

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरसिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 12.12.2012

Date of Reporting : 13.12.2012

I. Regional Availability/Demand:

Demand Met	Evening Peak (19:00 Hrs) MW			Demand Met	Off Peak (03:00 Hrs) MW			Day Energy (Net MU)	
	Shortage	Requirement	Freq* (Hz)		Shortage	Requirement	Freq* (Hz)	Demand Met	Shortage
32036	3746	35782	50.06	25180	300	25480	50.48	683.6	48.47

* 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	42.47	9.86		52.33	36.26	30.76	-5.50	83.09	7.81
Haryana	58.91	0.64		59.55	34.32	35.45	1.13	95.00	4.75
Rajasthan	91.07	5.17	2.36	98.60	68.20	69.00	0.81	167.60	0.00
Delhi	24.24			24.24	35.83	33.38	-2.46	57.61	0.07
UP	93.48	3.51	14.40	111.40	75.18	73.55	-1.63	184.94	33.80
Uttarakhand		10.29		10.29	20.14	19.90	-0.24	30.19	0.01
HP		5.04		5.04	18.13	18.67	0.54	23.71	0.34
J & K		7.44	0.00	7.44	29.52	30.59	1.07	38.03	1.70
Chandigarh				0.00	3.54	3.49	-0.05	3.49	0.00
Total	310.16	41.95	16.76	368.87	321.12	314.78	-6.33	683.65	48.47

* 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	4209	800	-210	-509	2978	0	-209	-35	-7.42	
Haryana	4615	622	6	-79	3327	0	26	-175	-4.60	
Rajasthan	7298	0	147	401	6976	0	57	966	25.86	
Delhi	3048	0	-131	-1061	1331	0	-46	-2304	-35.40	
UP	8393	2206	89	-127	7472	300	-464	-110	-6.54	
Uttarakhand	1517	0	36	435	897	0	-204	417	9.81	
HP	1162	19	-36	249	738	0	4	335	6.10	
J&K	1600	100	-180	376	1369	0	51	496	10.05	
Chandigarh	194	0	-12	-10	93	0	-7	-31	-0.35	
Total	32036	3746	-291	-324	25180	300	-791	-442	-2.49	

* 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)	Schedule Net MU	UI [OG:(+ve), UG: (-ve)]	
								UI Net MU	UI Net MU
A. NTPC									
Singrauli STPS	2000	1947	2102	2037	46.33	1931	46.72	-0.39	
Rihand I STPS	1000	940	1017	963	22.48	937	22.56	-0.08	
Rihand II STPS	1000	975	1040	962	23.08	962	23.40	-0.32	
Rihand III STPS	500	295	336	349	6.97	290	7.07	-0.10	
Dadri I STPS	840	810	870	625	17.46	727	17.67	-0.22	
Dadri II STPS	980	975	1025	818	21.94	914	22.80	-0.86	
Unchahar I TPS	420	407	438	311	9.11	380	9.18	-0.07	
Unchahar II TPS	420	405	438	308	9.00	375	9.09	-0.10	
Unchahar III TPS	210	202	216	159	4.51	188	4.56	-0.05	
ISTPP (Jhajhar)	1500	940	804	656	17.30	721	17.62	-0.32	
Dadri GPS	830	844	417	345	9.37	390	10.88	-1.51	
Anta GPS	419	398	281	201	5.95	248	6.14	-0.18	
Auraiya GPS	663	664	321	254	7.21	300	7.98	-0.77	
Sub Total (A)	10782	9801	9305	7988	200.69	8362	205.67	-4.98	
B. NPC									
NAPS	440	284	320	327	6.84	285	6.82	0.03	
RAPS- B	440	208	233	235	4.99	208	5.00	-0.02	
RAPS- C	440	435	473	475	10.18	424	10.44	-0.26	
Sub Total (B)	1320	927	1026	1037	22.01	917	22.26	-0.25	
C. NHPC									
Chamera I HPS	540	550	540	0	1.85	77	1.80	0.05	
Chamera II HPS	300	303	199	0	1.64	68	1.63	0.01	
Chamera III HPS	231	231	158	0	0.90	37	0.86	0.04	
Bairasuil HPS	180	120	20	0	0.54	22	0.53	0.00	
Salai-HPS	690	151	253	70	3.26	136	3.23	0.02	
Tanakpur-HPS	94	33	44	25	0.77	32	0.79	-0.02	
Uri-HPS	480	102	209	39	2.50	104	2.34	0.16	
Dhauliganga-HPS	280	185	141	0	1.16	48	1.18	-0.03	
Dulhasi-HPS	390	388	240	0	2.91	121	2.79	0.12	
Sewa-II HPS	120	119	96	0	0.21	9	0.21	0.00	
Sub Total (C)	3305	2181	1900	134	15.73	656	15.37	0.37	
D.NJPC									
Nathpa Jhakri	1500	1605	1266	0	7.25	302	7.20	0.05	
Sub Total (D)	1500	1605	1266	0	7.25	302	7.20	0.05	
E. THDC									
Tehri HPS	1000	1050	922	0	8.14	339	8.00	0.14	
Koteshwar HPS	400	100	102	91	2.51	105	2.40	0.11	
Sub Total (E)	1400	1150	1024	91	10.65	444	10.40	0.25	
F. BBMB									
Bhakra HPS	1480	632	1152	405	15.76	657	15.18	0.58	
Dehar HPS	990	128	495	0	3.28	137	3.08	0.20	
Pong HPS	396	298	366	186	7.46	311	5.01	2.45	
Sub Total (F)	2866	1058	2013	591	26.50	1104	23.26	3.24	
G. IPP(s)/JV(s)									
ADHPL HPS(IPP)	192	0	0	0	0.51	21	0.52	-0.01	
KWHEP HPS(IPP)	1000	0	140	0	3.88	162	3.84	0.04	
Malana Stg-II HPS	100	0	25	0	0.22	9	0.18	0.03	
Shree Cement TPS	300	0	286	187	6.44	269	6.34	0.10	
Budhil HPS(IPP)	70	0	0	0	0.00	0	0.15	-0.15	
Sub Total (G)	1662	0	451	187	11.04	460	11.04	0.00	
H. Total Regional Entities (A-G)	22836	16723	16985	10028	293.87	12244	295.20	-1.33	

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	1060	980	23.15	964
	Guru Nanak Dev TPS(Bhatinda)	440	225	215	4.68	195
	Guru Hargobind Singh TPS(L.mbt)	920	752	492	14.64	610
	Thermal (Total)	2620	2037	1687	42.47	1769
	Total Hydro	1148	475	284	9.86	411
	Total Punjab	3768	2512	1971	52.33	2180
Haryana	Panipat TPS	1367	917	690	20.25	844
	DCRTPP (Yamuna nagar)	600	262	275	6.35	264
	Faridabad GPS (NTPC)	432	166	154	3.96	165
	RGTPP (khedar) (IPP)	1200	595	484	13.37	557
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	1320	613	612	14.98	624
	Thermal (Total)	4944	2553	2215	58.91	2454
	Total Hydro	62	26	23	0.64	27
	Total Haryana	5006	2579	2238	59.55	2481
Rajasthan	kota TPS	1240	1185	1182	27.91	1163
	suratgarh TPS	1500	1325	1138	29.96	1248
	Chabra TPS	500	444	384	9.72	405
	Dholpur GPS	330	152	140	3.30	138
	Ramgarh GPS	111	26	62	1.64	68
	RAPS A (NPC)	300	179	179	4.38	183
	Barsingsar (NLC)	250	211	210	4.99	208
	Giral LTPS	250	48	58	0.87	36
	Rajwest LTPS (IPP)	540	365	306	8.30	346
	VSLP LTPS (IPP)	135	0	0	0.00	0
	Thermal (Total)	5156	3935	3659	91.07	3794
	Total Hydro	550	184	207	5.17	216
	Wind power	2191	60	124	1.70	71
	Biomass	91	22	22	0.52	22
	Solar	201	3	0	0.14	6
	Renewable/Others (Total)	2483	82	146	2.36	98
	Total Rajasthan	8189	4201	4012	98.60	4108
	UP	Anpara TPS	1630	566	1508	20.30
Obra TPS		1382	370	468	7.30	304
Paricha TPS		890	484	341	8.80	367
Panki TPS		210	60	55	1.20	50
Harduaganj TPS		665	281	292	5.90	246
Tanda TPS (NTPC)		440	294	338	8.20	342
Roza TPS (IPP)		1200	1107	824	24.33	1014
Anpara-C (IPP)		1200	302	601	9.10	379
Bajaj Energy Pvt.Ltd(IPP) TPS		450	328	362	8.35	348
Thermal (Total)		8067	3792	4789	93.48	3895
Vishnuparyag HPS (IPP)		400	0	0	0.00	0
Other Hydro		527	226	104	3.51	146
Cogeneration		981	600	600	14.40	600
Total UP		9975	4618	5493	111.40	4641
Uttarakhand		Total Hydro	1303	460	321	10.29
	Total Uttarakhand	1303	460	321	10.29	429
Delhi	Raighat TPS	135	109	102	2.49	104
	Delhi Gas Turbine	282	80	74	1.94	81
	Pragati Gas Turbine	330	314	317	7.56	315
	Rithala GPS	108	0	20	0.37	15
	Bawana GPS	677	211	124	3.71	155
	Badarpur TPS (NTPC)	705	385	330	8.16	340
	Thermal (Total)	2237	1099	967	24.24	1010
	Total Delhi	2237	1099	967	24.24	1010
HP	Baspa HPS (IPP)	330	29	0	1.33	55
	Malana HPS (IPP)	86	37	0	0.23	9
	Other Hydro	589	181	109	3.48	145
	Total HP	1005	247	109	5	210
J & K	Baglihar HPS (IPP)	450	294	146	4.26	177
	Other Hydro	323	120	175	3.18	133
	Gas/Diesel/Others	183	0	0	0.00	0
	Total J & K	956	414	321	7.44	310
Total State Control Area Generation		32439	16130	15432	368.87	15369
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			1424	1341	41.40	1725
Total Regional Availability(Gross)		55275	34539	26801	704.13	29339

IV. Total Hydro Generation:

Regional Entities Hydro	10364	6368	816	64.73	2697
State Control Area Hydro	5368	2032	1369	41.95	1748
Total Regional Hydro	15731	8400	2185	106.68	4445

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	-500	-500	0	500	0.00	11.58	-11.58
Gwalior-Agra (D/C)	82	115	457	205	3.70	0.00	3.70
Zerda-Kankroli	-79	-116	118	200	0.00	0.89	-0.89
Zerda-Bhinmal	31	-13	248	124	1.53	0.00	1.53
Malanpur-Auraiya	-98	-83	0	109	0.00	3.50	-3.50
Badod-Kota/Morak	-136	-141	0	164	0.00	2.85	-2.85
Mundra-Mohindergarh(HVDC)	465	398	467	0	10.41	0.00	10.41
Sub Total WR	-235	-340			15.64	18.82	-3.18
Pusauli Bypass	80	-291	216	291	2.21	0.80	1.41
MZP- GKP (D/C)	376	590	604	0	11.74	0.00	11.74
Patna-Balia(D/C)	693	624	882	0	16.68	0.00	16.68
B'Sharif-Balia (D/C)	281	305	454	0	7.68	0.00	7.68
Barh - Balia(D/C)	0	0	0	0	0.00	0.00	0.00
Pusauli-Balia	-27	188	188	29	0.73	0.00	0.73
Gaya-Fatehpur (765 Kv)	167	199	259	0	4.45	0.00	4.45
Pusauli-Sahupuri	126	98	162	0	2.75	0.00	2.75
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-37	-32	0	48	0.00	0.85	-0.85
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sub Total ER	1659	1681			46.23	1.65	44.58
Total IR Exch	1424	1341			61.87	20.47	41.40

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
41.73	0.46	42.19	9.74	-24.46	0.00	3.72	-3.08	3.20
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
48.85	-5.77	43.08	44.58	-3.18	41.40	-4.27	2.59	-1.68

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	0.80	80.60	79.80	53.20	19.40

<----- 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				
50.53	3.12	49.66	16.28	50.03	0.33	0.18	2029.00	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	405	0:00	0	17:59	1.0	1.0	0.0	0.0
Gorakhpur	400	429	4:38	412	7:46	0.0	0.0	47.7	0.0
Bareilly	400	418	3:06	400	7:25	0.0	0.0	0.0	0.0
Kanpur	400	416	3:08	398	7:21	0.0	0.0	0.0	0.0
Dadri	400	421	4:00	403	10:11	0.0	0.0	0.9	0.0
Ballabhgarh	400	426	4:00	405	9:44	0.0	0.0	23.2	0.0
Bawana	400	425	4:01	408	9:28	0.0	0.0	28.7	0.0
Bassi	400	432	4:00	400	9:41	0.0	0.0	21.7	0.6
Hissar	400	413	4:00	396	8:41	0.0	0.0	0.0	0.0
Moga	400	417	13:03	395	9:04	0.0	0.0	0.0	0.0
Abdullapur	400	428	3:11	299	17:18	0.0	0.0	41.1	0.0
Nalagarh	400	424	13:02	405	8:42	0.0	0.0	9.0	0.0
Kishenpur	400	419	13:03	389	18:07	0.0	0.1	0.0	0.0
Wagoora	400	403	13:04	364	18:07	44.4	70.7	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	498.31	1029.80	505.58	1339.30	195.36	496.59
Pong	426.72	384.05	413.83	633.63	416.09	718.14	67.96	401.48
Tehri	829.79	740.04	818.80	975.00	818.65	982.26	52.44	124.00
Koteshwar	612.50	598.50	608.15	3.76	NA	NA	124.00	160.00
Chamera-I	760.00	748.75	NA	NA	NA	NA	58.35	52.20
Rihand	268.22	252.98	262.46	500.10	264.14	617.70	NA	NA
RPS	352.80	343.81	349.22	NA	NA	NA	NA	NA
Jawahar Sagar	298.70	295.78	297.27	NA	NA	NA	NA	NA
RSD	527.91	487.91	519.27	NA	515.67	NA	54.14	166.08

* NA: Not Available

IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

XI. Weather Conditions For 12.12.2012 :

Light fog in Eastern U.P.

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 : 12.12.2012

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER