

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरसिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 20.10.2012

Date of Reporting : 21.10.2012

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
32719	3052	35771	50.26	29880	874	30754	50.21	747.9	52.24

* 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	50.03	8.33		58.36	42.22	42.36	0.14	100.73	3.37
Haryana	56.55	0.80		57.35	50.50	50.99	0.49	108.34	3.15
Rajasthan	85.75	1.49	8.35	95.59	61.28	61.11	-0.16	156.70	0.88
Delhi	25.96			25.96	43.03	39.62	-3.42	65.58	0.02
UP	112.70	8.87	2.40	123.97	104.28	99.62	-4.66	223.59	40.83
Uttarakhand		18.16		18.16	13.23	15.38	2.15	33.54	2.30
HP		9.78		9.78	13.35	13.09	-0.26	22.87	0.00
J & K		10.19	0.00	10.19	19.58	22.90	3.32	33.09	1.70
Chandigarh				0.00	3.90	3.51	-0.39	3.51	0.00
Total	331.00	57.63	10.75	399.37	351.36	348.58	-2.78	747.95	52.24

* 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	4756	431	-41	72	3884	0	106	173	3.64	
Haryana	4813	408	54	68	4237	34	-63	162	2.82	
Rajasthan	6573	0	-155	575	6831	0	-382	1304	19.41	
Delhi	3349	0	-40	-567	2090	0	-158	-1131	-18.65	
UP	8699	2033	-393	167	9695	840	191	1532	21.67	
Uttarakhand	1439	80	230	111	1071	0	95	135	3.65	
HP	1125	0	-125	-206	779	0	31	60	-1.19	
J&K	1773	100	69	-97	1193	0	104	-56	-1.56	
Chandigarh	193	0	-30	-5	99	0	-11	-5	0.16	
Total	32719	3052	-430	116	29880	874	-87	2174	29.94	

* 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	1658	1952	1558	39.93	1664	39.79	0.14
Rihand I STPS	1000	935	1015	1015	22.45	935	22.44	0.01
Rihand II STPS	1000	970	1028	1033	23.32	971	23.28	0.04
Rihand III STPS	500	0	0	0	0.00	0		0.00
Dadri I STPS	840	810	857	860	18.95	789	19.26	-0.31
Dadri II STPS	980	485	507	507	11.54	481	11.63	-0.09
Unchahar I TPS	420	395	381	429	8.73	364	9.44	-0.71
Unchahar II TPS	420	404	411	433	9.52	397	9.64	-0.12
Unchahar III TPS	210	202	207	218	4.73	197	4.83	-0.10
ISTPP (Jhajhar)	1000	950	754	682	16.57	690	17.12	-0.55
Dadri GPS	830	806	599	548	13.50	562	13.61	-0.12
Anta GPS	419	405	234	243	6.06	253	6.09	-0.03
Auraiya GPS	663	642	431	387	9.76	407	9.73	0.03
Sub Total (A)	10282	8662	8376	7913	185.04	7710	186.85	-1.80
B. NPC								
NAPS	440	272	304	318	6.49	270	6.53	-0.04
RAPS- B	440	412	457	457	9.12	380	9.89	-0.77
RAPS- C	440	430	467	468	10.01	417	10.32	-0.31
Sub Total (B)	1320	1114	1228	1243	25.62	1067	26.74	-1.12
C. NHPC								
Chamera I HPS	540	535	540	0	2.95	123	3.15	-0.20
Chamera II HPS	300	300	255	0	2.53	105	2.43	0.10
Chamera III HPS	231	154	142	0	1.64	68	1.66	-0.02
Bairasuil HPS	180	182	182	0	0.10	4	0.89	-0.79
Salai-HPS	690	230	242	226	5.02	209	5.54	-0.52
Tanakpur-HPS	94	75	68	55	1.69	71	1.79	-0.09
Uri-HPS	480	176	306	159	4.26	178	4.25	0.01
Dhauliganga-HPS	280	288	277	5	2.12	88	2.19	-0.07
Dulhasi-HPS	390	376	268	11	4.82	201	5.10	-0.28
Sewa-II HPS	120	80	78	0	0.37	15	0.38	-0.01
Sub Total (C)	3305	2395	2358	456	25.50	1063	27.37	-1.87
D.NJPC								
Nathpa Jhakri	1500	1605	1521	0	11.95	498	12.00	-0.05
Sub Total (D)	1500	1605	1521	0	11.95	498	12.00	-0.05
E. THDC								
Tehri HPS	1000	1050	765	0	4.14	173	4.00	0.14
Koteshwar HPS	400	211	93	0	1.44	60	1.30	0.14
Sub Total (E)	1400	1261	858	0	5.58	233	5.30	0.28
F. BBMB								
Bhakra HPS	1480	357	573	308	8.79	366	8.57	0.22
Dehar HPS	990	245	495	150	6.07	253	5.89	0.18
Pong HPS	396	263	306	246	6.63	276	5.01	1.62
Sub Total (F)	2866	866	1374	704	21.49	895	19.47	2.02
G. IPP(s)/JV(s)								
ADHPL HPS(IPP)	192	0	71	46	1.00	42	0.96	0.04
KWHEP HPS(IPP)	1000	0	700	150	6.16	256	6.61	-0.45
Malana Stg-II HPS	100	0	17	20	0.49	20	0.41	0.07
Shree Cement TPS	300	0	272	265	6.47	269	6.41	0.06
Budhil HPS(IPP)	70	0	35	10	0.48	20	0.51	-0.03
Sub Total (G)	1662	0	1095	491	14.59	608	14.90	-0.31
H. Total Regional Entities (A-G)	22336	15902	16810	10807	289.78	12074	292.63	-2.85

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	1051	1054	23.61	984	
	Guru Nanak Dev TPS(Bhatinda)	440	254	208	4.98	208	
	Guru Hargobind Singh TPS(L.mbt)	920	970	952	21.44	894	
	Thermal (Total)	2620	2275	2214	50.03	2085	
	Total Hydro	1148	283	244	8.33	347	
	Total Punjab	3768	2558	2458	58.36	2432	
Haryana	Panipat TPS	1367	967	965	23.26	969	
	DCRTPP (Yamuna nagar)	600	0	0	0.00	0	
	Faridabad GPS (NTPC)	432	156	154	3.87	161	
	RGTPP (khedar) (IPP)	1200	828	805	19.81	826	
	Magnum Diesel (IPP)	25	0	0	0.00	0	
	Jhajjar(CLP)	1320	372	356	9.61	400	
	Thermal (Total)	4944	2323	2280	56.55	2356	
	Total Hydro	62	33	32	0.80	33	
	Total Haryana	5006	2356	2312	57.35	2390	
Rajasthan	kota TPS	1240	1060	1055	25.18	1049	
	suratgarh TPS	1500	1289	1338	31.04	1293	
	Chabra TPS	500	421	380	9.42	392	
	Dholpur GPS	330	127	127	3.04	127	
	Ramgarh GPS	111	77	77	1.49	62	
	RAPS A (NPC)	300	173	173	4.18	174	
	Barsingar (NLC)	250	103	103	#VALUE!	#VALUE!	
	Giral LTPS	250	0	0	0.00	0	
	Rajwest LTPS (IPP)	540	486	473	11.41	475	
	VSLP LTPS (IPP)	135	0	0	0.00	0	
	Thermal (Total)	5156	3736	3726	85.75	3573	
	Total Hydro	550	75	78	1.49	62	
	Wind power	1843	280	468	5.90	246	
	Biomass	91	35	35	0.84	35	
	Solar	128	0	0	0.11	5	
	Renewable/Others (Total)	2062	315	503	8.35	348	
	Total Rajasthan	7767	4126	4307	95.59	3983	
	UP	Anpara TPS	1630	1156	928	34.50	1438
		Obra TPS	1382	318	498	9.20	383
		Paricha TPS	890	451	440	10.30	429
Panki TPS		210	140	131	3.20	133	
Harduaganj TPS		665	177	145	3.60	150	
Tanda TPS (NTPC)		440	399	400	9.78	407	
Roza TPS (IPP)		1200	1089	1098	26.53	1105	
Anpara-C (IPP)		1200	401	365	9.44	393	
Bajaj Energy Pvt.Ltd(IPP) TPS		450	258	258	6.16	257	
Thermal (Total)		8067	4389	4263	112.70	4696	
Vishnuparyag HPS (IPP)		400	163	168	3.97	165	
Other Hydro		527	155	0	4.90	204	
Cogeneration		981	100	100	2.40	100	
Total UP		9975	4807	4531	123.97	5000	
Uttarakhand		Total Hydro	1303	495	518	18.16	757
	Total Uttarakhand	1303	495	518	18.16	757	
Delhi	Raighat TPS	135	106	103	2.83	118	
	Delhi Gas Turbine	282	159	157	3.95	164	
	Pragati Gas Turbine	330	193	264	5.53	230	
	Rithala GPS	108	0	0	0.00	0	
	Bawana GPS	677	0	0	0.00	0	
	Badarpur TPS (NTPC)	705	645	585	13.65	569	
	Thermal (Total)	2237	1103	1109	25.96	1082	
	Total Delhi	2237	1103	1109	25.96	1082	
HP	Baspa HPS (IPP)	330	28	57	2.01	84	
	Malana HPS (IPP)	86	9	0	0.45	19	
	Other Hydro	589	346	317	7.33	306	
	Total HP	1005	383	374	10	408	
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	16412	16038	399.37	16475	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			1014	4058	70.22	2926	
Total Regional Availability(Gross)		54353	34236	30903	759.36	31475	

IV. Total Hydro Generation:

Regional Entities Hydro	10364	6899	1376	72.17	3007
State Control Area Hydro	5368	2008	1675	57.63	2236
Total Regional Hydro	15731	8907	3051	129.79	5243

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	-100	150	150	100	1.46	0.58	0.88
Gwalior-Agra (D/C)	-74	650	829	74	9.84	0.00	9.84
Zerda-Kankroli	-184	12	44	184	0.00	2.34	-2.34
Zerda-Bhinmal	-127	67	123	209	0.00	0.59	-0.59
Malanpur-Auraiya	-238	-82	0	238	0.00	2.77	-2.77
Badod-Kota/Morak	-160	3	13	176	0.00	1.41	-1.41
Mundra-Mohindergarh(HVDC)	701	704	707	0	16.92	0.00	16.92
Sub Total WR	-182	1504			28.22	7.69	20.53
Pusauli Bypass	-100	100	100	100	1.45	1.14	0.31
MZP- GKP (D/C)	452	820	932	0	15.66	0.00	15.66
Patna-Balia(D/C)	199	345	370	0	7.04	0.00	7.04
B'Sharif-Balia (D/C)	148	467	529	0	9.03	0.00	9.03
Barh - Balia(D/C)	238	412	446	0	8.76	0.00	8.76
Pusauli-Balia	-28	46	146	28	0.80	0.00	0.80
Gaya-Fatehpur (765 Kv)	190	262	315	0	5.59	0.00	5.59
Pusauli-Sahupuri	139	136	168	0	3.45	0.00	3.45
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-42	-34	0	46	0.00	0.97	-0.97
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sub Total ER	1196	2554			51.79	2.11	49.69
Total IR Exch	1014	4058			80.02	9.80	70.22

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
37.39	1.42	38.80	-4.36	-5.15	13.50	11.69	8.08	-8.00
Total IR Schedule (MU)								
Through ER	Through WR Inclds Mndra	Total	Through ER	Through WR	Total	Through ER	Through WR	Total
56.02	14.88	70.89	49.69	20.53	70.22	-6.33	5.65	-0.68

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	0.10	2.70	94.60	92.00	45.60	5.30
Frequency (Hz) <----->								
Maximum		Minimum		Average Frequency (Hz)	Frequency Variation Index	Std. Dev.	Frequency in 15 Min Block	
Freq	Time	Freq	Time				MAX (Hz)	MIN (Hz)
50.48	18.18	49.50	11.09	49.98	0.22	0.15	50.33	49.80

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	411	6:07	0	6:13	0.1	0.1	0.0	0.0
Gorakhpur	400	430	16:43	406	3:47	0.0	0.0	52.1	0.0
Bareilly	400	421	20:49	395	11:50	0.0	0.0	0.4	0.0
Kanpur	400	418	17:31	402	11:08	0.0	0.0	0.0	0.0
Dadri	400	421	20:53	402	11:07	0.0	0.0	0.3	0.0
Ballabhgarh	400	426	20:58	407	11:08	0.0	0.0	24.3	0.0
Bawana	400	424	21:45	407	10:11	0.0	0.0	11.9	0.0
Bassi	400	430	20:42	405	11:09	0.0	0.0	36.4	0.0
Hissar	400	416	20:58	396	11:07	0.0	0.0	0.0	0.0
Moga	400	419	3:34	399	11:08	0.0	0.0	0.0	0.0
Abdullapur	400	420	2:34	405	11:08	0.0	0.0	0.0	0.0
Nalagarh	400	424	2:28	408	11:08	0.0	0.0	15.9	0.0
Kishenpur	400	423	4:04	394	18:35	0.0	0.0	5.5	0.0
Wagoora	400	420	3:34	377	18:35	1.4	6.3	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	503.92	1258.87	510.33	1560.04	294.47	233.73
Pong	426.72	384.05	421.01	931.43	422.15	990.81	99.00	377.01
Tehri	829.79	740.04	824.80	1100.00	818.65	982.26	94.18	99.00
Koteshwar	612.50	598.50	608.55	3.98	NA	NA	90.00	96.00
Chamera-I	760.00	748.75	NA	NA	NA	NA	92.53	80.22
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 20.10.2012 :

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 : 20.10.2012

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER