

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पवरसिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 07.11.2012
Date of Reporting : 08.11.2012

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
31754	3524	35278	50.14	26889	1045	27934	50.09	700.6	53.54

* 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	53.01	9.41		62.42	31.09	31.83	0.74	94.24	2.42
Haryana	52.67	0.80		53.47	50.06	49.55	-0.51	103.02	1.72
Rajasthan	85.50	3.65	4.98	94.13	65.76	65.91	0.15	160.03	1.30
Delhi	32.80			32.80	28.15	25.03	-3.11	57.83	0.29
UP	104.29	7.82	1.68	113.80	82.71	81.44	-1.27	195.23	43.61
Uttarakhand		9.29		9.29	17.65	19.52	1.87	28.81	2.00
HP		7.44		7.44	14.71	16.41	1.70	23.85	0.50
J & K		7.42	0.00	7.42	26.29	26.57	0.28	33.99	1.70
Chandigarh				0.00	3.44	3.54	0.10	3.54	0.00
Total	328.27	45.83	6.66	380.76	319.85	319.79	-0.06	700.56	53.54

* 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	
Punjab	4629	600	11	-363	3312	0	32	-618	-7.15
Haryana	4632	400	-105	125	3504	0	8	117	2.03
Rajasthan	6729	0	-67	1019	6677	0	81	1096	24.23
Delhi	3013	11	-136	-1329	1483	0	-92	-2154	-38.29
UP	8048	2333	-52	-40	8583	1045	5	573	3.59
Uttarakhand	1558	80	134	379	1045	0	12	313	8.51
HP	1173	0	43	34	817	0	91	257	2.00
J&K	1778	100	-161	448	1376	0	-45	369	7.86
Chandigarh	194	0	-20	-5	92	0	0	-30	-0.32
Total	31754	3524	-353	267	26889	1045	93	-77	2.45

* STOA figures are at sellers boundary & PX figures are at regional boundary.

III. Regional Entities :

Entity	Station/ Constituent	Inst. Capacity (Effective) MW	Declared Capacity(MW)	Peak MW	Off Peak MW	Energy	Average	Schedule	UI
				(Gross)	(Gross)	(Net MU)	Sentout(MW)	Net MU	Net MU
A. NTPC	Singrauli STPS	2000	1930	2063	2085	46.14	1923	46.32	-0.18
	Rihand I STPS	1000	460	506	507	11.06	461	11.04	0.02
	Rihand II STPS	1000	970	1027	1038	23.31	971	23.28	0.03
	Rihand III STPS	500		0	0	0.00	0		0.00
	Dadri I STPS	840	810	845	810	18.92	788	18.19	-0.27
	Dadri II STPS	980	975	1020	1025	23.35	973	23.40	-0.05
	Unchahar I TPS	420	324	426	220	7.54	314	7.74	-0.19
	Unchahar II TPS	420	405	400	435	9.51	396	9.56	-0.05
	Unchahar III TPS	210	202	223	221	4.79	199	4.81	-0.02
	ISTPP (Jhajihar)	1000	850	883	757	19.59	816	18.72	0.87
	Dadri GPS	830	834	505	547	13.55	565	13.97	-0.42
	Anta GPS	419	409	221	262	6.16	257	6.28	-0.13
	Auraiya GPS	663	655	315	325	7.53	314	8.45	-0.92
	Sub Total (A)		10282	8825	8434	8232	191.45	7977	192.76
B. NPC	NAPS	440	277	277	317	6.61	275	6.65	-0.09
	RAPS- B	440	417	462	459	10.00	417	10.01	-0.01
	RAPS- C	440	440	470	476	10.15	423	10.56	-0.41
	Sub Total (B)		1320	1134	1241	1252	26.76	1115	27.22
C. NHPC	Chamera I HPS	540	545	180	0	2.36	98	2.36	0.00
	Chamera II HPS	300	303	273	0	1.87	78	1.86	0.01
	Chamera III HPS	231	231	232	0	1.14	48	1.06	0.08
	Bairasuil HPS	180	120	30	0	0.74	31	0.77	-0.03
	Salal-HPS	690	175	252	197	4.39	183	4.28	0.11
	Tanakpur-HPS	94	48	60	53	1.16	48	1.14	0.02
	Uri-HPS	480	137	230	88	3.30	138	3.13	0.17
	Dhauliganga-HPS	280	233	216	0	1.78	74	1.75	0.03
	Dulhasti-HPS	390	364	351	11	3.99	166	4.01	-0.03
	Sewa-II HPS	120	120	64	0	0.29	12	0.29	0.00
Sub Total (C)		3305	2275	1888	349	21.02	876	20.65	0.37
D.NJPC	Nathpa Jhakri	1500	1605	1015	0	9.89	412	9.75	0.15
	Sub Total (D)		1500	1605	1015	0	9.89	412	9.75
E. THDC	Tehri HPS	1000	656	935	0	5.11	213	5.00	0.11
	Koteshwar HPS	400	240	235	0	1.67	69	1.65	0.02
Sub Total (E)		1400	896	1170	0	6.78	282	6.65	0.13
F. BBMB	Bhakra HPS	1480	613	1145	409	15.13	630	14.72	0.41
	Dehar HPS	990	174	495	165	4.31	180	4.18	0.13
	Pong HPS	396	280	306	246	6.99	291	5.01	1.98
	Sub Total (F)		2866	1067	1946	820	26.43	1101	23.91
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	0	0	0.72	30	0.65	0.07
	KWHEP HPS(IPP)	1000	0	480	0	5.50	229	5.52	-0.02
	Malana Stg-II HPS	100	0	36	14	0.32	13	0.29	0.03
	Shree Cement TPS	300	0	273	225	6.55	273	6.45	0.10
	Budhil HPS(IPP)	70	0	11	11	0.28	12	0.42	-0.14
	Sub Total (G)		1662	0	800	250	13.37	557	13.32
H. Total Regional Entities (A-G)		22336	15802	16494	10903	295.69	12321	294.25	1.44

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	1174	1263	28.15	1173
	Guru Nanak Dev TPS(Bhatinda)	440	205	105	3.46	144
	Guru Hargobind Singh TPS(L.mbt)	920	969	966	21.40	892
	Thermal (Total)	2620	2348	2334	53.01	2209
	Total Hydro	1148	348	280	9.41	392
	Total Punjab	3768	2696	2614	62.42	2601
Haryana	Panipat TPS	1367	936	859	20.99	875
	DCRTPP (Yamuna nagar)	600	0	0	0.00	0
	Faridabad GPS (NTPC)	432	400	283	9.38	391
	RGTPP (khedar) (IPP)	1200	486	532	13.23	551
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	1320	383	0	9.08	378
	Thermal (Total)	4944	2205	1674	52.67	2195
	Total Hydro	62	31	34	0.80	33
	Total Haryana	5006	2236	1708	53.47	2228
	Rajasthan	kota TPS	1240	1045	945	23.89
suratgarh TPS		1500	1308	1125	28.04	1168
Chabra TPS		500	413	432	9.72	405
Dholpur GPS		330	207	139	3.47	145
Ramgarh GPS		111	60	73	1.75	73
RAPS A (NPC)		300	173	173	4.20	175
Barsingsar (NLC)		250	194	194	4.63	193
Giral LTPS		250	0	0	0.00	0
Rajwest LTPS (IPP)		540	365	398	9.81	409
VSLP LTPS (IPP)		135	0	0	0.00	0
Thermal (Total)		5156	3765	3479	85.50	3562
Total Hydro		550	159	191	3.65	152
Wind power		2191	0	108	0.71	30
Biomass		91	20	20	0.48	20
Solar		201	5	0	0.14	6
Renewable/Others (Total)		2483	20	128	4.98	208
Total Rajasthan		8189	3944	3798	94.13	3922
UP	Anpara TPS	1630	1080	1132	24.50	1021
	Obra TPS	1382	399	494	9.50	396
	Paricha TPS	890	677	650	14.40	600
	Panki TPS	210	115	130	2.20	92
	Harduaganj TPS	665	165	160	3.40	142
	Tanda TPS (NTPC)	440	398	401	9.74	406
	Roza TPS (IPP)	1200	990	1106	25.86	1077
	Anpara-C (IPP)	1200	378	365	8.91	371
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	243	243	5.78	241
	Thermal (Total)	8067	4445	4681	104.29	4346
	Vishnuparyag HPS (IPP)	400	138	124	3.02	126
	Other Hydro	527	244	188	4.81	200
	Cogeneration	981	70	70	1.68	70
	Total UP	9975	4897	5063	113.80	4616
Uttarakhand	Total Hydro	1303	434	413	9.29	387
	Total Uttarakhand	1303	434	413	9.29	387
Delhi	Raighat TPS	135	103	101	2.64	110
	Delhi Gas Turbine	282	156	121	3.57	149
	Pragati Gas Turbine	330	309	260	7.41	309
	Rithala GPS	108	31	22	0.72	30
	Bawana GPS	677	305	226	6.73	280
	Badarpur TPS (NTPC)	705	530	490	11.74	489
	Thermal (Total)	2237	1434	1220	32.80	1367
Total Delhi	2237	1434	1220	32.80	1367	
HP	Baspa HPS (IPP)	330	28	0	1.49	62
	Malana HPS (IPP)	86	43	0	0.36	15
	Other Hydro	589	238	175	5.58	233
	Total HP	1005	309	175	7	310
J & K	Baglihar HPS (IPP)	450	294	146	4.24	177
	Other Hydro	323	120	175	3.18	133
	Gas/Diesel/Others	183	0	0	0.00	0
	Total J & K	956	414	321	7.42	309
Total State Control Area Generation		32439	16364	15312	380.76	15740
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			117	2246	36.57	1524
Total Regional Availability(Gross)		54775	32975	28461	713.03	29584

IV. Total Hydro Generation:

Regional Entities Hydro	10364	6535	1183	70.66	2944
State Control Area Hydro	5368	1939	1602	45.83	1784
Total Regional Hydro	15731	8474	2785	116.48	4728

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	
Vindhychal B/B	-200	-100	100	200	0.31	2.58	-2.27
Gwalior-Agra (D/C)	-269	149	288	269	0.79	0.00	0.79
Zerda-Kankroli	-243	-50	0	278	0.00	3.93	-3.93
Zerda-Bhinmal	-136	38	80	226	0.00	1.36	-1.36
Malanpur-Auraiya	-188	-158	0	282	0.00	3.56	-3.56
Badod-Kota/Morak	-165	-109	0	124	0.00	3.26	-3.26
Mundra-Mohindergarh(HVDC)	738	649	739	0	17.16	0.00	17.16
Sub Total WR	-463	419			18.25	14.69	3.56
Pusauli Bypass	50	50	50	0	1.28	0.00	1.28
MZP- GKP (D/C)	126	562	594	0	9.89	0.00	9.89
Patna-Balia(D/C)	0	269	279	0	1.43	0.00	1.43
B'Sharif-Balia (D/C)	78	326	363	0	7.09	0.00	7.09
Barh - Balia(D/C)	206	327	423	0	7.77	0.00	7.77
Pusauli-Balia	-83	-39	0	90	0.00	1.01	-1.01
Gaya-Fatehpur (765 Kv)	95	215	269	0	4.30	0.00	4.30
Pusauli-Sahupuri	148	151	151	0	3.22	0.00	3.22
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	580	1827			34.98	1.96	33.01
Total IR Exch	117	2246			53.23	16.66	36.57

V(B). Inter Regional Schedule & Actual Exchanges [Import (+ve)/Export (-ve)] [Corridor wise]

ER	ISGS/LT Schedule (MU)		Bilateral Schedule (MU)		Power Exchange Shdl (MU)		Wheeling (MU)	
	Bhutan	Total	Through ER	Through WR	Through ER	Through WR	Through ER	Through WR
32.97	0.96	33.92	9.10	-20.31	-0.41	2.33	2.93	-2.86

Total IR Schedule (MU)			Total IR Actual (MU)			Net IR UI (MU)		
Through ER	Through WR Incld Mndra	Total	Through ER	Through WR	Total	Through ER	Through WR	Total
45.54	-5.35	40.19	33.01	3.56	36.57	-12.53	8.91	-3.62

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	0.20	4.80	89.90	85.30	40.70	9.90

<----- 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				
50.48	14.01	49.48	6.54	49.97	0.31	0.17	50.43	49.72

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	415	20:39	408	10:57	0.0	0.0	0.0	0.0
Gorakhpur	400	434	16:24	421	9:26	0.0	0.0	100.0	6.4
Bareilly	400	422	16:04	404	5:54	0.0	0.0	1.1	0.0
Kanpur	400	422	3:04	407	8:34	0.0	0.0	4.0	0.0
Dadri	400	424	2:59	410	11:03	0.0	0.0	27.9	0.0
Ballabgarh	400	431	3:04	413	9:38	0.0	0.0	64.5	0.2
Bawana	400	426	20:35	410	9:30	82.7	82.7	17.3	0.0
Bassi	400	432	20:40	406	8:29	0.0	0.0	54.3	0.7
Hissar	400	420	3:05	402	11:23	0.0	0.0	0.0	0.0
Moga	400	425	3:05	401	11:29	16.1	16.1	13.9	0.0
Abdullapur	400	425	3:00	410	11:19	0.0	0.0	28.4	0.0
Nalagarh	400	428	3:02	411	5:52	0.0	0.0	31.3	0.0
Kishenpur	400	424	3:05	394	18:27	0.0	0.0	4.4	0.0
Wagoora	400	417	3:08	374	18:37	3.0	18.1	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 (m ³ /s)	Usage (m ³ /s)
Bhakra	513.59	445.62	503.81	1258.87	509.50	1530.03	226.39	368.12
Pong	426.72	384.05	419.09	848.35	420.02	889.22	96.28	409.66
Tehri	829.79	740.04	824.15	1086.79	818.65	982.26	71.04	114.00
Koteswar	612.50	598.50	599.90	0.45	NA	NA	114.00	90.00
Chamera-I	760.00	748.75	NA	NA	NA	NA	72.63	66.48
Rihand	268.22	252.98	263.38	504.00	265.05	617.70	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	520.97	NA	521.34	NA	74.98	104.77

* NA: Not Available
IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

XI. Weather Conditions For 07.11.2012 :
Normal

XII. Synchronisation of new generating units :
1. IGSTPS(Jhajjar)#3 first time synchronised at 11.12hrs.

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 : 07.11.2012

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER