

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरसिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 23.12.2012

Date of Reporting : 24.12.2012

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
32833	3141	35974	50.00	26428	665	27093	50.17	713.8	47.19

* 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	47.68	9.73		57.41	31.25	30.97	-0.28	88.39	2.13
Haryana	52.86	0.55		53.41	51.04	51.88	0.84	105.28	2.22
Rajasthan	91.17	4.72	2.62	98.50	74.14	73.61	-0.53	172.11	0.14
Delhi	22.76			22.76	37.18	33.40	-3.78	56.16	0.11
UP	107.38	4.28	16.80	128.46	69.96	68.72	-1.24	197.18	40.61
Uttarakhand		8.24		8.24	21.03	21.80	0.77	30.03	0.26
HP		4.41		4.41	19.26	18.53	-0.74	22.94	0.01
J & K		6.74	0.00	6.74	29.39	31.67	2.28	38.41	1.70
Chandigarh				0.00	3.46	3.31	-0.15	3.31	0.00
Total	321.85	38.67	19.42	379.93	336.71	333.89	-2.83	713.81	47.19

* 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	4509	600	-38	-253	2971	0	53	60	-6.76	
Haryana	5289	115	82	416	3838	0	-43	-32	4.15	
Rajasthan	7319	0	75	963	7002	0	-163	906	35.12	
Delhi	2914	0	-307	-974	1350	0	-90	-2215	-34.14	
UP	8381	2286	-603	-126	7781	665	95	-105	-6.97	
Uttarakhand	1367	40	28	564	1066	0	3	409	10.27	
HP	1129	0	-151	235	778	0	44	337	7.03	
J&K	1751	100	-74	398	1548	0	67	501	9.43	
Chandigarh	175	0	-14	-12	94	0	1	-30	-0.44	
Total	32833	3141	-1002	1212	26428	665	-33	-169	17.67	

* 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	1947	2088	1889	46.36	1932	46.72	-0.36
Rihand I STPS	1000	920	986	890	22.24	926	22.08	0.16
Rihand II STPS	1000	975	1041	935	22.82	951	23.40	-0.58
Rihand III STPS	500	160	0	315	3.63	151	3.85	-0.21
Dadri I STPS	840	810	869	613	17.16	715	17.73	-0.57
Dadri II STPS	980	975	1000	822	21.47	895	22.81	-1.34
Unchahar I TPS	420	407	443	325	9.23	384	9.22	0.00
Unchahar II TPS	420	405	442	329	9.13	380	9.10	0.03
Unchahar III TPS	210	202	222	178	4.57	190	4.65	-0.08
ISTPP (Jhajhar)	1500	940	714	653	16.77	699	17.87	-1.09
Dadri GPS	830	844	349	321	8.90	371	9.01	-0.11
Anta GPS	419	434	212	175	5.30	221	5.16	0.13
Auraiya GPS	663	671	268	242	6.60	275	6.53	0.07
Sub Total (A)	10782	9690	8634	7687	194.16	8090	198.13	-3.96
B. NPC								
NAPS	440	282	313	164	5.81	242	6.77	-0.96
RAPS- B	440	208	234	235	5.00	208	4.99	0.00
RAPS- C	440	440	476	478	10.27	428	10.56	-0.29
Sub Total (B)	1320	930	1023	877	21.07	878	22.32	-1.25
C. NHPC								
Chamera I HPS	540	365	180	0	2.14	89	2.20	-0.06
Chamera II HPS	300	303	100	0	1.24	52	1.28	-0.04
Chamera III HPS	231	231	77	0	0.68	28	0.72	-0.04
Bairasuil HPS	180	182	0	0	0.56	23	0.49	0.07
Salai-HPS	690	116	130	30	2.74	114	2.77	-0.03
Tanakpur-HPS	94	29	32	37	0.69	29	0.70	-0.01
Uri-HPS	480	94	220	48	3.02	126	3.11	-0.08
Dhauliganga-HPS	280	210	141	0	1.18	49	1.15	0.03
Dulhasti-HPS	390	388	257	0	2.66	111	2.70	-0.04
Sewa-II HPS	120	80	72	0	0.28	12	0.27	0.01
Sub Total (C)	3305	1997	1209	115	15.19	633	15.40	-0.21
D.NJPC								
Nathpa Jhakri	1500	1605	644	0	7.02	293	7.00	0.02
Sub Total (D)	1500	1605	644	0	7.02	293	7.00	0.02
E. THDC								
Tehri HPS	1000	1050	915	0	10.72	447	10.50	0.22
Koteswar HPS	400	295	302	93	3.59	149	3.60	-0.02
Sub Total (E)	1400	1345	1217	93	14.30	596	14.10	0.20
F. BBMB								
Bhakra HPS	1480	631	1104	416	15.50	646	15.15	0.35
Dehar HPS	990	133	495	0	3.23	135	3.20	0.03
Pong HPS	396	218	300	60	5.40	225	5.01	0.39
Sub Total (F)	2866	982	1899	476	24.13	1005	23.36	0.77
G. IPP(s)/JV(s)								
ADHPL HPS(IPP)	192	0	0	0	0.50	21	0.52	-0.02
KWHEP HPS(IPP)	1000	0	0	0	0.00	0	0.00	0.00
Malana Stg-II HPS	100	0	21	0	0.18	7	0.15	0.02
Shree Cement TPS	300	0	272	252	6.08	253	6.06	0.02
Budhil HPS(IPP)	70	0	0	0	0.00	0	0.17	-0.17
Sub Total (G)	1662	0	293	252	6.76	282	6.90	-0.15
H. Total Regional Entities (A-G)	22836	16549	14919	9500	282.64	11777	287.22	-4.58

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	1052	870	22.36	932	
	Guru Nanak Dev TPS(Bhatinda)	440	337	295	6.92	288	
	Guru Hargobind Singh TPS(L.mbt)	920	918	705	18.40	767	
	Thermal (Total)	2620	2307	1870	47.68	1987	
	Total Hydro	1148	409	269	9.73	406	
	Total Punjab	3768	2716	2139	57.41	2392	
Haryana	Panipat TPS	1367	811	818	19.81	825	
	DCRTPP (Yamuna nagar)	600	282	278	6.69	279	
	Faridabad GPS (NTPC)	432	404	316	8.61	359	
	RGTPP (khedar) (IPP)	1200	299	0	2.83	118	
	Magnum Diesel (IPP)	25	0	0	0.00	0	
	Jhajjar(CLP)	1320	616	618	14.92	622	
	Thermal (Total)	4944	196	2030	52.86	2202	
	Total Hydro	62	22	23	0.55	23	
	Total Haryana	5006	218	2053	53.41	2225	
Rajasthan	kota TPS	1240	1165	1172	27.81	1159	
	suratgarh TPS	1500	1140	1289	29.97	1249	
	Chabra TPS	500	397	420	9.56	398	
	Dholpur GPS	330	139	144	3.33	139	
	Ramgarh GPS	111	42	38	1.06	44	
	RAPS A (NPC)	300	181	181	4.39	183	
	Barsingar (NLC)	250	215	215	5.09	212	
	Giral LTPS	250	83	70	1.63	68	
	Rajwest LTPS (IPP)	540	360	360	8.33	347	
	VSLP LTPS (IPP)	135	0	0	0.00	0	
	Thermal (Total)	5156	3722	3889	91.17	3799	
	Total Hydro	550	134	153	4.72	197	
	Wind power	2191	69	101	1.93	80	
	Biomass	91	22	22	0.53	22	
	Solar	201	4	0	0.15	6	
	Renewable/Others (Total)	2483	91	123	2.62	109	
	Total Rajasthan	8189	3947	4165	98.50	4104	
	UP	Anpara TPS	1630	1122	1054	26.80	1117
		Obra TPS	1382	340	309	7.80	325
Paricha TPS		890	608	617	14.50	604	
Panki TPS		210	59	54	1.30	54	
Harduaganj TPS		665	214	131	4.40	183	
Tanda TPS (NTPC)		440	401	326	9.26	386	
Roza TPS (IPP)		1200	900	828	21.20	883	
Anpara-C (IPP)		1200	539	533	12.85	536	
Bajaj Energy Pvt.Ltd(IPP) TPS		450	405	365	9.27	386	
Thermal (Total)		8067	4588	4217	107.38	4474	
Vishnuparyag HPS (IPP)		400	0	0	0.00	0	
Other Hydro		527	157	200	4.28	178	
Cogeneration		981	700	700	16.80	700	
Total UP		9975	5445	5117	128.46	5353	
Uttarakhand		Total Hydro	1303	413	293	8.24	343
	Total Uttarakhand	1303	413	293	8.24	343	
Delhi	Raighat TPS	135	50	45	1.11	46	
	Delhi Gas Turbine	282	79	73	1.77	74	
	Pragati Gas Turbine	330	320	331	7.84	327	
	Rithala GPS	108	0	0	0.00	0	
	Bawana GPS	677	31	214	2.36	98	
	Badarpur TPS (NTPC)	705	480	400	9.69	404	
	Thermal (Total)	2237	960	1063	22.76	948	
	Total Delhi	2237	960	1063	22.76	948	
HP	Baspa HPS (IPP)	330	61	0	1.00	42	
	Malana HPS (IPP)	86	41	0	0.21	9	
	Other Hydro	589	167	94	3.20	133	
	Total HP	1005	269	94	4	184	
J & K	Baglihar HPS (IPP)	450	150	148	3.56	148	
	Other Hydro	323	120	175	3.18	133	
	Gas/Diesel/Others	183	0	0	0.00	0	
	Total J & K	956	270	323	6.74	281	
Total State Control Area Generation		32439	14238	15247	379.93	15830	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			2967	2991	68.72	2863	
Total Regional Availability(Gross)		55275	32124	27738	731.29	30470	

IV. Total Hydro Generation:

Regional Entities Hydro	10364	4990	684	61.32	2555
State Control Area Hydro	5368	1674	1355	38.67	1611
Total Regional Hydro	15731	6664	2039	99.99	4166

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	-500	-200	0	500	0.00	8.40	0.00	8.40	-8.40
Gwalior-Agra (D/C)	539	509	772	0	11.19	0.00	11.19	0.00	11.19
Zerda-Kankroli	50	-15	119	198	0.00	0.29	0.00	0.29	-0.29
Zerda-Bhinmal	159	94	275	102	2.37	0.00	2.37	0.00	2.37
Malanpur-Auraiya	-99	-120	0	154	0.00	2.05	0.00	2.05	-2.05
Badod-Kota/Morak	10	-29	59	79	0.00	0.22	0.00	0.22	-0.22
Mundra-Mohindergarh(HVDC)	625	624	625	0	15.00	0.00	15.00	0.00	15.00
Sub Total WR	784	863			28.56	10.96			17.60
Pusauli Bypass	-34	100	100	93	0.40	0.95	0.00	0.95	-0.55
MZP- GKP (D/C)	552	634	766	0	15.23	0.00	15.23	0.00	15.23
Patna-Balia(D/C)	900	777	1036	0	21.35	0.00	21.35	0.00	21.35
B'Sharif-Balia (D/C)	373	264	445	0	7.96	0.00	7.96	0.00	7.96
Barh - Balia(D/C)	0	0	0	0	0.00	0.00	0.00	0.00	0.00
Pusauli-Balia	38	-17	44	83	0.00	0.46	0.00	0.46	-0.46
Gaya-Fatehpur (765 Kv)	260	286	312	0	5.53	0.00	5.53	0.00	5.53
Pusauli-Sahupuri	131	116	152	0	3.11	0.00	3.11	0.00	3.11
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00	0.00	0.00
Son Ngr-Rihand	-37	-32	0	48	0.00	1.04	0.00	1.04	-1.04
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00	0.00	0.00
Sub Total ER	2183	2128			53.56	2.45			51.12
Total IR Exch	2967	2991			82.12	13.40			68.72

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
43.91	0.30	44.20	9.07	-18.45	-0.08	22.59	0.60	-0.59
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
53.79	13.35	67.14	51.12	17.60	68.72	-2.67	4.26	1.58

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	0.30	4.70	89.60	85.20	43.20	10.10

<----- 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				
50.46	6.03	49.44	9.20	49.97	0.30	0.17	50.39	49.72

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	22:31	0	11:18	48.4	48.4	0.0	0.0
Gorakhpur	400	425	23:14	405	10:53	0.0	0.0	22.1	0.0
Bareilly	400	0	00:00	9999	00:00	0.0	0.0	0.0	0.0
Kanpur	400	421	03:16	397	11:03	0.0	0.0	0.5	0.0
Dadri	400	418	03:18	398	11:30	0.0	0.0	0.0	0.0
Ballabhgarh	400	425	03:16	403	11:03	0.0	0.0	13.8	0.0
Bawana	400	423	03:16	402	11:27	0.0	0.0	7.6	0.0
Bassi	400	430	03:34	396	11:07	0.0	0.0	15.5	0.0
Hissar	400	414	03:17	390	12:17	0.0	0.0	0.0	0.0
Moga	400	415	03:17	391	12:17	0.0	0.0	0.0	0.0
Abdullapur	400	424	21:13	406	11:32	0.0	0.0	9.7	0.0
Nalagarh	400	422	06:00	404	11:27	0.0	0.0	2.6	0.0
Kishenpur	400	410	01:20	390	12:11	0.0	0.0	0.0	0.0
Wagoora	400	393	03:09	365	12:17	62.9	91.5	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	496.51	960.37	503.56	1245.57	136.35	414.76
Pong	426.72	384.05	411.91	555.85	414.54	656.23	71.33	336.77
Tehri	829.79	740.04	814.70	1052.00	818.65	982.26	49.55	243.00
Koteshwar	612.50	598.50	610.70	4.95	NA	NA	243.00	238.00
Chamera-I	760.00	748.75	NA	NA	NA	NA	52.81	58.08
Rihand	268.22	252.98	262.22	500.10	263.90	617.70	NA	NA
RPS	352.80	343.81	348.68	NA	NA	NA	NA	NA
Jawahar Sagar	298.70	295.78	298.34	NA	NA	NA	NA	NA
RSD	527.91	487.91	518.44	NA	514.04	NA	87.87	179.08

* NA: Not Available

IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

XI. Weather Conditions For 23.12.2012 :

1. Fog in some part of UP, Haryana & Punjab.

XII. Synchronisation of new generating units :

0.00

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 : 23.12.2012

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER