

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरसिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 19.10.2012

Date of Reporting : 20.10.2012

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
33034	3072	36107	50.12	29207	1446	30652	50.21	731.8	72.50

* 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	49.79	8.64		58.43	44.61	44.57	-0.04	103.00	3.56
Haryana	60.10	0.81		60.91	50.17	50.00	-0.17	110.91	3.26
Rajasthan	84.06	1.00	4.20	89.26	63.86	65.63	1.77	154.88	3.60
Delhi	27.39			27.39	44.48	41.35	-3.13	68.73	0.10
UP	99.50	9.56	2.40	111.47	100.82	100.53	-0.29	212.00	56.71
Uttarakhand		11.49		11.49	12.88	15.69	2.81	27.17	2.60
HP		10.07		10.07	12.30	12.15	-0.14	22.22	0.97
J & K		10.19	0.00	10.19	19.65	19.02	-0.63	29.21	1.70
Chandigarh				0.00	4.05	3.68	-0.37	3.68	0.00
Total	320.83	51.77	6.60	379.19	352.80	352.61	-0.19	731.80	72.50

* 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	4957	425	102	-5	4057	0	-89	272	4.62	
Haryana	4889	362	-5	129	4316	37	-57	150	2.80	
Rajasthan	6446	49	107	82	6461	129	56	1391	22.02	
Delhi	3570	21	-63	-446	2124	0	-245	-1152	-16.53	
UP	8642	1973	-205	928	9141	1280	-91	1041	18.95	
Uttarakhand	1642	80	172	58	1081	0	257	135	3.63	
HP	1094	63	-104	-282	778	0	6	-14	-2.71	
J&K	1597	100	-118	-84	1142	0	53	-46	-1.31	
Chandigarh	197	0	-20	-9	106	0	-9	0	0.26	
Total	33034	3072	-135	370	29207	1446	-120	1777	31.73	

* 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	1423	1562	1542	34.52	1438	34.14	0.38	
Rihand I STPS	1000	935	1018	1012	22.43	935	22.44	-0.01	
Rihand II STPS	1000	970	1039	1029	23.38	974	23.28	0.10	
Rihand III STPS	500	0	0	0	0.00	0		0.00	
Dadri I STPS	840	810	873	859	19.21	800	19.44	-0.23	
Dadri II STPS	980	485	442	507	11.46	478	11.64	-0.18	
Unchahar I TPS	420	404	439	409	9.51	396	9.70	-0.19	
Unchahar II TPS	420	404	437	415	9.55	398	9.70	-0.15	
Unchahar III TPS	210	202	217	207	4.80	200	4.85	-0.05	
ISTPP (Jhajihar)	1000	950	739	661	17.20	717	18.42	-1.22	
Dadri GPS	830	806	654	658	14.75	615	14.93	-0.18	
Anta GPS	419	402	263	256	6.20	258	6.40	-0.20	
Auraiya GPS	663	637	462	378	9.95	414	10.17	-0.22	
Sub Total (A)	10282	8428	8145	7933	182.94	7623	185.09	-2.15	
B. NPC									
NAPS	440	272	308	312	6.59	275	6.53	0.06	
RAPS- B	440	412	456	456	9.92	413	9.89	0.03	
RAPS- C	440	430	465	469	10.01	417	10.32	-0.31	
Sub Total (B)	1320	1114	1229	1237	26.52	1105	26.74	-0.22	
C. NHPC									
Chamera I HPS	540	535	540	0	2.93	122	3.03	-0.10	
Chamera II HPS	300	300	298	0	2.55	106	2.55	0.00	
Chamera III HPS	231	154	158	0	1.64	69	1.64	0.01	
Bairasuil HPS	180	182	120	0	0.93	39	0.92	0.01	
Salai-HPS	690	218	329	209	5.01	209	4.95	0.06	
Tanakpur-HPS	94	75	79	58	1.72	72	1.79	-0.06	
Uri-HPS	480	178	479	473	11.20	467	4.26	6.95	
Dhauliganga-HPS	280	288	240	5	2.50	104	2.54	-0.04	
Dulhasti-HPS	390	387	403	10	5.46	228	5.39	0.07	
Sewa-II HPS	120	80	84	0	0.43	18	0.40	0.03	
Sub Total (C)	3305	2395	2730	755	34.37	1432	27.46	6.91	
D.NJPC									
Nathpa Jhakri	1500	1605	1519	0	12.98	541	13.00	-0.02	
Sub Total (D)	1500	1605	1519	0	12.98	541	13.00	-0.02	
E. THDC									
Tehri HPS	1000	1050	783	0	4.20	175	4.00	0.20	
Koteshwar HPS	400	195	197	0	1.35	56	1.30	0.05	
Sub Total (E)	1400	1245	980	0	5.55	231	5.30	0.25	
F. BBMB									
Bhakra HPS	1480	357	573	308	8.89	370	8.57	0.32	
Dehar HPS	990	278	495	165	6.63	276	6.66	-0.03	
Pong HPS	396	290	306	246	6.52	272	5.01	1.51	
Sub Total (F)	2866	925	1374	719	22.04	918	20.24	1.80	
G. IPP(s)/JV(s)									
ADHPL HPS(IPP)	192	0	76	48	1.03	43	0.99	0.04	
KWHEP HPS(IPP)	1000	0	600	152	6.79	283	6.85	-0.06	
Malana Stg-II HPS	100	0	17	20	0.46	19	0.42	0.04	
Shree Cement TPS	300	0	271	128	5.99	250	6.62	-0.63	
Budhil HPS(IPP)	70	0	10	10	0.34	14	0.37	-0.04	
Sub Total (G)	1662	0	974	358	14.61	609	15.25	-0.65	
H. Total Regional Entities (A-G)	22336	15712	16951	11002	299.00	12459	293.08	5.92	

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	1048	1052	23.11	963	
	Guru Nanak Dev TPS(Bhatinda)	440	268	240	5.39	225	
	Guru Hargobind Singh TPS(L.mbt)	920	968	962	21.29	887	
	Thermal (Total)	2620	2284	2254	49.79	2074	
	Total Hydro	1148	437	242	8.64	360	
	Total Punjab	3768	2721	2496	58.43	2435	
Haryana	Panipat TPS	1367	1089	1100	26.16	1090	
	DCRTPP (Yamuna nagar)	600	0	0	0.00	0	
	Faridabad GPS (NTPC)	432	156	154	3.84	160	
	RGTPP (khedar) (IPP)	1200	827	803	20.00	833	
	Magnum Diesel (IPP)	25	0	0	0.00	0	
	Jhajjar(CLP)	1320	435	358	10.09	421	
	Thermal (Total)	4944	2507	2415	60.10	2504	
	Total Hydro	62	35	30	0.81	34	
	Total Haryana	5006	2542	2445	60.91	2538	
Rajasthan	kota TPS	1240	1060	1058	25.56	1065	
	suratgarh TPS	1500	1213	1116	26.98	1124	
	Chabra TPS	500	442	379	9.62	401	
	Dholpur GPS	330	209	139	3.43	143	
	Ramgarh GPS	111	77	77	1.97	82	
	RAPS A (NPC)	300	173	173	4.20	175	
	Barsingar (NLC)	250	103	104	2.31	96	
	Giral LTPS	250	0	0	0.00	0	
	Rajwest LTPS (IPP)	540	473	365	9.99	416	
	VSLP LTPS (IPP)	135	0	0	0.00	0	
	Thermal (Total)	5156	3750	3411	84.06	3502	
	Total Hydro	550	0	0	1.00	42	
	Wind power	1843	161	122	2.65	110	
	Biomass	91	37	37	0.39	16	
	Solar	128	0	0	0.17	7	
	Renewable/Others (Total)	2062	198	159	4.20	175	
	Total Rajasthan	7767	3948	3570	89.26	3719	
	UP	Anpara TPS	1630	999	931	23.30	971
		Obra TPS	1382	419	437	10.60	442
		Paricha TPS	890	419	446	10.40	433
Panki TPS		210	135	131	3.30	138	
Harduaganj TPS		665	180	180	3.50	146	
Tanda TPS (NTPC)		440	400	393	9.79	408	
Roza TPS (IPP)		1200	1097	1099	26.29	1096	
Anpara-C (IPP)		1200	275	448	6.39	266	
Bajaj Energy Pvt.Ltd(IPP) TPS		450	258	230	5.94	247	
Thermal (Total)		8067	4182	4295	99.50	4146	
Vishnuparyag HPS (IPP)		400	167	168	4.06	169	
Other Hydro		527	248	0	5.50	229	
Cogeneration		981	100	100	2.40	100	
Total UP		9975	4697	4563	111.47	4475	
Uttarakhand		Total Hydro	1303	713	380	11.49	479
	Total Uttarakhand	1303	713	380	11.49	479	
Delhi	Raighat TPS	135	109	57	2.21	92	
	Delhi Gas Turbine	282	156	157	3.83	160	
	Pragati Gas Turbine	330	302	312	7.12	297	
	Rithala GPS	108	39	21	0.72	30	
	Bawana GPS	677	0	0	0.00	0	
	Badarpur TPS (NTPC)	705	675	595	13.51	563	
	Thermal (Total)	2237	1281	1142	27.39	1141	
	Total Delhi	2237	1281	1142	27.39	1141	
HP	Baspa HPS (IPP)	330	30	151	1.91	79	
	Malana HPS (IPP)	86	9	0	0.50	21	
	Other Hydro	589	342	310	7.67	320	
	Total HP	1005	381	461	10	420	
J & K	Baglihar HPS (IPP)	450	444	254	6.64	277	
	Other Hydro	323	140	175	3.55	148	
	Gas/Diesel/Others	183	0	0	0.00	0	
	Total J & K	956	584	429	10.19	425	
Total State Control Area Generation		32017	16867	15486	379.19	15631	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			1120	3425	69.54	2898	
Total Regional Availability(Gross)		54353	34938	29913	747.74	30987	

IV. Total Hydro Generation:

Regional Entities Hydro	10364	7296	1694	83.22	3467
State Control Area Hydro	5368	2398	1542	51.77	1988
Total Regional Hydro	15731	9694	3236	134.98	5455

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	50	150	150	0	2.18	0.00	2.18	0.00	
Gwalior-Agra (D/C)	-124	453	744	170	8.42	0.00	8.42	0.00	
Zerda-Kankroli	-250	26	26	250	0.00	1.87	-1.87	0.00	
Zerda-Bhinmal	-181	111	152	214	0.16	0.00	0.16	0.00	
Malanpur-Auraiya	-247	-125	0	247	0.00	2.85	-2.85	0.00	
Badod-Kota/Morak	-140	0	70	154	0.00	1.03	-1.03	0.00	
Mundra-Mohindergarh(HVDC)	711	741	743	0	17.45	0.00	17.45	0.00	
Sub Total WR	-181	1356			28.21	5.75		22.46	
Pusauli Bypass	100	100	100	0	2.44	0.00	2.44	0.00	
MZP- GKP (D/C)	366	650	800	0	14.92	0.00	14.92	0.00	
Patna-Balia(D/C)	214	450	509	0	7.09	0.00	7.09	0.00	
B'Sharif-Balia (D/C)	187	295	627	0	8.31	0.00	8.31	0.00	
Barh - Balia(D/C)	258	275	396	0	6.87	0.00	6.87	0.00	
Pusauli-Balia	-47	-15	81	49	0.11	0.00	0.11	0.00	
Gaya-Fatehpur (765 Kv)	116	232	285	0	5.17	0.00	5.17	0.00	
Pusauli-Sahupuri	149	116	159	0	3.13	0.00	3.13	0.00	
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00	0.00	
Son Ngr-Rihand	-42	-34	0	46	0.00	0.97	-0.97	0.00	
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00	0.00	
Sub Total ER	1301	2069			48.04	0.97		47.08	
Total IR Exch	1120	3425			76.26	6.72		69.54	

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
37.54	1.45	38.99	-4.70	-3.81	20.48	4.97	6.98	-6.90
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
61.75	9.43	71.18	47.08	22.46	69.54	-14.67	13.04	-1.64

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	5.20	96.20	91.00	40.30	3.80
Frequency (Hz)				Average Frequency	Frequency Variation Index	Std. Dev.	Frequency in 15 Min Block	
Maximum		Minimum		Hz			MAX (Hz)	MIN (Hz)
50.33	6.21	49.50	12.48	49.96	0.23	0.15	50.33	49.78

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	413	20:46	402	9:27	0.0	0.0	0.0	0.0
Gorakhpur	400	436	7:59	410	11:55	0.0	0.0	70.3	12.2
Bareilly	400	421	20:43	397	11:33	0.0	0.0	0.8	0.0
Kanpur	400	419	1:47	403	11:23	0.0	0.0	0.0	0.0
Dadri	400	420	1:49	401	11:19	0.0	0.0	0.0	0.0
Ballabhgarh	400	425	1:48	405	11:33	0.0	0.0	37.2	0.0
Bawana	400	423	1:47	405	11:23	0.0	0.0	20.0	0.0
Bassi	400	430	20:45	400	9:46	0.0	0.0	36.6	0.0
Hissar	400	414	20:42	397	10:59	0.0	0.0	0.0	0.0
Moga	400	420	20:46	400	10:13	0.0	0.0	0.0	0.0
Abdullapur	400	420	1:25	403	11:27	0.0	0.0	0.0	0.0
Nalagarh	400	422	0:37	407	11:21	0.0	0.0	4.3	0.0
Kishenpur	400	420	16:33	397	10:14	0.0	0.0	0.0	0.0
Wagoora	400	416	16:38	382	18:48	0.0	9.5	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	503.84	1258.87	510.34	1560.04	296.73	241.06
Pong	426.72	384.05	421.23	946.20	422.29	990.81	92.28	403.97
Tehri	829.79	740.04	824.76	1102.66	818.65	982.26	90.37	93.00
Koteshwar	612.50	598.50	608.70	3.98	NA	NA	122.00	121.00
Chamera-I	760.00	748.75	NA	NA	NA	NA	105.76	89.93
Rihand	268.22	252.98	263.93	540.00	265.48	648.00	NA	NA
RPS	352.80	343.81	352.89	NA	350.35	NA	NA	50.23
Jawahar Sagar	298.70	295.78	297.79	NA	298.64	NA	NA	86.71
RSD	527.91	487.91	520.64	NA	522.18	NA	72.86	73.17

* NA: Not Available

IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

XI. Weather Conditions For 19.10.2012 :

Normal

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 : 19.10.2012

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER