

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरसिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 27.10.2012
Date of Reporting : 28.10.2012

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
31575	3259	34834	50.08	27355	962	28317	50.19	693.3	57.72

* 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 *
Punjab	47.31	5.68		53.00	39.05	40.01	0.96	93.01	6.61
Haryana	38.77	0.86		39.63	56.18	57.80	1.62	97.43	4.47
Rajasthan	91.51	3.54	5.85	100.90	52.37	54.00	1.63	154.90	7.14
Delhi	19.77			19.77	35.78	33.66	-2.12	53.43	0.31
UP	120.12	8.41	2.40	130.93	78.58	73.96	-4.62	204.89	34.87
Uttarakhand		9.87		9.87	14.30	16.28	1.98	26.15	2.24
HP		8.61		8.61	12.11	14.12	2.01	22.73	0.37
J & K		9.41	0.00	9.41	27.21	28.11	0.89	37.52	1.70
Chandigarh				0.00	3.52	3.22	-0.30	3.22	0.00
Total	317.49	46.38	8.25	372.11	319.09	321.16	2.07	693.27	57.72

* 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	4302	996	-45	-231	3161	0	21	307	3.13
Haryana	4479	388	5	696	3944	0	195	458	10.85
Rajasthan	6868	33	9	569	6202	0	207	401	9.49
Delhi	2765	3	-11	-1067	1613	0	-83	-1224	-27.86
UP	8680	1650	-253	-522	9140	960	121	228	-3.12
Uttarakhand	1360	80	21	235	989	0	-31	163	4.31
HP	1190	9	116	-208	760	0	89	37	-2.11
J&K	1748	100	-87	260	1454	0	59	298	7.01
Chandigarh	184	0	-17	-25	93	0	-12	-10	-0.25
Total	31575	3259	-262	-293	27355	962	566	657	1.45

* 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), UI: (-ve)]
								UI Net MU
A. NTPC								
Singrauli STPS	2000	1925	2060	1912	45.59	1899	45.44	0.14
Rihand I STPS	1000	921	1018	952	22.22	926	22.11	0.11
Rihand II STPS	1000	970	1039	1038	23.37	974	23.28	0.09
Rihand III STPS	500	0	0	0	0.00	0		0.00
Dadri I STPS	840	810	852	618	17.97	749	18.27	-0.30
Dadri II STPS	980	717	988	508	16.53	689	17.04	-0.52
Unchahar I TPS	420	405	435	396	9.29	387	9.46	-0.17
Unchahar II TPS	420	405	435	407	9.20	383	9.32	-0.12
Unchahar III TPS	210	202	217	201	4.65	194	4.72	-0.07
ISTPP (Jhajjar)	1000	608	435	573	11.25	469	11.71	-0.45
Dadri GPS	830	824	494	552	12.26	511	12.48	-0.23
Anta GPS	419	405	201	240	5.34	223	5.35	-0.01
Auraiya GPS	663	647	309	322	7.15	298	7.60	-0.45
Sub Total (A)	10282	8839	8483	7719	184.81	7700	186.79	-1.98
B. NPC								
NAPS	440	278	316	315	6.69	279	6.67	0.01
RAPS- B	440	414	458	465	10.00	417	9.94	0.06
RAPS- C	440	440	469	474	10.12	422	10.56	-0.44
Sub Total (B)	1320	1132	1243	1254	26.80	1117	27.17	-0.36
C. NHPC								
Chamera I HPS	540	535	540	0	3.18	132	3.05	0.13
Chamera II HPS	300	303	279	0	2.22	92	2.25	-0.03
Chamera III HPS	231	154	105	0	1.46	61	1.40	0.06
Bairasuil HPS	180	182	182	0	0.75	31	0.65	0.10
Salal-HPS	690	176	255	212	4.28	178	4.06	0.22
Tanakpur-HPS	94	57	58	60	1.45	60	1.43	0.02
Uri-HPS	480	170	240	133	4.03	168	3.91	0.12
Dhauliganga-HPS	280	288	285	0	1.98	82	1.99	-0.01
Dulhasti-HPS	390	384	344	10	4.82	201	4.69	0.13
Sewa-II HPS	120	80	42	0	0.31	13	0.30	0.01
Sub Total (C)	3305	2328	2330	415	24.48	1020	23.73	0.75
D.NJPC								
Nathpa Jhakri	1500	1605	1519	0	11.52	480	11.40	0.12
Sub Total (D)	1500	1605	1519	0	11.52	480	11.40	0.12
E. THDC								
Tehri HPS	1000	656	1060	0	5.54	231	5.28	0.27
Koteshwar HPS	400	251	241	0	1.71	71	1.64	0.07
Sub Total (E)	1400	907	1301	0	7.25	302	6.91	0.34
F. BBMB								
Bhakra HPS	1480	380	737	303	9.59	400	9.13	0.46
Dehar HPS	990	214	495	145	5.47	228	5.14	0.33
Pong HPS	396	300	366	246	7.37	307	5.01	2.36
Sub Total (F)	2866	894	1598	694	22.43	935	19.28	3.15
G. IPP(s)/JV(s)								
ADHPL HPS(IPP)	192	0	60	0	0.89	37	0.86	0.03
KWHEP HPS(IPP)	1000	0	500	160	6.11	255	6.11	0.00
Malana Stg-II HPS	100	0	17	17	0.41	17	0.38	0.03
Shree Cement TPS	300	0	270	192	5.84	243	5.71	0.13
Budhil HPS(IPP)	70	0	34	0	0.30	12	0.32	-0.03
Sub Total (G)	1662	0	881	369	13.55	564	13.37	0.18
H. Total Regional Entities (A-G)	22336	15706	17355	10451	290.84	12118	288.64	2.20

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	1054	930	22.96	957	
	Guru Nanak Dev TPS(Bhatinda)	440	210	190	4.37	182	
	Guru Hargobind Singh TPS(L.mbt)	920	968	725	19.98	833	
	Thermal (Total)	2620	2232	1845	47.31	1971	
	Total Hydro	1148	238	238	5.68	237	
	Total Punjab	3768	2470	2083	53.00	2208	
Haryana	Panipat TPS	1367	730	739	17.83	743	
	DCRTPP (Yamuna nagar)	600	0	0	0.00	0	
	Faridabad GPS (NTPC)	432	417	284	9.43	393	
	RGTPP (khedar) (IPP)	1200	434	459	11.50	479	
	Magnum Diesel (IPP)	25	0	0	0.00	0	
	Jhajjar(CLP)	1320	0	0	0.00	0	
	Thermal (Total)	4944	1581	1482	38.77	1615	
	Total Hydro	62	31	36	0.86	36	
	Total Haryana	5006	1612	1518	39.63	1651	
Rajasthan	kota TPS	1240	1168	1160	27.83	1160	
	suratgarh TPS	1500	1313	1371	31.59	1316	
	Chabra TPS	500	446	390	9.55	398	
	Dholpur GPS	330	174	134	3.31	138	
	Ramgarh GPS	111	70	61	1.71	71	
	RAPS A (NPC)	300	173	173	4.18	174	
	Barsingar (NLC)	250	209	208	4.91	205	
	Giral LTPS	250	0	0	0.00	0	
	Rajwest LTPS (IPP)	540	365	365	8.44	352	
	VSLP LTPS (IPP)	135	0	0	0.00	0	
	Thermal (Total)	5156	3918	3862	91.51	3813	
	Total Hydro	550	238	80	3.54	147	
	Wind power	1843	71	19	1.30	54	
	Biomass	91	34	34	0.81	34	
	Solar	128	5	0	0.20	8	
	Renewable/Others (Total)	2062	105	53	5.85	244	
	Total Rajasthan	7767	4261	3995	100.90	4204	
	UP	Anpara TPS	1630	1148	1153	27.00	1125
		Obra TPS	1382	482	466	11.50	479
		Paricha TPS	890	442	448	10.80	450
Panki TPS		210	54	140	2.90	121	
Harduaganj TPS		665	222	223	5.30	221	
Tanda TPS (NTPC)		440	401	398	9.79	408	
Roza TPS (IPP)		1200	1089	1080	24.84	1035	
Anpara-C (IPP)		1200	450	908	20.16	840	
Bajaj Energy Pvt.Ltd(IPP) TPS		450	302	347	7.84	327	
Thermal (Total)		8067	4590	5163	120.12	5005	
Vishnuparyag HPS (IPP)		400	148	144	3.47	145	
Other Hydro		527	215	0	4.94	206	
Cogeneration		981	100	100	2.40	100	
Total UP		9975	5053	5407	130.93	5311	
Uttarakhand		Total Hydro	1303	469	472	9.87	411
	Total Uttarakhand	1303	469	472	9.87	411	
Delhi	Raighat TPS	135	112	107	2.02	84	
	Delhi Gas Turbine	282	45	84	1.60	67	
	Pragati Gas Turbine	330	183	263	6.21	259	
	Rithala GPS	108	0	0	0.00	0	
	Bawana GPS	677	0	0	0.00	0	
	Badarpur TPS (NTPC)	705	425	425	9.94	414	
	Thermal (Total)	2237	765	879	19.77	824	
	Total Delhi	2237	765	879	19.77	824	
HP	Baspa HPS (IPP)	330	28	75	1.87	78	
	Malana HPS (IPP)	86	45	0	0.40	16	
	Other Hydro	589	301	236	6.35	264	
	Total HP	1005	374	311	9	359	
J & K	Baglihar HPS (IPP)	450	294	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	434	407	9.41	392	
Total State Control Area Generation		32017	15438	15072	372.11	15360	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			-38	2546	37.83	1576	
Total Regional Availability(Gross)		54353	32755	28069	700.78	29055	

IV. Total Hydro Generation:

Regional Entities Hydro	10364	7325	1286	73.09	3046
State Control Area Hydro	5368	1999	1544	46.38	1788
Total Regional Hydro	15731	9324	2830	119.47	4833

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	-350	0	350	0.00	4.98			-4.98
Gwalior-Agra (D/C)	-415	538	755	415	3.60	0.00			3.60
Zerda-Kankroli	-243	2	27	296	0.00	3.38			-3.38
Zerda-Bhinmal	-131	103	197	297	0.00	0.69			-0.69
Malanpur-Auraiya	-215	-71	0	251	0.00	3.29			-3.29
Badod-Kota/Morak	-222	-92	0	242	0.00	3.21			-3.21
Mundra-Mohindergarh(HVDC)	923	927	926	0	22.19	0.00			22.19
Sub Total WR	-403	1057			25.79	15.55			10.24
Pusauli Bypass	-200	-300	0	300	0.00	5.41			-5.41
MZP- GKP (D/C)	128	600	612	0	10.35	0.00			10.35
Patna-Balia(D/C)	91	260	282	0	4.87	0.00			4.87
B'Sharif-Balia (D/C)	7	180	221	0	3.29	0.00			3.29
Barh - Balia(D/C)	263	516	575	0	10.53	0.00			10.53
Pusauli-Balia	-17	123	156	91	1.46	0.00			1.46
Gaya-Fatehpur (765 Kv)	0	0	0	0	0.00	0.00			0.00
Pusauli-Sahupuri	133	144	176	0	3.42	0.00			3.42
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	365	1489			33.92	6.33			27.59
Total IR Exch	-38	2546			59.71	21.88			37.83

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
35.69	1.24	36.92	-3.74	-1.97	-1.53	-3.94	-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
26.98	15.12	42.09	27.59	10.24	37.83	0.61	-4.88	-4.27

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	5.70	97.10	91.50	41.80	2.80
<----- Frequency (Hz) ----->				Average Frequency	Frequency Variation Index	Std. Dev.	Frequency in 15 Min Block	
Maximum		Minimum					MAX (Hz)	MIN (Hz)
50.33	6.02	49.49	17.40	49.96	0.23	0.14	50.28	49.81

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	19:41	400	13:34	0.0	0.0	0.0	0.0
Gorakhpur	400	432	20:56	416	11:23	0.0	0.0	81.3	5.1
Bareilly	400	425	20:58	400	7:33	0.0	0.0	4.3	0.0
Kanpur	400	420	20:55	403	7:17	0.0	0.0	0.0	0.0
Dadri	400	420	3:58	405	10:47	0.0	0.0	0.0	0.0
Ballabhgarh	400	427	20:56	409	10:53	0.0	0.0	37.5	0.0
Bawana	400	424	20:57	0	10:35	43.8	43.8	15.8	0.0
Bassi	400	433	20:57	402	7:34	0.0	0.0	22.1	0.6
Hissar	400	416	20:49	398	12:14	0.0	0.0	0.0	0.0
Moga	400	418	20:57	32	21:07	0.4	0.4	0.0	0.0
Abdullapur	400	422	20:56	291	9:49	0.2	0.2	2.0	0.0
Nalagarh	400	424	20:57	407	12:14	0.0	0.0	4.9	0.0
Kishenpur	400	415	2:59	395	6:46	0.0	0.0	0.0	0.0
Wagoora	400	403	2:59	375	6:46	4.3	50.2	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 27.10.2012 :

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 : 27.10.2012

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER