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	Import	Export	
Vindhychal B/B	400	500	500	0	9.17	0.00	9.17	0.00	9.17
Gwalior-Agra (D/C)	353	485	909	0	13.47	0.00	13.47	0.00	13.47
Zerda-Kankroli	76	138	267	0	3.73	0.00	3.73	0.00	3.73
Zerda-Bhinmal	199	217	430	0	5.96	0.00	5.96	0.00	5.96
Malanpur-Auraiya	-189	-92	0	189	0.00	2.38	-2.38	0.00	-2.38
Badod-Kota/Morak	64	94	104	0	1.23	0.00	1.23	0.00	1.23
Mundra-Mohindergarh(HVDC)	784	862	863	0	20.14	0.00	20.14	0.00	20.14
Sub Total WR	1687	2204			53.70	2.38			51.32
Pusauli Bypass	300	300	300	0	7.27	0.00	7.27	0.00	7.27
MZP- GKP (D/C)	284	330	506	0	8.46	0.00	8.46	0.00	8.46
Patna-Balia(D/C)	701	649	906	0	17.72	0.00	17.72	0.00	17.72
B'Sharif-Balia (D/C)	147	207	369	0	5.31	0.00	5.31	0.00	5.31
Barh - Balia(D/C)	0	0	0	0	0.00	0.00	0.00	0.00	0.00
Pusauli-Balia	-112	-64	0	113	0.00	1.65	-1.65	0.00	-1.65
Gaya-Fatehpur (765 Kv)	126	233	277	0	4.49	0.00	4.49	0.00	4.49
Pusauli-Sahupuri	154	64	170	0	2.56	0.00	2.56	0.00	2.56
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00	0.00	0.00
Son Ngr-Rihand	-32	-37	0	48	0.00	0.99	-0.99	0.00	-0.99
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00	0.00	0.00
Sub Total ER	1568	1682			45.82	2.63			43.19
Total IR Exch	3255	3886			99.51	5.01			94.50

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
36.28	0.27	36.55	-0.14	3.18	0.75	22.68	-0.71	0.74
Total IR Schedule (MU)			Total IR Actual (MU)			Net IR UI (MU)		
Through ER	Through WR Inclds Mndra	Total	Through ER	Through WR	Total	Through ER	Through WR	Total
36.46	52.03	88.49	43.19	51.32	94.50	6.72	-0.71	6.01

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	0.17	12.01	97.21	85.37	57.15	2.62

<----- 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				
50.49	18.02	49.47	18.25	50.01	0.30	0.14	50.37	49.71

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	405	03:11	395	22:04	0.0	0.0	0.0	0.0
Gorakhpur	400	429	06:48	409	10:17	0.0	0.0	70.6	0.0
Bareilly	400	419	03:08	397	10:10	0.0	0.0	0.0	0.0
Kanpur	400	417	03:11	394	10:10	0.0	0.0	0.0	0.0
Dadri	400	418	03:06	401	08:11	0.0	0.0	0.0	0.0
Ballabhgarh	400	424	03:44	402	09:50	0.0	0.0	14.4	0.0
Bawana	400	423	03:05	404	09:55	0.0	0.0	15.3	0.0
Bassi	400	428	04:00	392	08:13	0.0	0.0	25.2	0.0
Hissar	400	413	06:14	393	18:24	0.0	0.0	0.0	0.0
Moga	400	414	13:10	397	11:20	0.0	0.0	0.0	0.0
Abdullapur	400	422	03:03	407	09:55	0.0	0.0	10.7	0.0
Nalagarh	400	422	06:14	403	12:14	0.0	0.0	1.5	0.0
Kishenpur	400	412	13:09	390	15:16	0.0	0.0	0.0	0.0
Wagoora	400	402	11:09	366	15:16	47.9	83.5	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	493.20	838.00	500.64	1127.29	157.44	463.97
Pong	426.72	384.05	409.90	494.27	412.87	600.08	61.96	327.26
Tehri	829.79	740.04	807.25	748.00	818.65	982.26	35.63	259.00
Koteshwar	612.50	598.50	609.45	4.21	NA	NA	259.00	256.00
Chamera-I	760.00	748.75	NA	NA	NA	NA	43.77	59.81
Rihand	268.22	252.98	266.94	500.10	263.50	617.70	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	515.02	NA	509.91	NA	58.67	250.83

* NA: Not Available

IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

XI. Weather Conditions For 08.01.2013 :

1. fog in Haryana , West UP and shallow fog Delhi/NCR .

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 : 08.01.2013

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER