

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरसिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 11.11.2012

Date of Reporting : 12.11.2012

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
32051	2749	34800	50.04	27564	798	28362	50.16	706.2	39.16

* 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	53.57	8.04		61.61	27.94	27.96	0.02	89.58	2.23
Haryana	50.69	0.77		51.46	46.21	47.38	1.17	98.84	2.55
Rajasthan	84.58	4.91	9.60	99.08	64.57	63.82	-0.75	162.90	1.65
Delhi	30.94			30.94	27.94	24.49	-3.45	55.43	0.00
UP	117.12	6.64	1.68	125.44	85.06	81.51	-3.54	206.95	28.46
Uttarakhand		9.42		9.42	17.65	18.23	0.58	27.66	2.58
HP		6.66		6.66	15.13	16.41	1.29	23.07	0.00
J & K		9.18	0.00	9.18	26.91	29.46	2.56	38.64	1.70
Chandigarh				0.00	3.23	3.11	-0.11	3.11	0.00
Total	336.90	45.62	11.28	393.79	314.63	312.39	-2.24	706.18	39.16

* 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	4510	600	-113	-524	3068	0	8	-498	-8.90	
Haryana	4950	351	18	91	3680	0	202	101	1.90	
Rajasthan	6869	48	-49	776	6864	83	131	1111	23.55	
Delhi	2937	0	-122	-1369	1555	0	-73	-2239	-39.49	
UP	8316	1470	-666	92	9040	715	-186	573	6.57	
Uttarakhand	1460	180	-16	389	1078	0	72	347	8.59	
HP	1092	0	4	15	793	0	129	246	2.54	
J&K	1748	100	-119	428	1394	0	84	367	8.60	
Chandigarh	169	0	-20	0	93	0	2	-30	-0.47	
Total	32051	2749	-1082	-102	27564	798	370	-22	2.89	

* 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)	Schedule Net MU	UI [OG:(+ve), UG: (-ve)]	
								Net MU	UI
A. NTPC									
Singrauli STPS	2000	1935	2070	2068	46.91	1955	46.44	0.47	
Rihand I STPS	1000	460	502	506	11.13	464	11.04	0.09	
Rihand II STPS	1000	970	1017	1041	23.16	965	23.28	-0.13	
Rihand III STPS	500	0	0	0	0.00	0		0.00	
Dadri I STPS	840	810	856	854	18.93	789	19.25	-0.31	
Dadri II STPS	980	975	1003	1017	23.20	967	23.39	-0.19	
Unchahar I TPS	420	402	398	428	9.33	389	9.57	-0.24	
Unchahar II TPS	420	405	412	432	9.38	391	9.58	-0.21	
Unchahar III TPS	210	202	211	218	4.73	197	4.80	-0.07	
ISTPP (Jhajhar)	1000	901	503	648	15.01	625	15.46	-0.46	
Dadri GPS	830	834	400	550	12.63	526	12.85	-0.22	
Anta GPS	419	409	195	188	5.33	222	5.34	-0.01	
Auraiya GPS	663	657	276	292	7.26	303	7.43	-0.16	
Sub Total (A)	10282	8960	7843	8242	187.00	7792	188.44	-1.44	
B. NPC									
NAPS	440	277	312	320	6.62	276	6.65	-0.02	
RAPS- B	440	417	457	462	10.00	417	10.01	0.00	
RAPS- C	440	440	475	472	10.15	423	10.56	-0.41	
Sub Total (B)	1320	1134	1244	1254	26.78	1116	27.22	-0.44	
C. NHPC									
Chamera I HPS	540	550	360	0	2.63	110	2.62	0.01	
Chamera II HPS	300	303	259	0	1.84	77	1.79	0.04	
Chamera III HPS	231	231	79	0	1.12	47	1.09	0.02	
Bairasuil HPS	180	182	120	0	0.76	32	0.73	0.03	
Salai-HPS	690	125	219	133	3.02	126	2.97	0.05	
Tanakpur-HPS	94	47	57	43	1.09	45	1.11	-0.02	
Uri-HPS	480	126	236	30	2.89	120	2.58	0.31	
Dhauliganga-HPS	280	288	139	0	1.66	69	1.62	0.05	
Dulhasi-HPS	390	388	340	0	3.77	157	3.79	-0.02	
Sewa-II HPS	120	120	74	0	0.27	11	0.29	-0.02	
Sub Total (C)	3305	2358	1883	206	19.04	793	18.59	0.45	
D.NJPC									
Nathpa Jhakri	1500	1605	1008	0	9.79	408	9.50	0.29	
Sub Total (D)	1500	1605	1008	0	9.79	408	9.50	0.29	
E. THDC									
Tehri HPS	1000	656	960	0	5.23	218	5.00	0.23	
Koteswar HPS	400	310	301	0	1.18	49	1.15	0.03	
Sub Total (E)	1400	966	1261	0	6.42	267	6.15	0.27	
F. BBMB									
Bhakra HPS	1480	628	1150	415	15.71	655	15.08	0.63	
Dehar HPS	990	181	495	165	4.81	200	4.34	0.47	
Pong HPS	396	276	360	180	6.87	286	5.01	1.86	
Sub Total (F)	2866	1085	2005	760	27.39	1141	24.43	2.96	
G. IPP(s)/JV(s)									
ADHPL HPS(IPP)	192	0	0	0	0.67	28	0.65	0.02	
KWHEP HPS(IPP)	1000	0	360	0	5.15	215	5.16	-0.01	
Malana Stg-II HPS	100	0	31	12	0.37	15	0.33	0.04	
Shree Cement TPS	300	0	275	287	6.69	279	6.64	0.05	
Budhil HPS(IPP)	70	0	9	10	0.22	9	0.42	-0.20	
Sub Total (G)	1662	0	675	309	13.10	546	13.19	-0.09	
H. Total Regional Entities (A-G)	22336	16108	15919	10771	289.52	12063	287.52	2.00	

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	1146	1165	28.01	1167	
	Guru Nanak Dev TPS(Bhatinda)	440	225	195	4.10	171	
	Guru Hargobind Singh TPS(L.mbt)	920	963	960	21.46	894	
	Thermal (Total)	2620	2334	2320	53.57	2232	
	Total Hydro	1148	433	278	8.04	335	
	Total Punjab	3768	2767	2598	61.61	2567	
Haryana	Panipat TPS	1367	944	694	20.24	843	
	DCRTPP (Yamuna nagar)	600	0	0	0.00	0	
	Faridabad GPS (NTPC)	432	391	282	7.21	300	
	RGTPP (khedar) (IPP)	1200	526	469	12.85	535	
	Magnum Diesel (IPP)	25	0	0	0.00	0	
	Jhajjar(CLP)	1320	534	382	10.39	433	
	Thermal (Total)	4944	2395	1827	50.69	2112	
	Total Hydro	62	25	35	0.77	32	
	Total Haryana	5006	2420	1862	51.46	2144	
Rajasthan	kota TPS	1240	1169	1166	27.72	1155	
	suratgarh TPS	1500	1313	1132	29.24	1218	
	Chabra TPS	500	452	381	9.65	402	
	Dholpur GPS	330	149	138	3.45	144	
	Ramgarh GPS	111	73	73	1.90	79	
	RAPS A (NPC)	300	172	172	4.27	178	
	Barsingar (NLC)	250	106	108	2.47	103	
	Giral LTPS	250	0	0	0.00	0	
	Rajwest LTPS (IPP)	540	266	243	5.87	245	
	VSLP LTPS (IPP)	135	0	0	0.00	0	
	Thermal (Total)	5156	3700	3413	84.58	3524	
	Total Hydro	550	221	237	4.91	204	
	Wind power	2191	86	380	4.14	172	
	Biomass	91	19	19	0.45	19	
	Solar	201	3	0	0.11	4	
	Renewable/Others (Total)	2483	105	399	9.60	400	
	Total Rajasthan	8189	4026	4049	99.08	4128	
	UP	Anpara TPS	1630	1568	1550	33.50	1396
		Obra TPS	1382	543	474	11.20	467
Paricha TPS		890	598	660	13.40	558	
Panki TPS		210	135	115	2.90	121	
Harduaganj TPS		665	152	180	3.60	150	
Tanda TPS (NTPC)		440	394	402	9.68	403	
Roza TPS (IPP)		1200	1054	1062	25.77	1074	
Anpara-C (IPP)		1200	734	456	12.90	537	
Bajaj Energy Pvt.Ltd(IPP) TPS		450	203	203	4.18	174	
Thermal (Total)		8067	5381	5102	117.12	4880	
Vishnuparyag HPS (IPP)		400	124	119	2.89	120	
Other Hydro		527	53	193	3.76	156	
Cogeneration		981	70	70	1.68	70	
Total UP		9975	5628	5484	125.44	5106	
Uttarakhand		Total Hydro	1303	485	341	9.42	393
	Total Uttarakhand	1303	485	341	9.42	393	
Delhi	Raighat TPS	135	101	108	2.16	90	
	Delhi Gas Turbine	282	113	157	3.35	140	
	Pragati Gas Turbine	330	299	263	7.23	301	
	Rithala GPS	108	0	21	0.03	1	
	Bawana GPS	677	278	228	6.05	252	
	Badarpur TPS (NTPC)	705	580	520	12.13	505	
	Thermal (Total)	2237	1371	1297	30.94	1289	
	Total Delhi	2237	1371	1297	30.94	1289	
HP	Baspa HPS (IPP)	330	0	33	1.42	59	
	Malana HPS (IPP)	86	43	17	0.37	15	
	Other Hydro	589	216	158	4.87	203	
	Total HP	1005	259	208	7	277	
J & K	Baglihar HPS (IPP)	450	148	144	6.00	250	
	Other Hydro	323	120	175	3.18	133	
	Gas/Diesel/Others	183	0	0	0.00	0	
	Total J & K	956	268	319	9.18	383	
Total State Control Area Generation		32439	17224	16158	393.79	16288	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			390	1721	34.57	1440	
Total Regional Availability(Gross)		54775	33533	28650	717.88	29791	

IV. Total Hydro Generation:

Regional Entities Hydro	10364	6548	978	68.83	2868
State Control Area Hydro	5368	1744	1611	45.62	1780
Total Regional Hydro	15731	8292	2589	114.45	4648

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	-400	-400	0	400	0.00	8.10			-8.10
Gwalior-Agra (D/C)	-348	113	269	348	0.92	0.00			0.92
Zerda-Kankroli	-255	-85	0	255	0.00	3.55			-3.55
Zerda-Bhinmal	-174	13	76	224	0.00	0.98			-0.98
Malanpur-Auraiya	-259	-161	0	259	0.00	4.25			-4.25
Badod-Kota/Morak	-186	-76	3	195	0.00	2.95			-2.95
Mundra-Mohindergarh(HVDC)	738	737	744	0	17.79	0.00			17.79
Sub Total WR	-884	141			18.71	19.84			-1.13
Pusauli Bypass	250	250	250	0	6.10	0.00			6.10
MZP- GKP (D/C)	182	460	522	0	9.06	0.00			9.06
Patna-Balia(D/C)	169	198	289	0	5.12	0.00			5.12
B'Sharif-Balia (D/C)	450	276	451	0	5.89	0.00			5.89
Barh - Balia(D/C)	159	197	348	0	4.83	0.00			4.83
Pusauli-Balia	-139	-40	0	146	0.00	1.36			-1.36
Gaya-Fatehpur (765 Kv)	97	141	240	0	3.76	0.00			3.76
Pusauli-Sahupuri	146	132	159	0	3.25	0.00			3.25
K'nasa-Sahupuri	0	0	0	0	0.00	0.00			0.00
Son Ngr-Rihand	-40	-34	0	46	0.00	0.95			-0.95
Garhwa-Rihand	0	0	0	0	0.00	0.00			0.00
Sub Total ER	1274	1580			38.01	2.31			35.70
Total IR Exch	390	1721			56.73	22.15			34.57

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
33.84	0.85	34.68	9.02	-20.06	-0.73	3.01	2.77	-2.70
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
45.75	-4.18	41.57	35.70	-1.13	34.57	-10.05	3.05	-7.00

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	2.00	95.60	93.40	40.02	4.40
<----- Frequency (Hz) ----->				Average Frequency	Frequency Variation Index	Std. Dev.	Frequency in 15 Min Block	
Maximum		Minimum					MAX	MIN
Freq	Time	Freq	Time	Hz			(Hz)	(Hz)
50.42	17.03	49.55	8.39	49.97	0.18	0.13	50.37	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	411	2:35	406	12:23	0.0	0.0	0.0	0.0
Gorakhpur	400	431	17:06	414	11:28	0.0	0.0	66.9	0.4
Bareilly	400	419	16:04	401	10:19	0.0	0.0	0.0	0.0
Kanpur	400	419	2:59	404	10:19	0.0	0.0	0.0	0.0
Dadri	400	424	3:03	416	22:21	0.0	0.0	60.8	0.0
Ballabhgarh	400	430	2:59	413	10:19	0.0	0.0	57.8	0.0
Bawana	400	429	3:14	414	10:38	0.0	0.0	49.9	0.0
Bassi	400	429	3:59	407	8:38	0.0	0.0	29.4	0.0
Hissar	400	418	3:03	402	10:38	0.0	0.0	0.0	0.0
Moga	400	426	3:03	408	10:35	0.0	0.0	19.0	0.0
Abdullapur	400	427	3:15	295	17:59	0.1	0.1	33.5	0.0
Nalagarh	400	428	3:15	414	11:07	0.0	0.0	41.6	0.0
Kishenpur	400	424	2:26	397	18:19	0.0	0.0	8.5	0.0
Wagoora	400	414	0:43	375	18:18	10.7	42.8	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	503.59	1245.57	509.44	1515.08	215.09	417.53
Pong	426.72	384.05	418.84	834.92	419.90	889.22	91.35	404.73
Tehri	829.79	740.04	824.00	1086.79	818.65	982.26	71.08	106.00
Koteswar	612.50	598.50	NA	NA	NA	NA	NA	NA
Chamera-I	760.00	748.75	NA	NA	NA	NA	70.59	70.59
Rihand	268.22	252.98	NA	500.10	264.96	617.70	NA	NA
RPS	352.80	343.81	351.34	NA	350.67	NA	NA	257.26
Jawahar Sagar	298.70	295.78	297.79	NA	297.67	NA	NA	241.63
RSD	527.91	487.91	520.87	NA	521.76	NA	70.79	78.83

* NA: Not Available

IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

XI. Weather Conditions For 11.11.2012 :

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 : 11.11.2012

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER