

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरसिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 26.10.2012

Date of Reporting : 27.10.2012

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
32515	2910	35425	50.35	26491	1174	27665	50.11	691.7	48.32

* 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	48.32	7.96		56.28	38.39	38.98	0.59	95.26	2.03
Haryana	35.87	0.86		36.73	51.55	54.55	3.00	91.28	9.43
Rajasthan	91.39	3.20	5.32	99.91	51.90	52.62	0.72	152.54	1.69
Delhi	21.76			21.76	37.29	36.44	-0.85	58.20	0.06
UP	120.22	7.68	2.40	130.30	84.58	80.86	-3.72	211.16	29.92
Uttarakhand		10.07		10.07	13.70	15.91	2.21	25.98	2.66
HP		8.70		8.70	11.76	13.01	1.25	21.71	0.83
J & K		9.41	0.00	9.41	23.30	22.78	-0.52	32.19	1.70
Chandigarh				0.00	3.59	3.39	-0.20	3.39	0.00
Total	317.57	47.88	7.72	373.17	316.06	318.54	2.48	691.71	48.32

* 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	4835	351	30	-149	3087	0	-53	267	3.33	
Haryana	4604	669	107	478	3291	181	101	217	5.40	
Rajasthan	6419	360	197	89	6290	0	-52	533	11.82	
Delhi	3069	0	-109	-847	1605	6	-61	-736	-20.69	
UP	9191	1350	-528	93	9212	840	100	228	2.74	
Uttarakhand	1485	80	322	70	987	80	54	113	3.22	
HP	1208	0	87	-200	685	67	68	-13	-2.51	
J&K	1517	100	-229	93	1238	0	-1	101	2.34	
Chandigarh	188	0	-23	-15	96	0	-10	-6	-0.15	
Total	32515	2910	-146	-388	26491	1174	145	703	5.49	

* 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)	UI [OG:(+ve), UG: (-ve)]	
							Schedule Net MU	UI Net MU
A. NTPC								
Singrauli STPS	2000	1925	2035	1914	45.60	1900	45.50	0.10
Rihand I STPS	1000	935	1011	1011	22.08	920	22.05	0.03
Rihand II STPS	1000	970	1030	1034	23.04	960	23.00	0.04
Rihand III STPS	500	0	0	0	0.00	0		0.00
Dadri I STPS	840	798	833	640	16.98	708	17.07	-0.08
Dadri II STPS	980	485	554	392	10.51	438	10.59	-0.08
Unchahar I TPS	420	404	425	354	9.07	378	9.38	-0.31
Unchahar II TPS	420	398	415	377	8.86	369	9.04	-0.18
Unchahar III TPS	210	202	193	174	4.35	181	4.60	-0.24
ISTPP (Jhajhar)	1000	822	702	468	13.19	550	16.25	-3.06
Dadri GPS	830	824	480	554	11.65	485	11.73	-0.08
Anta GPS	419	405	195	222	4.78	199	4.76	0.03
Auraiya GPS	663	647	279	322	6.65	277	6.99	-0.35
Sub Total (A)	10282	8815	8152	7462	176.76	7365	180.96	-4.20
B. NPC								
NAPS	440	277	315	314	6.62	276	6.65	-0.03
RAPS- B	440	414	459	461	10.03	418	9.94	0.09
RAPS- C	440	440	472	469	10.02	418	10.56	-0.54
Sub Total (B)	1320	1131	1246	1244	26.67	1111	27.14	-0.48
C. NHPC								
Chamera I HPS	540	535	356	0	2.84	118	3.22	-0.39
Chamera II HPS	300	303	279	0	2.35	98	2.44	-0.09
Chamera III HPS	231	154	110	0	1.48	62	1.59	-0.11
Bairasuil HPS	180	182	70	0	0.75	31	0.71	0.03
Salai-HPS	690	184	330	140	4.46	186	4.43	0.03
Tanakpur-HPS	94	57	69	58	1.39	58	1.38	0.01
Uri-HPS	480	179	169	129	4.01	167	4.32	-0.31
Dhauliganga-HPS	280	288	208	0	2.06	86	2.17	-0.10
Dulhasi-HPS	390	387	370	14	4.51	188	4.64	-0.13
Sewa-II HPS	120	80	74	0	0.36	15	0.36	0.00
Sub Total (C)	3305	2348	2035	341	24.20	1008	25.26	-1.06
D.NJPC								
Nathpa Jhakri	1500	1605	1515	0	11.37	474	11.40	-0.03
Sub Total (D)	1500	1605	1515	0	11.37	474	11.40	-0.03
E. THDC								
Tehri HPS	1000	656	920	0	4.60	192	4.50	0.10
Koteswar HPS	400	251	237	0	1.24	52	1.20	0.04
Sub Total (E)	1400	907	1157	0	5.84	243	5.70	0.14
F. BBMB								
Bhakra HPS	1480	349	540	313	8.61	359	8.37	0.24
Dehar HPS	990	230	495	140	5.84	243	5.53	0.32
Pong HPS	396	240	306	186	6.09	254	5.01	1.08
Sub Total (F)	2866	819	1341	639	20.54	856	18.90	1.64
G. IPP(s)/JV(s)								
ADHPL HPS(IPP)	192	0	61	0	0.84	35	0.86	-0.01
KWHEP HPS(IPP)	1000	0	450	220	6.08	253	6.12	-0.04
Malana Stg-II HPS	100	0	17	17	0.41	17	0.38	0.03
Shree Cement TPS	300	0	265	190	5.94	248	5.84	0.10
Budhil HPS(IPP)	70	0	34	11	0.32	13	0.35	-0.03
Sub Total (G)	1662	0	827	438	13.60	567	13.55	0.05
H. Total Regional Entities (A-G)	22336	15624	16273	10124	278.97	11624	282.91	-3.93

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	1226	925	23.69	987	
	Guru Nanak Dev TPS(Bhatinda)	440	210	166	4.39	183	
	Guru Hargobind Singh TPS(L.mbt)	920	967	745	20.24	843	
	Thermal (Total)	2620	2403	1836	48.32	2013	
	Total Hydro	1148	402	241	7.96	332	
	Total Punjab	3768	2805	2077	56.28	2345	
Haryana	Panipat TPS	1367	958	982	22.79	950	
	DCRTPP (Yamuna nagar)	600	0	0	0.00	0	
	Faridabad GPS (NTPC)	432	417	201	8.83	368	
	RGTPP (khedar) (IPP)	1200	392	114	4.26	177	
	Magnum Diesel (IPP)	25	0	0	0.00	0	
	Jhajjar(CLP)	1320	0	0	0.00	0	
	Thermal (Total)	4944	1767	1297	35.87	1495	
	Total Hydro	62	31	36	0.86	36	
	Total Haryana	5006	1798	1333	36.73	1530	
Rajasthan	kota TPS	1240	1173	1162	27.55	1148	
	suratgarh TPS	1500	1255	1343	30.39	1266	
	Chabra TPS	500	370	376	9.41	392	
	Dholpur GPS	330	137	134	3.03	126	
	Ramgarh GPS	111	61	63	1.60	67	
	RAPS A (NPC)	300	173	173	4.20	175	
	Barsingar (NLC)	250	208	207	4.99	208	
	Giral LTPS	250	0	0	0.00	0	
	Rajwest LTPS (IPP)	540	365	486	10.21	425	
	VSLP LTPS (IPP)	135	0	0	0.00	0	
	Thermal (Total)	5156	3742	3944	91.39	3808	
	Total Hydro	550	190	59	3.20	133	
	Wind power	1843	53	77	1.20	50	
	Biomass	91	34	34	0.81	34	
	Solar	128	3	0	0.11	5	
	Renewable/Others (Total)	2062	87	111	5.32	222	
	Total Rajasthan	7767	4019	4114	99.91	4163	
	UP	Anpara TPS	1630	1240	1217	28.90	1204
		Obra TPS	1382	468	455	11.20	467
		Paricha TPS	890	426	451	10.70	446
Panki TPS		210	135	122	3.00	125	
Harduaganj TPS		665	207	23	3.30	138	
Tanda TPS (NTPC)		440	398	397	9.78	408	
Roza TPS (IPP)		1200	1071	1080	25.53	1064	
Anpara-C (IPP)		1200	886	803	20.14	839	
Bajaj Energy Pvt.Ltd(IPP) TPS		450	324	324	7.68	320	
Thermal (Total)		8067	5155	4872	120.22	5009	
Vishnuparyag HPS (IPP)		400	153	149	3.56	148	
Other Hydro		527	176	0	4.12	172	
Cogeneration		981	100	100	2.40	100	
Total UP		9975	5584	5121	130.30	5281	
Uttarakhand		Total Hydro	1303	435	473	10.07	420
		Total Uttarakhand	1303	435	473	10.07	420
Delhi	Raighat TPS	135	110	106	2.56	107	
	Delhi Gas Turbine	282	84	84	1.97	82	
	Pragati Gas Turbine	330	307	263	7.07	295	
	Rithala GPS	108	0	0	0.00	0	
	Bawana GPS	677	0	0	0.00	0	
	Badarpur TPS (NTPC)	705	485	430	10.16	423	
	Thermal (Total)	2237	986	883	21.76	907	
	Total Delhi	2237	986	883	21.76	907	
HP	Baspa HPS (IPP)	330	60	60	1.89	79	
	Malana HPS (IPP)	86	45	0	0.42	17	
	Other Hydro	589	317	248	6.39	266	
	Total HP	1005	422	308	9	362	
J & K	Baglihar HPS (IPP)	450	234	232	5.86	244	
	Other Hydro	323	140	175	3.55	148	
	Gas/Diesel/Others	183	0	0	0.00	0	
	Total J & K	956	374	407	9.41	392	
Total State Control Area Generation		32017	16423	14716	373.17	15401	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			951	2758	51.84	2160	
Total Regional Availability(Gross)		54353	33647	27598	703.99	29184	

IV. Total Hydro Generation:

Regional Entities Hydro	10364	6576	1217	69.28	2887
State Control Area Hydro	5368	2030	1524	47.88	1847
Total Regional Hydro	15731	8606	2741	117.17	4734

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	-350	-300	0	350	0.00	8.22	0.00	-8.22	
Gwalior-Agra (D/C)	0	558	695	0	8.47	0.00	8.47		
Zerda-Kankroli	-173	-34	0	219	0.00	2.57	-2.57		
Zerda-Bhinmal	-74	47	109	144	0.00	0.19	-0.19		
Malanpur-Auraiya	-163	-57	0	195	0.00	2.24	-2.24		
Badod-Kota/Morak	-156	-50	0	170	0.00	2.92	-2.92		
Mundra-Mohindergarh(HVDC)	926	925	926	0	22.18	0.00	22.18		
Sub Total WR	10	1089			30.65	16.14	14.51		
Pusauli Bypass	-150	-50	0	300	0.00	2.85	-2.85		
MZP- GKP (D/C)	294	578	694	0	12.83	0.00	12.83		
Patna-Balia(D/C)	183	331	421	0	7.99	0.00	7.99		
B'Sharif-Balia (D/C)	73	152	228	0	3.64	0.00	3.64		
Barh - Balia(D/C)	410	481	569	0	11.15	0.00	11.15		
Pusauli-Balia	11	40	115	0	1.52	0.00	1.52		
Gaya-Fatehpur (765 Kv)	0	0	172	0	0.21	0.00	0.21		
Pusauli-Sahupuri	160	171	189	0	3.77	0.00	3.77		
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00		
Son Ngr-Rihand	-40	-34	0	46	0.00	0.92	-0.92		
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00		
Sub Total ER	941	1669			41.11	3.77	37.34		
Total IR Exch	951	2758			71.76	19.91	51.84		

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
39.46	1.34	40.80	-3.68	-1.34	-0.07	-2.59	-4.68	4.76
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
32.36	13.33	45.69	37.34	14.51	51.84	4.98	1.18	6.15

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	0.60	89.20	88.60	57.20	10.80
<----- Frequency (Hz) ----->				Average Frequency	Frequency Variation Index	Std. Dev.	Frequency in 15 Min Block	
Maximum		Minimum					MAX (Hz)	MIN (Hz)
50.42	21.48	49.68	7.21	50.03	0.19	0.14	50.39	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	408	22:00	399	10:40	0.0	0.0	0.0	0.0
Gorakhpur	400	431	21:49	413	12:02	0.0	0.0	53.5	0.6
Bareilly	400	423	21:35	401	10:15	0.0	0.0	2.1	0.0
Kanpur	400	423	21:43	401	10:12	0.0	0.0	3.7	0.0
Dadri	400	424	21:42	406	9:55	0.0	0.0	15.9	0.0
Ballabhgarh	400	426	1:44	409	10:11	0.0	0.0	47.6	0.0
Bawana	400	426	1:48	409	10:08	0.0	0.0	39.7	0.0
Bassi	400	432	21:42	406	9:24	0.0	0.0	52.8	1.1
Hissar	400	417	21:35	398	8:22	0.0	0.0	0.0	0.0
Moga	400	417	3:30	395	10:15	0.0	0.0	0.0	0.0
Abdullapur	400	426	1:52	407	18:10	0.0	0.0	32.8	0.0
Nalagarh	400	427	0:12	408	10:39	0.0	0.0	35.0	0.0
Kishenpur	400	417	3:36	394	10:08	0.0	0.0	0.0	0.0
Wagoora	400	409	3:30	378	18:29	0.5	45.6	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	503.99	1258.87	510.28	1560.04	269.32	228.83
Pong	426.72	384.05	420.70	916.71	421.95	975.89	69.12	355.55
Tehri	829.79	740.04	824.86	1100.00	818.65	982.26	89.50	102.00
Koteswar	612.50	598.50	NA	NA	NA	NA	NA	NA
Chamera-I	760.00	748.75	NA	NA	NA	NA	62.34	66.80
Rihand	268.22	252.98	263.65	522.00	265.24	630.80	NA	NA
RPS	352.80	343.81	352.49	NA	NA	NA	NA	102.11
Jawahar Sagar	298.70	295.78	297.21	NA	NA	NA	NA	132.81
RSD	527.91	487.91	520.65	NA	521.69	NA	71.19	83.79

* NA: Not Available

IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

XI. Weather Conditions For 26.10.2012 :

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 : 26.10.2012

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER