

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरसिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 30.10.2012

Date of Reporting : 31.10.2012

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
31493	3193	34685	50.23	27319	865	28184	50.09	694.2	64.67

* 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	53.54	8.02		61.56	34.94	35.05	0.11	96.60	3.28
Haryana	45.92	0.79		46.71	51.36	52.66	1.30	99.37	2.73
Rajasthan	83.63	4.50	6.03	94.16	60.03	64.37	4.34	158.54	3.23
Delhi	30.01			30.01	30.75	26.87	-3.88	56.88	0.53
UP	101.60	8.55	2.40	112.54	82.81	82.76	-0.04	195.31	49.40
Uttarakhand		9.50		9.50	14.93	17.34	2.41	26.84	3.24
HP		8.08		8.08	13.14	14.62	1.48	22.70	0.37
J & K		9.39	0.00	9.39	22.91	25.16	2.26	34.56	1.90
Chandigarh				0.00	3.48	3.41	-0.07	3.41	0.00
Total	314.70	48.82	8.43	371.95	314.34	322.25	7.91	694.20	64.67

* 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	4722	265	-159	-198	3113	0	24	-131	-2.18	
Haryana	4780	259	-2	499	3894	0	-39	480	8.48	
Rajasthan	6565	273	-30	364	6695	0	246	700	17.93	
Delhi	3061	0	-167	-739	1545	0	-78	-1518	-25.46	
UP	7899	2158	-177	-256	8800	865	104	227	-5.01	
Uttarakhand	1492	90	180	245	1085	0	128	188	5.28	
HP	1098	48	81	-139	757	0	74	134	-0.11	
J&K	1688	100	-38	161	1340	0	69	175	3.09	
Chandigarh	188	0	-14	-15	91	0	-8	0	-0.08	
Total	31493	3193	-326	-78	27319	865	520	256	1.93	

* 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	2027	2081	46.68	1945	46.12	0.56
Rihand I STPS	1000	917	1017	923	22.07	920	22.01	0.06
Rihand II STPS	1000	970	1035	1043	23.44	977	23.28	0.16
Rihand III STPS	500	0	0	0	0.00	0		0.00
Dadri I STPS	840	810	852	856	18.45	769	18.63	-0.18
Dadri II STPS	980	470	505	503	11.05	461	10.90	0.16
Unchahar I TPS	420	405	414	434	9.61	400	9.64	-0.03
Unchahar II TPS	420	405	406	432	9.48	395	9.56	-0.08
Unchahar III TPS	210	202	212	218	4.78	199	4.74	0.04
ISTPP (Jhajhar)	1000	410	331	377	7.74	323	9.56	-1.82
Dadri GPS	830	830	592	613	14.03	585	14.61	-0.57
Anta GPS	419	407	333	277	6.99	291	6.97	0.02
Auraiya GPS	663	654	314	326	7.41	309	8.57	-1.16
Sub Total (A)	10282	8404	8038	8083	181.75	7573	184.59	-2.84
B. NPC								
NAPS	440	277	309	318	6.57	274	6.65	-0.08
RAPS- B	440	417	457	464	9.98	416	10.01	-0.03
RAPS- C	440	440	470	474	10.10	421	10.56	-0.46
Sub Total (B)	1320	1134	1236	1256	26.64	1110	27.22	-0.58
C. NHPC								
Chamera I HPS	540	540	360	0	3.08	128	3.05	0.03
Chamera II HPS	300	303	264	0	1.92	80	1.91	0.00
Chamera III HPS	231	174	136	0	1.16	48	1.16	0.00
Bairasuil HPS	180	120	20	0	0.81	34	0.73	0.07
Salai-HPS	690	180	323	219	4.46	186	4.25	0.21
Tanakpur-HPS	94	57	64	57	1.36	57	1.36	0.00
Uri-HPS	480	160	147	163	3.79	158	3.78	0.01
Dhauliganga-HPS	280	269	270	110	1.96	82	1.92	0.04
Dulhasi-HPS	390	387	355	37	4.44	185	4.52	-0.08
Sewa-II HPS	120	80	77	0	0.29	12	0.29	0.00
Sub Total (C)	3305	2270	2016	586	23.26	969	22.97	0.28
D.NJPC								
Nathpa Jhakri	1500	1605	1227	0	10.84	452	10.60	0.24
Sub Total (D)	1500	1605	1227	0	10.84	452	10.60	0.24
E. THDC								
Tehri HPS	1000	656	1052	0	5.16	215	5.00	0.16
Koteswar HPS	400	240	232	0	1.37	57	1.35	0.02
Sub Total (E)	1400	896	1284	0	6.53	272	6.35	0.18
F. BBMB								
Bhakra HPS	1480	342	620	306	8.35	348	8.21	0.14
Dehar HPS	990	214	495	145	5.36	223	5.14	0.22
Pong HPS	396	281	306	246	7.01	292	5.01	2.00
Sub Total (F)	2866	838	1421	697	20.72	863	18.36	2.36
G. IPP(s)/JV(s)								
ADHPL HPS(IPP)	192	0	41	0	0.81	34	0.78	0.03
KWHEP HPS(IPP)	1000	0	670	160	5.87	245	5.88	-0.01
Malana Stg-II HPS	100	0	16	16	0.40	17	0.37	0.03
Shree Cement TPS	300	0	272	234	6.14	256	5.97	0.18
Budhil HPS(IPP)	70	0	34	0	0.34	14	0.38	-0.04
Sub Total (G)	1662	0	1033	410	13.56	565	13.38	0.19
H. Total Regional Entities (A-G)	22336	15147	16255	11032	283.30	11804	283.46	-0.16

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	1263	1060	27.41	1142	
	Guru Nanak Dev TPS(Bhatinda)	440	316	202	6.10	254	
	Guru Hargobind Singh TPS(L.mbt)	920	957	711	20.04	835	
	Thermal (Total)	2620	2536	1973	53.54	2231	
	Total Hydro	1148	396	237	8.02	334	
	Total Punjab	3768	2932	2210	61.56	2565	
Haryana	Panipat TPS	1367	958	977	23.47	978	
	DCRTPP (Yamuna nagar)	600	0	0	0.00	0	
	Faridabad GPS (NTPC)	432	411	284	8.91	371	
	RGTPP (kheadar) (IPP)	1200	365	451	10.33	430	
	Magnum Diesel (IPP)	25	0	0	0.00	0	
	Jhajjar(CLP)	1320	386	0	3.21	134	
	Thermal (Total)	4944	2120	1712	45.92	1913	
	Total Hydro	62	25	34	0.79	33	
	Total Haryana	5006	2145	1746	46.71	1946	
Rajasthan	kota TPS	1240	1158	1170	27.76	1157	
	suratgarh TPS	1500	1302	1345	31.18	1299	
	Chabra TPS	500	228	383	6.21	259	
	Dholpur GPS	330	149	98	2.51	105	
	Ramgarh GPS	111	80	82	2.04	85	
	RAPS A (NPC)	300	173	173	4.14	173	
	Barsingar (NLC)	250	211	210	4.67	195	
	Giral LTPS	250	0	0	0.00	0	
	Rajwest LTPS (IPP)	540	290	167	5.12	213	
	VSLP LTPS (IPP)	135	0	0	0.00	0	
	Thermal (Total)	5156	3591	3628	83.63	3485	
	Total Hydro	550	152	195	4.50	188	
	Wind power	2191	6	42	0.69	29	
	Biomass	91	27	27	0.66	27	
	Solar	201	4	0	0.19	8	
	Renewable/Others (Total)	2483	33	69	6.03	251	
	Total Rajasthan	8189	3776	3892	94.16	3923	
	UP	Anpara TPS	1630	1276	1037	27.90	1163
		Obra TPS	1382	353	404	8.50	354
		Paricha TPS	890	536	425	11.30	471
Panki TPS		210	65	60	1.30	54	
Harduaganj TPS		665	215	240	4.90	204	
Tanda TPS (NTPC)		440	401	406	9.84	410	
Roza TPS (IPP)		1200	829	787	19.65	819	
Anpara-C (IPP)		1200	541	535	12.65	527	
Bajaj Energy Pvt.Ltd(IPP) TPS		450	203	266	5.57	232	
Thermal (Total)		8067	4419	4160	101.60	4233	
Vishnuparyag HPS (IPP)		400	148	139	3.35	140	
Other Hydro		527	141	0	5.20	217	
Cogeneration		981	100	100	2.40	100	
Total UP		9975	4808	4399	112.54	4550	
Uttarakhand		Total Hydro	1303	447	445	9.50	396
	Total Uttarakhand	1303	447	445	9.50	396	
Delhi	Raighat TPS	135	111	116	2.25	94	
	Delhi Gas Turbine	282	119	119	2.91	121	
	Pragati Gas Turbine	330	302	267	7.13	297	
	Rithala GPS	108	22	45	0.97	41	
	Bawana GPS	677	225	225	5.30	221	
	Badarpur TPS (NTPC)	705	500	505	11.45	477	
	Thermal (Total)	2237	1279	1277	30.01	1250	
	Total Delhi	2237	1279	1277	30.01	1250	
HP	Baspa HPS (IPP)	330	0	44	1.65	69	
	Malana HPS (IPP)	86	32	0	0.34	14	
	Other Hydro	589	211	208	6.09	254	
	Total HP	1005	243	252	8	336	
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	16064	14628	371.95	15358	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			1151	2427	46.46	1936	
Total Regional Availability(Gross)		54775	33470	28087	701.71	29098	

IV. Total Hydro Generation:

Regional Entities Hydro	10364	6675	1459	68.43	2851
State Control Area Hydro	5368	1838	1570	48.82	1895
Total Regional Hydro	15731	8513	3029	117.25	4746

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	-100	0	300	0.00	3.17	-3.17		
Gwalior-Agra (D/C)	0	337	742	0	7.68	0.00	7.68		
Zerda-Kankroli	-136	-29	62	240	0.00	2.16	-2.16		
Zerda-Bhinmal	-52	96	227	140	0.70	0.00	0.70		
Malanpur-Auraiya	-80	-112	0	115	0.00	2.68	-2.68		
Badod-Kota/Morak	-107	-25	18	108	0.00	1.43	-1.43		
Mundra-Mohindergarh(HVDC)	814	813	817	0	19.17	0.00	19.17		
Sub Total WR	339	980			27.54	9.44	18.10		
Pusauli Bypass	-200	-100	0	200	0.00	4.05	-4.05		
MZP- GKP (D/C)	340	512	580	0	10.80	0.00	10.80		
Patna-Balia(D/C)	156	413	453	0	6.94	0.00	6.94		
B'Sharif-Balia (D/C)	45	138	180	0	3.17	0.00	3.17		
Barh - Balia(D/C)	367	278	535	0	8.67	0.00	8.67		
Pusauli-Balia	0	91	139	0	0.39	0.00	0.39		
Gaya-Fatehpur (765 Kv)	0	0	0	0	0.00	0.00	0.00		
Pusauli-Sahupuri	144	149	165	0	3.35	0.00	3.35		
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	812	1447			33.33	4.97	28.36		
Total IR Exch	1151	2427			60.87	14.41	46.46		

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
35.82	1.15	36.97	-3.84	-6.79	-0.54	0.57	-4.68	4.79
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
27.91	15.28	43.20	28.36	18.10	46.46	0.44	2.82	3.27

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	0.00	4.06	97.33	93.27	60.40	2.67

<----- Frequency (Hz) ----->				Average Frequency	Frequency Variation Index	Std. Dev.	Frequency in 15 Min Block	
Maximum		Minimum					MAX (Hz)	MIN (Hz)
Freq	Time	Freq	Time	Hz				
50.47	18.47	49.63	7.22	50.04	0.20	0.11	50.33	49.83

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	19:26	403	7:08	0.0	0.0	0.0	0.0
Gorakhpur	400	430	15:29	413	10:40	0.0	0.0	44.0	0.0
Bareilly	400	425	21:01	408	18:09	0.0	0.0	7.9	0.0
Kanpur	400	422	20:59	402	9:11	0.0	0.0	0.7	0.0
Dadri	400	423	20:51	407	10:11	0.0	0.0	5.8	0.0
Ballabhgarh	400	431	20:54	411	9:10	0.0	0.0	57.3	0.6
Bawana	400	428	20:57	410	10:44	0.0	0.0	35.8	0.0
Bassi	400	433	20:24	403	9:12	0.0	0.0	43.0	2.5
Hissar	400	421	20:56	400	9:11	0.0	0.0	0.1	0.0
Moga	400	422	20:53	401	10:09	0.0	0.0	3.5	0.0
Abdullapur	400	426	20:53	409	10:43	0.0	0.0	7.7	0.0
Nalagarh	400	427	20:54	408	10:44	0.0	0.0	15.0	0.0
Kishenpur	400	425	3:29	397	10:44	0.0	0.0	6.5	0.0
Wagoora	400	422	3:31	377	19:06	2.5	28.9	0.4	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 30.10.2012 :

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 : 30.10.2012

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER