

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरसिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 29.10.2012

Date of Reporting : 30.10.2012

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
31677	2830	34507	50.17	26105	715	26820	50.13	677.5	68.04

* 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	47.17	8.20		55.37	35.06	35.20	0.13	90.57	6.77
Haryana	45.03	0.78		45.81	52.32	53.25	0.93	99.06	3.87
Rajasthan	86.20	4.22	5.71	96.13	54.49	57.50	3.01	153.63	5.46
Delhi	28.45			28.45	31.99	27.87	-4.12	56.33	0.21
UP	106.35	8.35	2.40	117.10	74.42	73.20	-1.22	190.30	47.45
Uttarakhand		9.84		9.84	14.75	17.62	2.87	27.46	2.13
HP		8.66		8.66	12.74	13.51	0.77	22.17	0.44
J & K		9.39	0.00	9.39	25.05	25.31	0.26	34.71	1.70
Chandigarh				0.00	3.47	3.30	-0.17	3.30	0.00
Total	313.21	49.43	8.11	370.75	304.30	306.76	2.46	677.51	68.04

* 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	4689	502	-50	-311	3024	0	-85	277	0.73	
Haryana	4803	310	80	697	3708	0	14	297	8.66	
Rajasthan	6793	18	200	297	6281	0	95	594	12.13	
Delhi	3024	0	-171	-962	1458	0	-154	-1679	-28.20	
UP	7807	1893	-589	-341	8507	715	-80	227	-6.45	
Uttarakhand	1569	0	190	294	960	0	123	138	5.05	
HP	1189	7	149	-165	738	0	54	135	-0.64	
J&K	1613	100	-238	210	1338	0	10	224	5.13	
Chandigarh	190	0	-5	-18	91	0	-10	-12	-0.21	
Total	31677	2830	-434	-300	26105	715	-33	202	-3.80	

* 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), UI: (-ve)]	
							Schedule Net MU	UI Net MU
A. NTPC								
Singrauli STPS	2000	1925	2051	2080	46.42	1934	46.20	0.22
Rihand I STPS	1000	935	1015	1013	22.39	933	22.26	0.13
Rihand II STPS	1000	970	1029	1042	23.38	974	23.20	0.18
Rihand III STPS	500	0	0	0	0.00	0		0.00
Dadri I STPS	840	751	837	628	17.73	739	17.64	0.08
Dadri II STPS	980	460	488	503	11.08	462	11.03	0.05
Unchahar I TPS	420	405	432	436	9.60	400	9.68	-0.08
Unchahar II TPS	420	405	433	433	9.56	398	9.64	-0.08
Unchahar III TPS	210	202	220	219	4.82	201	4.83	-0.01
ISTPP (Jhajjhar)	1000	470	375	409	8.37	349	10.96	-2.59
Dadri GPS	830	829	416	513	11.93	497	12.73	-0.80
Anta GPS	419	405	267	215	5.43	226	5.42	0.01
Auraiya GPS	663	650	315	263	6.71	279	7.01	-0.30
Sub Total (A)	10282	8407	7878	7754	177.40	7392	180.61	-3.21
B. NPC								
NAPS	440	278	315	320	6.63	276	6.67	-0.04
RAPS- B	440	417	459	463	10.03	418	10.01	0.02
RAPS- C	440	440	467	474	10.12	422	10.56	-0.44
Sub Total (B)	1320	1135	1241	1257	26.78	1116	27.24	-0.46
C. NHPC								
Chamera I HPS	540	540	540	0	3.21	134	3.15	0.06
Chamera II HPS	300	303	301	0	1.94	81	1.83	0.11
Chamera III HPS	231	154	153	0	1.38	58	1.43	-0.05
Bairasuil HPS	180	138	20	0	0.80	34	0.78	0.03
Salai-HPS	690	177	246	230	4.50	187	4.34	0.16
Tanakpur-HPS	94	56	62	220	1.42	59	1.34	0.07
Uri-HPS	480	170	204	58	3.81	159	3.81	0.00
Dhauliganga-HPS	280	288	279	118	1.98	83	1.92	0.06
Dulhasti-HPS	390	387	78	0	4.46	186	4.51	-0.04
Sewa-II HPS	120	80	84	11	0.31	13	0.30	0.01
Sub Total (C)	3305	2292	1967	637	23.82	992	23.41	0.41
D.NJPC								
Nathpa Jhakri	1500	1605	1311	0	10.50	438	10.54	-0.04
Sub Total (D)	1500	1605	1311	0	10.50	438	10.54	-0.04
E. THDC								
Tehri HPS	1000	656	937	0	5.21	217	5.00	0.21
Koteshwar HPS	400	240	234	0	1.39	58	1.35	0.04
Sub Total (E)	1400	896	1171	0	6.60	275	6.35	0.25
F. BBMB								
Bhakra HPS	1480	339	571	307	8.46	353	8.14	0.32
Dehar HPS	990	214	495	140	5.51	230	5.14	0.37
Pong HPS	396	292	366	246	7.17	299	5.01	2.16
Sub Total (F)	2866	845	1432	693	21.14	881	18.29	2.85
G. IPP(s)/JV(s)								
ADHPL HPS(IPP)	192	0	40	0	0.84	35	0.81	0.03
KWHEP HPS(IPP)	1000	0	600	160	6.07	253	6.07	-0.01
Malana Stg-II HPS	100	0	17	17	0.35	15	0.31	0.04
Shree Cement TPS	300	0	266	222	5.97	249	5.84	0.12
Budhil HPS(IPP)	70	0	34	0	0.27	11	0.29	-0.02
Sub Total (G)	1662	0	957	399	13.49	562	13.32	0.17
H. Total Regional Entities (A-G)	22336	15180	15957	10740	279.72	11655	279.75	-0.03

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	1214	740	22.70	946	
	Guru Nanak Dev TPS(Bhatinda)	440	212	201	4.39	183	
	Guru Hargobind Singh TPS(L.mbt)	920	968	963	20.09	837	
	Thermal (Total)	2620	2394	1904	47.17	1966	
	Total Hydro	1148	405	246	8.20	341	
	Total Punjab	3768	2799	2150	55.37	2307	
Haryana	Panipat TPS	1367	966	973	23.28	970	
	DCRTPP (Yamuna nagar)	600	0	0	0.00	0	
	Faridabad GPS (NTPC)	432	410	283	9.14	381	
	RGTPP (kheadar) (IPP)	1200	531	494	12.62	526	
	Magnum Diesel (IPP)	25	0	0	0.00	0	
	Jhajjar(CLP)	1320	0	0	0.00	0	
	Thermal (Total)	4944	1907	1750	45.03	1876	
	Total Hydro	62	29	31	0.78	32	
	Total Haryana	5006	1936	1781	45.81	1909	
Rajasthan	kota TPS	1240	1170	1158	27.19	1133	
	suratgarh TPS	1500	1325	1328	31.38	1308	
	Chabra TPS	500	413	381	9.68	403	
	Dholpur GPS	330	142	165	1.99	83	
	Ramgarh GPS	111	81	82	1.92	80	
	RAPS A (NPC)	300	173	173	4.29	179	
	Barsingar (NLC)	250	209	206	4.80	200	
	Giral LTPS	250	0	0	0.00	0	
	Rajwest LTPS (IPP)	540	167	243	4.95	206	
	VSLP LTPS (IPP)	135	0	0	0.00	0	
	Thermal (Total)	5156	3680	3736	86.20	3592	
	Total Hydro	550	179	108	4.22	176	
	Wind power	2191	61	27	0.56	23	
	Biomass	91	31	31	0.74	31	
	Solar	201	4	0	0.19	8	
	Renewable/Others (Total)	2483	92	58	5.71	238	
	Total Rajasthan	8189	3951	3902	96.13	4005	
	UP	Anpara TPS	1630	1161	1201	27.60	1150
		Obra TPS	1382	353	473	9.40	392
		Paricha TPS	890	393	406	9.40	392
Panki TPS		210	117	99	2.70	113	
Harduaganj TPS		665	194	220	4.60	192	
Tanda TPS (NTPC)		440	396	401	9.88	412	
Roza TPS (IPP)		1200	797	1067	23.43	976	
Anpara-C (IPP)		1200	537	503	6.56	273	
Bajaj Energy Pvt.Ltd(IPP) TPS		450	280	306	12.79	533	
Thermal (Total)		8067	4228	4676	106.35	4431	
Vishnuparyag HPS (IPP)		400	148	143	3.38	141	
Other Hydro		527	151	0	4.97	207	
Cogeneration		981	100	100	2.40	100	
Total UP		9975	4627	4919	117.10	4738	
Uttarakhand		Total Hydro	1303	463	368	9.84	410
	Total Uttarakhand	1303	463	368	9.84	410	
Delhi	Raighat TPS	135	113	110	2.53	105	
	Delhi Gas Turbine	282	119	111	2.59	108	
	Pragati Gas Turbine	330	308	314	7.37	307	
	Rithala GPS	108	82	0	1.21	50	
	Bawana GPS	677	274	0	3.21	134	
	Badarpur TPS (NTPC)	705	545	490	11.55	481	
	Thermal (Total)	2237	1441	1025	28.45	1186	
	Total Delhi	2237	1441	1025	28.45	1186	
HP	Baspa HPS (IPP)	330	11	18	1.94	81	
	Malana HPS (IPP)	86	46	0	0.36	15	
	Other Hydro	589	279	227	6.36	265	
	Total HP	1005	336	245	9	361	
J & K	Baglihar HPS (IPP)	450	294	232	5.84	243	
	Other Hydro	323	140	175	3.55	148	
	Gas/Diesel/Others	183	0	0	0.00	0	
	Total J & K	956	434	407	9.39	391	
Total State Control Area Generation		32439	15987	14797	370.75	15307	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			1076	1799	39.28	1637	
Total Regional Availability(Gross)		54775	33020	27336	689.75	28599	

IV. Total Hydro Generation:

Regional Entities Hydro	10364	6538	1507	69.31	2888
State Control Area Hydro	5368	1997	1405	49.43	1919
Total Regional Hydro	15731	8535	2912	118.74	4806

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	-300	-200	0	450	0.00	5.99	0.00	5.99	-5.99
Gwalior-Agra (D/C)	108	338	782	0	6.77	0.00	6.77	0.00	6.77
Zerda-Kankroli	-117	-70	9	227	0.00	2.95	0.00	2.95	-2.95
Zerda-Bhinmal	-17	44	168	115	0.00	0.03	0.00	0.03	-0.03
Malanpur-Auraiya	-160	-105	0	169	0.00	2.74	0.00	2.74	-2.74
Badod-Kota/Morak	-22	-103	0	197	0.00	2.18	0.00	2.18	-2.18
Mundra-Mohindergarh(HVDC)	812	432	912	0	15.14	0.00	15.14	0.00	15.14
Sub Total WR	304	336			21.91	13.89			8.01
Pusauli Bypass	-100	-100	0	100	0.00	2.41	0.00	2.41	-2.41
MZP- GKP (D/C)	236	674	750	0	12.83	0.00	12.83	0.00	12.83
Patna-Balia(D/C)	295	256	414	0	7.50	0.00	7.50	0.00	7.50
B'Sharif-Balia (D/C)	41	212	279	0	4.16	0.00	4.16	0.00	4.16
Barh - Balia(D/C)	207	354	409	0	7.18	0.00	7.18	0.00	7.18
Pusauli-Balia	0	-47	80	111	0.00	0.31	0.00	0.31	-0.31
Gaya-Fatehpur (765 Kv)	0	0	0	0	0.00	0.00	0.00	0.00	0.00
Pusauli-Sahupuri	133	148	161	0	3.26	0.00	3.26	0.00	3.26
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00	0.00	0.00
Son Ngr-Rihand	-40	-34	0	46	0.00	0.92	0.00	0.92	-0.92
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00	0.00	0.00
Sub Total ER	772	1463			34.92	3.64			31.27
Total IR Exch	1076	1799			56.82	17.54			39.28

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
35.72	1.16	36.88	-3.56	-6.44	-0.42	-5.99	-1.04	1.09
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
31.85	4.50	36.35	31.27	8.01	39.28	-0.58	3.51	2.93

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	4.70	97.40	92.70	32.30	2.60
Frequency (Hz)				Average Frequency	Frequency Variation Index	Std. Dev.	Frequency in 15 Min Block	
Maximum		Minimum		Hz			MAX (Hz)	MIN (Hz)
50.29	20.52	49.51	8.17	49.94	0.22	0.14	50.30	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	410	21:43	400	07:44	0.0	0.0	0.0	0.0
Gorakhpur	400	430	21:34	412	13:11	0.0	0.0	52.9	0.0
Bareilly	400	424	20:54	396	11:07	0.0	0.0	6.0	0.0
Kanpur	400	420	20:52	399	07:47	0.0	0.0	0.0	0.0
Dadri	400	423	20:50	402	11:07	0.0	0.0	6.4	0.0
Ballabhgarh	400	429	20:53	407	10:09	0.0	0.0	42.7	0.0
Bawana	400	427	20:52	405	11:08	0.0	0.0	27.5	0.0
Bassi	400	434	20:52	403	07:47	0.0	0.0	26.2	0.8
Hissar	400	419	20:42	397	11:07	0.0	0.0	0.0	0.0
Moga	400	423	21:15	402	11:07	0.0	0.0	3.3	0.0
Abdullapur	400	426	20:52	404	11:07	0.0	0.0	6.4	0.0
Nalagarh	400	427	20:51	407	11:05	0.0	0.0	17.1	0.0
Kishenpur	400	420	02:55	399	11:05	0.0	0.0	0.0	0.0
Wagoora	400	412	04:04	381	18:46	0.0	24.4	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	504.10	1272.20	510.08	1545.02	262.75	227.36
Pong	426.72	384.05	420.01	889.22	421.22	946.20	90.42	411.64
Tehri	829.79	740.04	824.70	1095.00	818.65	982.26	73.91	113.00
Koteswar	612.50	598.50	NA	NA	NA	NA	NA	NA
Chamera-I	760.00	748.75	NA	NA	NA	NA	78.47	86.38
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 29.10.2012 :

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 : 29.10.2012

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER