

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरसिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 16.12.2012

Date of Reporting : 17.12.2012

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
31875	2622	34497	50.01	25654	0	25654	50.25	680.3	35.40

* 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	43.17	9.46		52.63	30.03	31.27	1.24	83.90	1.80
Haryana	57.08	0.55		57.64	35.41	38.79	3.38	96.42	2.50
Rajasthan	85.21	4.66	11.01	100.88	66.61	62.86	-3.75	163.74	0.00
Delhi	22.72			22.72	31.96	30.20	-1.76	52.92	0.06
UP	105.15	4.28	14.40	123.83	72.94	70.26	-2.68	194.09	28.65
Uttarakhand		8.62		8.62	18.12	19.50	1.38	28.12	0.45
HP		4.81		4.81	17.81	17.85	0.04	22.66	0.00
J & K		7.45	0.00	7.45	28.94	27.99	-0.96	35.44	1.70
Chandigarh				0.00	3.37	3.02	-0.35	3.02	0.24
Total	313.33	39.83	25.41	378.57	305.19	301.74	-3.45	680.30	35.40

* 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	4353	600	98	-214	3043	0	94	53	-5.67	
Haryana	4871	0	179	-116	3667	0	84	-40	-1.60	
Rajasthan	7165	0	-368	476	6511	0	-93	583	28.19	
Delhi	2733	10	25	-1104	1274	0	-42	-2227	-38.45	
UP	8385	1910	-256	-139	7880	0	-35	-113	-5.58	
Uttarakhand	1417	0	34	378	1002	0	97	274	7.83	
HP	1145	2	-93	251	750	0	57	337	6.42	
J&K	1647	100	-334	381	1438	0	-66	501	9.21	
Chandigarh	159	0	-34	-10	90	0	-9	-31	-0.49	
Total	31875	2622	-748	-96	25654	0	87	-664	-0.14	

* 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	2070	2080	46.63	1943	46.72	-0.09
Rihand I STPS	1000	950	1025	1023	22.67	944	22.80	-0.13
Rihand II STPS	1000	975	1016	1026	23.06	961	23.28	-0.22
Rihand III STPS	500	340	350	360	8.04	335	8.13	-0.09
Dadri I STPS	840	810	833	632	17.75	740	18.03	-0.27
Dadri II STPS	980	975	877	708	20.05	835	21.67	-1.62
Unchahar I TPS	420	407	379	350	8.91	371	9.03	-0.12
Unchahar II TPS	420	405	353	310	8.47	353	8.61	-0.13
Unchahar III TPS	210	202	185	164	4.33	180	4.41	-0.08
ISTPP (Jhajhar)	1500	940	788	461	13.74	572	15.71	-1.98
Dadri GPS	830	844	355	314	8.23	343	8.35	-0.12
Anta GPS	419	284	155	168	4.26	177	4.40	-0.15
Auraiya GPS	663	664	243	259	6.14	256	5.88	0.26
Sub Total (A)	10782	9743	8629	7855	192.26	8011	197.02	-4.76
B. NPC								
NAPS	440	284	320	319	6.79	283	6.82	-0.02
RAPS- B	440	211	232	234	5.01	209	5.06	-0.05
RAPS- C	440	435	467	471	10.12	422	10.44	-0.32
Sub Total (B)	1320	930	1019	1024	21.93	914	22.32	-0.39
C. NHPC								
Chamera I HPS	540	550	360	0	1.81	76	1.70	0.11
Chamera II HPS	300	303	201	19	1.42	59	1.42	0.00
Chamera III HPS	231	189	69	0	0.74	31	0.75	-0.01
Bairasuil HPS	180	182	20	0	0.67	28	0.62	0.05
Salai-HPS	690	147	228	100	3.34	139	3.50	-0.16
Tanakpur-HPS	94	34	57	24	0.84	35	0.82	0.02
Uri-HPS	480	113	236	47	3.14	131	2.77	0.37
Dhauliganga-HPS	280	140	131	0	1.44	60	1.48	-0.04
Dulhasi-HPS	390	388	356	0	2.91	121	3.00	-0.09
Sewa-II HPS	120	119	98	0	0.52	22	0.52	0.00
Sub Total (C)	3305	2165	1756	190	16.83	701	16.59	0.24
D. NJPC								
Nathpa Jhakri	1500	1605	985	0	7.12	297	7.07	0.05
Sub Total (D)	1500	1605	985	0	7.12	297	7.07	0.05
E. THDC								
Tehri HPS	1000	1050	754	0	6.70	279	6.50	0.20
Koteswar HPS	400	100	102	101	2.38	99	2.40	-0.02
Sub Total (E)	1400	1150	856	101	9.07	378	8.90	0.17
F. BBMB								
Bhakra HPS	1480	518	1026	402	12.71	530	12.43	0.28
Dehar HPS	990	152	495	0	3.73	155	3.64	0.09
Pong HPS	396	245	366	126	6.04	252	5.01	1.03
Sub Total (F)	2866	915	1887	528	22.48	937	21.08	1.40
G. IPP(s)/JV(s)								
ADHPL HPS(IPP)	192	0	0	0	0.48	20	0.52	-0.04
KWHEP HPS(IPP)	1000	0	140	0	3.91	163	3.95	-0.04
Malana Stg-II HPS	100	0	24	0	0.20	8	0.17	0.03
Shree Cement TPS	300	0	97	113	2.67	111	2.88	-0.21
Budhil HPS(IPP)	70	0	0	0	0.00	0	0.15	-0.15
Sub Total (G)	1662	0	261	113	7.25	302	7.67	-0.42
H. Total Regional Entities (A-G)	22836	16508	15393	9811	276.95	11539	280.65	-3.71

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	1260	870	24.13	1005	
	Guru Nanak Dev TPS(Bhatinda)	440	105	95	2.05	85	
	Guru Hargobind Singh TPS(L.mbt)	920	708	702	17.00	708	
	Thermal (Total)	2620	2073	1667	43.17	1799	
	Total Hydro	1148	417	388	9.46	394	
	Total Punjab	3768	2490	2055	52.63	2193	
Haryana	Panipat TPS	1367	1260	1006	24.96	1040	
	DCRTPP (Yamuna nagar)	600	0	0	0.00	0	
	Faridabad GPS (NTPC)	432	167	166	4.20	175	
	RGTPP (khedar) (IPP)	1200	586	593	12.96	540	
	Magnum Diesel (IPP)	25	0	0	0.00	0	
	Jhajjar(CLP)	1320	728	461	14.96	623	
	Thermal (Total)	4944	2741	2226	57.08	2378	
	Total Hydro	62	22	22	0.55	23	
	Total Haryana	5006	2763	2248	57.64	2401	
Rajasthan	kota TPS	1240	1066	1076	26.29	1095	
	suratgarh TPS	1500	1125	1137	27.21	1134	
	Chabra TPS	500	395	389	9.33	389	
	Dholpur GPS	330	138	147	3.40	142	
	Ramgarh GPS	111	40	39	1.06	44	
	RAPS A (NPC)	300	197	197	4.33	180	
	Barsingsar (NLC)	250	104	106	2.38	99	
	Giral LTPS	250	0	0	0.00	0	
	Rajwest LTPS (IPP)	540	482	473	11.21	467	
	VSLP LTPS (IPP)	135	0	0	0.00	0	
	Thermal (Total)	5156	3547	3564	85.21	3550	
	Total Hydro	550	185	161	4.66	194	
	Wind power	2191	605	261	10.27	428	
	Biomass	91	27	27	0.65	27	
	Solar	201	2	0	0.10	4	
	Renewable/Others (Total)	2483	632	288	11.01	459	
	Total Rajasthan	8189	4364	4013	100.88	4203	
	UP	Anpara TPS	1630	1382	1365	32.30	1346
		Obra TPS	1382	313	323	7.70	321
		Paricha TPS	890	545	605	13.90	579
Panki TPS		210	50	63	1.40	58	
Harduaganj TPS		665	229	223	5.30	221	
Tanda TPS (NTPC)		440	297	295	7.15	298	
Roza TPS (IPP)		1200	835	849	20.75	865	
Anpara-C (IPP)		1200	360	350	8.48	353	
Bajaj Energy Pvt.Ltd(IPP) TPS		450	274	363	8.17	340	
Thermal (Total)		8067	4285	4436	105.15	4381	
Vishnuparyag HPS (IPP)		400	0	0	0.00	0	
Other Hydro		527	173	185	4.28	178	
Cogeneration		981	600	600	14.40	600	
Total UP		9975	5058	5221	123.83	5159	
Uttarakhand		Total Hydro	1303	446	277	8.62	359
	Total Uttarakhand	1303	446	277	8.62	359	
Delhi	Raighat TPS	135	105	105	2.43	101	
	Delhi Gas Turbine	282	161	157	2.43	101	
	Pragati Gas Turbine	330	0	323	5.26	219	
	Rithala GPS	108	0	0	0.00	0	
	Bawana GPS	677	211	126	4.40	183	
	Badarpur TPS (NTPC)	705	350	320	8.20	342	
	Thermal (Total)	2237	827	1031	22.72	947	
	Total Delhi	2237	827	1031	22.72	947	
HP	Baspa HPS (IPP)	330	60	0	1.09	45	
	Malana HPS (IPP)	86	38	0	0.22	9	
	Other Hydro	589	174	116	3.49	146	
	Total HP	1005	272	116	5	200	
J & K	Baglihar HPS (IPP)	450	146	136	4.27	178	
	Other Hydro	323	120	175	3.18	133	
	Gas/Diesel/Others	183	0	0	0.00	0	
	Total J & K	956	266	311	7.45	310	
Total State Control Area Generation		32439	16486	15272	378.57	15774	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			1390	1418	42.61	1775	
Total Regional Availability(Gross)		55275	33269	26501	698.12	29088	

IV. Total Hydro Generation:

Regional Entities Hydro	10364	5648	819	60.09	2504
State Control Area Hydro	5368	1781	1460	39.83	1660
Total Regional Hydro	15731	7429	2279	99.92	4163

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	-400	0	400	0.00	9.57			-9.57
Gwalior-Agra (D/C)	0	86	423	98	2.49	0.00			2.49
Zerda-Kankroli	-76	-98	33	179	0.00	1.94			-1.94
Zerda-Bhinmal	-3	-3	147	111	0.00	0.59			-0.59
Malanpur-Auraiya	-194	-148	0	194	0.00	3.13			-3.13
Badod-Kota/Morak	-91	-128	0	192	0.00	2.60			-2.60
Mundra-Mohindergarh(HVDC)	735	666	844	0	19.17	0.00			19.17
Sub Total WR	-29	-25			21.66	17.83			3.83
Pusauli Bypass	50	50	50	0	1.22	0.00			1.22
MZP- GKP (D/C)	342	389	598	0	9.96	0.00			9.96
Patna-Balia(D/C)	681	658	873	0	16.99	0.00			16.99
B'Sharif-Balia (D/C)	181	179	347	0	4.74	0.00			4.74
Barh - Balia(D/C)	0	0	0	0	0.00	0.00			0.00
Pusauli-Balia	-70	-52	48	86	0.00	0.49			-0.49
Gaya-Fatehpur (765 Kv)	133	128	265	0	4.11	0.00			4.11
Pusauli-Sahupuri	139	123	150	0	3.10	0.00			3.10
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	1419	1443			40.12	1.34			38.78
Total IR Exch	1390	1418			61.78	19.17			42.61

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
39.56	0.43	39.98	10.22	-21.40	-0.04	5.93	-3.60	3.88
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
46.56	-3.99	42.57	38.78	3.83	42.61	-7.79	7.82	0.04

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	0.20	81.00	80.80	63.80	19.00

<----- 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				
50.56	23.59	49.68	8.23	50.06	0.26	0.15	50.33	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	407	3:37	400	9:08	0.0	0.0	0.0	0.0
Gorakhpur	400	434	5:21	420	8:28	0.0	0.0	94.4	11.3
Bareilly	400	424	3:37	406	11:06	0.0	0.0	21.1	0.0
Kanpur	400	420	3:36	398	9:11	0.0	0.0	0.0	0.0
Dadri	400	424	3:33	406	9:13	0.0	0.0	21.3	0.0
Ballabhgarh	400	429	3:34	407	9:41	0.0	0.0	55.7	0.0
Bawana	400	428	3:37	410	9:17	0.0	0.0	58.7	0.0
Bassi	400	436	3:36	396	9:41	0.0	0.0	40.9	13.5
Hissar	400	419	3:22	399	9:11	0.0	0.0	0.0	0.0
Moga	400	421	3:37	397	9:39	0.0	0.0	0.1	0.0
Abdullapur	400	428	3:36	411	11:04	0.0	0.0	62.4	0.0
Nalagarh	400	427	3:37	411	9:12	0.0	0.0	46.6	0.0
Kishenpur	400	416	0:42	394	9:39	0.0	0.0	0.0	0.0
Wagoora	400	400	4:10	376	9:51	10.9	41.8	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	497.43	994.96	504.72	1298.95	168.32	337.20
Pong	426.72	384.05	412.85	588.94	415.28	680.86	84.89	377.58
Tehri	829.79	740.04	817.15	942.25	818.65	982.26	52.46	150.00
Koteshwar	612.50	598.50	610.50	4.69	NA	NA	150.00	158.00
Chamera-I	760.00	748.75	NA	NA	NA	NA	48.22	49.10
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 16.12.2012 :

1. Dense fog in Eastern UP.

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 : 16.12.2012

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER