

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरसिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 21.10.2012

Date of Reporting : 22.10.2012

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
32135	1894	34029	50.32	29274	1865	31139	50.16	722.8	44.58

* 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	50.20	7.46		57.66	40.20	40.44	0.25	98.11	2.26
Haryana	55.91	0.81		56.72	54.27	54.30	0.03	111.02	1.07
Rajasthan	89.37	2.34	6.66	98.37	59.47	61.62	2.15	159.99	1.15
Delhi	24.61			24.61	38.02	35.24	-2.78	59.85	0.02
UP	102.15	8.02	2.40	112.57	103.56	99.36	-4.21	211.93	36.45
Uttarakhand		11.08		11.08	14.03	15.86	1.84	26.95	1.93
HP		9.61		9.61	13.71	12.29	-1.42	21.90	0.00
J & K		10.19	0.00	10.19	20.30	19.76	-0.54	29.95	1.70
Chandigarh				0.00	3.69	3.06	-0.63	3.06	0.00
Total	322.25	49.52	9.06	380.83	347.24	341.93	-5.31	722.76	44.58

* 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	4677	390	26	-71	3705	0	-28	-62	1.00	
Haryana	4831	249	-9	162	4211	0	-75	309	6.12	
Rajasthan	6366	0	-89	397	6731	0	44	923	16.34	
Delhi	3067	0	-154	-496	1976	0	-43	-1125	-18.59	
UP	8845	1075	-319	588	9724	1865	399	1413	20.16	
Uttarakhand	1395	80	234	99	1055	0	42	184	4.00	
HP	1133	0	-95	-173	777	0	16	85	-0.57	
J&K	1652	100	-65	-88	993	0	-119	-41	-0.69	
Chandigarh	170	0	-21	-11	102	0	-13	0	0.11	
Total	32135	1894	-491	408	29274	1865	224	1687	27.89	

* 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	1903	1967	2043	45.77	1907	45.66	0.11
Rihand I STPS	1000	935	1008	1016	22.39	933	22.44	-0.04
Rihand II STPS	1000	970	1021	1039	23.24	968	23.27	-0.03
Rihand III STPS	500	0	0	0	0.00	0	0	0.00
Dadri I STPS	840	810	830	615	15.59	650	15.63	-0.04
Dadri II STPS	980	485	470	506	11.26	469	11.51	-0.26
Unchahar I TPS	420	404	396	412	9.10	379	9.42	-0.32
Unchahar II TPS	420	404	404	373	9.00	375	9.34	-0.34
Unchahar III TPS	210	202	203	191	4.48	187	4.60	-0.12
ISTPP (Jhajjar)	1000	950	666	620	15.72	655	15.48	0.23
Dadri GPS	830	808	400	530	12.24	510	12.23	0.01
Anta GPS	419	405	184	233	5.37	224	5.30	0.07
Auraiya GPS	663	643	305	397	8.66	361	8.86	-0.19
Sub Total (A)	10282	8919	7854	7975	182.82	7617	183.75	-0.93
B. NPC								
NAPS	440	275	307	310	6.54	272	6.60	-0.06
RAPS- B	440	412	457	457	9.93	414	9.89	0.04
RAPS- C	440	430	470	471	10.09	420	10.32	-0.23
Sub Total (B)	1320	1117	1234	1238	26.56	1107	26.81	-0.25
C. NHPC								
Chamera I HPS	540	535	540	0	2.99	124	3.29	-0.31
Chamera II HPS	300	303	259	0	2.10	88	2.61	-0.51
Chamera III HPS	231	154	120	0	1.42	59	1.51	-0.10
Bairasuil HPS	180	182	182	0	0.86	36	0.97	-0.11
Salai-HPS	690	238	354	181	4.88	203	5.67	-0.79
Tanakpur-HPS	94	70	65	50	1.62	68	1.66	-0.04
Uri-HPS	480	183	309	66	4.52	189	4.48	0.04
Dhauliganga-HPS	280	288	288	5	1.76	73	2.05	-0.30
Dulhasi-HPS	390	287	266	0	4.47	186	4.76	-0.30
Sewa-II HPS	120	80	60	0	0.37	15	0.46	-0.10
Sub Total (C)	3305	2319	2443	302	24.98	1041	27.48	-2.49
D. NJPC								
Nathpa Jhakri	1500	1605	1512	0	11.07	461	11.37	-0.29
Sub Total (D)	1500	1605	1512	0	11.07	461	11.37	-0.29
E. THDC								
Tehri HPS	1000	1050	720	0	4.06	169	4.00	0.06
Koteshwar HPS	400	285	252	0	1.95	81	2.00	-0.05
Sub Total (E)	1400	1335	972	0	6.01	251	6.00	0.01
F. BBMB								
Bhakra HPS	1480	355	554	308	8.70	363	8.52	0.18
Dehar HPS	990	244	495	165	6.26	261	5.86	0.40
Pong HPS	396	264	306	246	6.47	270	5.01	1.46
Sub Total (F)	2866	863	1355	719	21.43	893	19.38	2.05
G. IPP(s)/JV(s)								
ADHPL HPS(IPP)	192	0	72	42	0.99	41	0.95	0.04
KWHEP HPS(IPP)	1000	0	699	160	6.13	256	6.15	-0.02
Malana Stg-II HPS	100	0	17	17	0.45	19	0.38	0.07
Shree Cement TPS	300	0	266	267	6.34	264	6.37	-0.03
Budhil HPS(IPP)	70	0	35	10	0.40	16	0.43	-0.03
Sub Total (G)	1662	0	1089	496	14.31	596	14.29	0.02
H. Total Regional Entities (A-G)	22336	16158	16459	10730	287.18	11966	289.07	-1.89

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	1049	1049	23.61	984
	Guru Nanak Dev TPS(Bhatinda)	440	210	208	5.08	212
	Guru Hargobind Singh TPS(L.mbt)	920	979	969	21.52	897
	Thermal (Total)	2620	2238	2226	50.20	2092
	Total Hydro	1148	285	242	7.46	311
Total Punjab	3768	2523	2468	57.66	2403	
Haryana	Panipat TPS	1367	975	911	23.31	971
	DCRTPP (Yamuna nagar)	600	0	0	0.00	0
	Faridabad GPS (NTPC)	432	161	151	3.73	155
	RGTPP (khedar) (IPP)	1200	817	778	19.81	825
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	1320	349	364	9.07	378
	Thermal (Total)	4944	2302	2204	55.91	2330
	Total Hydro	62	33	30	0.81	34
Total Haryana	5006	2335	2234	56.72	2364	
Rajasthan	kota TPS	1240	1157	1069	26.72	1114
	suratgarh TPS	1500	1296	1348	30.80	1283
	Chabra TPS	500	448	374	9.52	397
	Dholpur GPS	330	204	138	3.37	140
	Ramgarh GPS	111	76	77	1.98	82
	RAPS A (NPC)	300	174	173	4.27	178
	Barsingar (NLC)	250	103	103	2.31	96
	Giral LTPS	250	0	0	0.00	0
	Rajwest LTPS (IPP)	540	486	486	10.41	434
	VSLP LTPS (IPP)	135	0	0	0.00	0
	Thermal (Total)	5156	3944	3768	89.37	3724
	Total Hydro	550	0	33	2.34	97
	Wind power	1843	0	254	3.51	146
	Biomass	91	32	32	0.73	30
	Solar	128	0	0	0.08	3
	Renewable/Others (Total)	2062	32	286	6.66	277
	Total Rajasthan	7767	3976	4087	98.37	4099
UP	Anpara TPS	1630	1139	1107	26.90	1121
	Obra TPS	1382	297	281	6.90	288
	Paricha TPS	890	449	388	9.80	408
	Panki TPS	210	117	135	3.00	125
	Harduaganj TPS	665	174	128	3.90	163
	Tanda TPS (NTPC)	440	392	402	9.75	406
	Roza TPS (IPP)	1200	1080	1102	25.55	1065
	Anpara-C (IPP)	1200	425	391	9.76	407
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	299	256	6.59	275
	Thermal (Total)	8067	4372	4190	102.15	4256
	Vishnuparyag HPS (IPP)	400	168	163	3.87	161
	Other Hydro	527	158	0	4.15	173
	Cogeneration	981	100	100	2.40	100
	Total UP	9975	4798	4453	112.57	4529
Uttarakhand	Total Hydro	1303	428	482	11.08	462
	Total Uttarakhand	1303	428	482	11.08	462
Delhi	Raighat TPS	135	107	104	2.45	102
	Delhi Gas Turbine	282	159	157	3.84	160
	Pragati Gas Turbine	330	265	264	6.63	276
	Rithala GPS	108	0	0	0.00	0
	Bawana GPS	677	0	0	0.00	0
	Badarpur TPS (NTPC)	705	505	585	11.69	487
	Thermal (Total)	2237	1036	1110	24.61	1025
Total Delhi	2237	1036	1110	24.61	1025	
HP	Baspa HPS (IPP)	330	56	47	1.78	74
	Malana HPS (IPP)	86	15	0	0.40	17
	Other Hydro	589	343	301	7.43	310
	Total HP	1005	414	348	10	400
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	16094	15611	380.83	15707
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			1599	3521	66.75	2781
Total Regional Availability(Gross)		54353	34152	29862	734.75	30454

IV. Total Hydro Generation:

Regional Entities Hydro	10364	7070	1240	71.07	2961
State Control Area Hydro	5368	1902	1564	49.52	1902
Total Regional Hydro	15731	8972	2804	120.59	4863

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	-100	50	50	100	0.50	0.97			-0.47
Gwalior-Agra (D/C)	-60	505	761	60	8.22	0.00			8.22
Zerda-Kankroli	-181	-34	0	225	0.00	2.84			-2.84
Zerda-Bhinmal	-116	37	77	185	0.00	0.90			-0.90
Malanpur-Auraiya	-220	-113	0	220	0.00	3.08			-3.08
Badod-Kota/Morak	-170	-137	0	204	0.00	1.38			-1.38
Mundra-Mohindergarh(HVDC)	708	709	712	0	17.05	0.00			17.05
Sub Total WR	-139	1017			25.78	9.17			16.61
Pusauli Bypass	50	-100	50	100	0.73	0.98			-0.25
MZP- GKP (D/C)	444	810	848	0	16.05	0.00			16.05
Patna-Balia(D/C)	174	538	587	0	8.29	0.00			8.29
B'Sharif-Balia (D/C)	162	435	501	0	8.01	0.00			8.01
Barh - Balia(D/C)	418	328	605	0	10.06	0.00			10.06
Pusauli-Balia	198	103	233	64	0.46	0.00			0.46
Gaya-Fatehpur (765 Kv)	170	271	363	0	5.15	0.00			5.15
Pusauli-Sahupuri	164	153	168	0	3.35	0.00			3.35
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	1738	2504			52.09	1.95			50.14
Total IR Exch	1599	3521			77.87	11.12			66.75

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
37.75	1.42	39.16	-0.71	-3.85	16.67	1.99	7.57	-7.50
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
62.69	7.48	70.17	50.14	16.61	66.75	-12.55	9.13	-3.42

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	89.40	88.60	63.30	10.60
Frequency (Hz)				Average Frequency	Frequency Variation Index	Std. Dev.	Frequency in 15 Min Block	
Maximum		Minimum		Hz			MAX (Hz)	MIN (Hz)
50.48	16.07	49.61	0.17	50.03	0.20	0.14	50.43	49.84

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	410	20:30	404	00:00	0.0	0.0	0.0	0.0
Gorakhpur	400	430	16:12	409	11:29	0.0	0.0	60.0	0.0
Bareilly	400	420	17:30	401	01:12	0.0	0.0	0.0	0.0
Kanpur	400	417	02:57	404	10:23	0.0	0.0	0.0	0.0
Dadri	400	421	21:26	407	10:19	0.0	0.0	0.2	0.0
Ballabhgarh	400	425	02:50	412	10:18	0.0	0.0	30.1	0.0
Bawana	400	423	03:04	410	11:13	0.0	0.0	15.6	0.0
Bassi	400	430	20:36	408	10:21	0.0	0.0	53.6	0.0
Hissar	400	414	20:36	400	10:20	0.0	0.0	0.0	0.0
Moga	400	420	02:44	405	10:48	0.0	0.0	0.0	0.0
Abdullapur	400	423	02:44	292	09:23	0.1	0.1	3.3	0.0
Nalagarh	400	427	02:43	413	05:51	0.0	0.0	21.8	0.0
Kishenpur	400	423	02:50	400	07:10	0.0	0.0	6.8	0.0
Wagoora	400	422	16:03	384	07:05	0.0	6.0	0.2	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	503.94	1258.87	510.32	1560.04	270.43	229.93
Pong	426.72	384.05	420.91	931.43	422.07	990.81	82.77	369.19
Tehri	829.79	740.04	824.85	1100.00	818.65	982.26	82.90	88.00
Koteshwar	612.50	598.50	607.10	3.10	NA	NA	88.00	129.00
Chamera-I	760.00	748.75	NA	NA	NA	NA	83.82	80.30
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 21.10.2012 :

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 : 21.10.2012

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER