

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरसिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 15.11.2012

Date of Reporting : 16.11.2012

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
31334	1950	33284	50.27	26429	750	27179	50.08	681.8	37.26

* 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	44.52	7.39		51.91	34.58	32.10	-2.48	84.01	1.80
Haryana	46.11	0.67		46.78	46.60	47.01	0.41	93.79	0.23
Rajasthan	85.29	5.53	7.01	97.83	60.97	59.35	-1.62	157.18	0.00
Delhi	26.09			26.09	30.22	27.54	-2.68	53.62	0.00
UP	117.53	6.63	1.68	125.84	80.92	79.72	-1.20	205.56	33.21
Uttarakhand		8.53		8.53	17.56	18.43	0.88	26.96	0.24
HP		6.87		6.87	12.38	13.71	1.33	20.58	0.08
J & K		9.58	0.00	9.58	27.29	27.17	-0.12	36.75	1.70
Chandigarh				0.00	3.31	3.35	0.04	3.35	0.00
Total	319.53	45.20	8.69	373.42	313.82	308.38	-5.44	681.80	37.26

* 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	4427	600	-293	19	2678	0	34	-226	0.38	
Haryana	4551	0	30	76	3559	0	33	17	0.99	
Rajasthan	6331	0	-38	262	6376	0	-133	847	19.12	
Delhi	2892	0	-79	-790	1504	0	37	-2040	-32.98	
UP	8682	1250	-238	-56	9249	750	115	539	6.46	
Uttarakhand	1476	0	83	400	950	0	-49	359	8.93	
HP	1057	0	63	-255	551	0	67	47	0.79	
J&K	1732	100	-239	508	1467	0	-70	462	9.99	
Chandigarh	187	0	-12	0	96	0	5	-31	-0.26	
Total	31334	1950	-723	163	26429	750	38	-24	13.43	

* 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	1435	490	1404	33.40	1392	33.93	-0.53
Rihand I STPS	1000	460	1037	500	10.89	454	10.94	-0.04
Rihand II STPS	1000	975	1032	1028	22.69	945	23.39	-0.70
Rihand III STPS	500	0	0	0	0.00	0		0.00
Dadri I STPS	840	810	646	738	17.67	736	18.16	-0.50
Dadri II STPS	980	975	961	1016	22.32	930	23.08	-0.76
Unchahar I TPS	420	402	416	412	8.86	369	9.23	-0.37
Unchahar II TPS	420	405	419	413	8.62	359	8.99	-0.37
Unchahar III TPS	210	202	219	201	4.34	181	4.52	-0.18
ISTPP (Jhajihar)	1500	780	395	650	13.92	580	14.26	-0.35
Dadri GPS	830	836	494	507	12.04	502	12.06	-0.03
Anta GPS	419	409	183	213	5.07	211	5.12	-0.04
Auraiya GPS	663	657	249	301	6.46	269	6.19	0.28
Sub Total (A)	10782	8346	6541	7383	166.27	6928	169.87	-3.60
B. NPC								
NAPS	440	277	317	319	6.71	280	6.65	0.06
RAPS- B	440	417	463	459	10.08	420	10.01	0.07
RAPS- C	440	440	473	473	10.15	423	10.56	-0.41
Sub Total (B)	1320	1134	1253	1251	26.94	1123	27.22	-0.27
C. NHPC								
Chamera I HPS	540	545	360	0	1.86	78	2.00	-0.14
Chamera II HPS	300	303	302	0	1.81	76	1.89	-0.08
Chamera III HPS	231	231	225	0	1.15	48	1.14	0.01
Bairasuil HPS	180	182	20	0	0.59	25	0.72	-0.13
Salai-HPS	690	133	222	145	3.19	133	2.91	0.28
Tanakpur-HPS	94	45	67	45	1.08	45	1.07	0.01
Uri-HPS	480	113	234	51	2.53	106	2.46	0.08
Dhauliganga-HPS	280	288	286	0	1.65	69	1.68	-0.03
Dulhasi-HPS	390	388	369	0	3.72	155	4.01	-0.29
Sewa-II HPS	120	120	78	0	0.26	11	0.25	0.02
Sub Total (C)	3305	2347	2163	241	17.86	744	18.12	-0.26
D.NJPC								
Nathpa Jhakri	1500	1605	1385	0	8.99	375	9.01	-0.01
Sub Total (D)	1500	1605	1385	0	8.99	375	9.01	-0.01
E. THDC								
Tehri HPS	1000	1050	1002	0	5.07	211	5.00	0.07
Koteswar HPS	400	310	311	0	1.32	55	1.35	-0.03
Sub Total (E)	1400	1360	1313	0	6.39	266	6.35	0.04
F. BBMB								
Bhakra HPS	1480	648	1099	413	15.91	663	15.55	0.36
Dehar HPS	990	185	495	165	4.67	195	4.45	0.23
Pong HPS	396	338	366	366	3.54	148	5.01	-1.47
Sub Total (F)	2866	1171	1960	944	24.12	1005	25.00	-0.88
G. IPP(s)/JV(s)								
ADHPL HPS(IPP)	192	0	0	0	0.62	26	0.65	-0.03
KWHEP HPS(IPP)	1000	0	363	0	4.67	195	4.78	-0.10
Malana Stg-II HPS	100	0	15	13	0.28	12	0.28	0.00
Shree Cement TPS	300	0	275	262	5.85	244	5.84	0.00
Budhil HPS(IPP)	70	0	9	0	0.22	9	0.42	-0.20
Sub Total (G)	1662	0	662	275	11.64	485	11.97	-0.33
H. Total Regional Entities (A-G)	22836	15964	15277	10094	262.21	10926	267.53	-5.32

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	1261	1060	26.06	1086	
	Guru Nanak Dev TPS(Bhatinda)	440	215	120	3.42	142	
	Guru Hargobind Singh TPS(L.mbt)	920	753	654	15.04	627	
	Thermal (Total)	2620	2229	1834	44.52	1855	
	Total Hydro	1148	292	263	7.39	308	
	Total Punjab	3768	2521	2097	51.91	2163	
Haryana	Panipat TPS	1367	938	884	21.80	908	
	DCRTPP (Yamuna nagar)	600	0	0	0.00	0	
	Faridabad GPS (NTPC)	432	104	104	2.35	98	
	RGTPP (kheadar) (IPP)	1200	476	546	11.88	495	
	Magnum Diesel (IPP)	25	0	0	0.00	0	
	Jhajjar(CLP)	1320	617	382	10.09	420	
	Thermal (Total)	4944	2135	1916	46.11	1921	
	Total Hydro	62	24	28	0.67	28	
	Total Haryana	5006	2159	1944	46.78	1949	
Rajasthan	kota TPS	1240	1170	1163	27.07	1128	
	suratgarh TPS	1500	1131	1119	25.79	1074	
	Chabra TPS	500	450	379	8.78	366	
	Dholpur GPS	330	142	138	3.42	142	
	Ramgarh GPS	111	73	74	1.92	80	
	RAPS A (NPC)	300	172	172	4.28	178	
	Barsingar (NLC)	250	106	105	2.43	101	
	Giral LTPS	250	63	50	1.32	55	
	Rajwest LTPS (IPP)	540	365	486	10.29	429	
	VSLP LTPS (IPP)	135	0	0	0.00	0	
	Thermal (Total)	5156	3672	3686	85.29	3554	
	Total Hydro	550	234	231	5.53	230	
	Wind power	2191	22	68	0.89	37	
	Biomass	91	20	20	0.48	20	
	Solar	201	1	0	0.12	5	
	Renewable/Others (Total)	2483	42	88	7.01	292	
	Total Rajasthan	8189	3948	4005	97.83	4076	
	UP	Anpara TPS	1630	1386	1495	30.10	1254
		Obra TPS	1382	536	540	11.90	496
		Paricha TPS	890	245	427	8.20	342
Panki TPS		210	170	145	3.40	142	
Harduaganj TPS		665	201	227	4.70	196	
Tanda TPS (NTPC)		440	396	395	9.70	404	
Roza TPS (IPP)		1200	1044	1053	25.04	1043	
Anpara-C (IPP)		1200	841	844	19.72	822	
Bajaj Energy Pvt.Ltd(IPP) TPS		450	202	203	4.78	199	
Thermal (Total)		8067	5021	5329	117.53	4897	
Vishnuparyag HPS (IPP)		400	123	115	2.81	117	
Other Hydro		527	160	237	3.82	159	
Cogeneration		981	70	70	1.68	70	
Total UP		9975	5374	5751	125.84	5126	
Uttarakhand		Total Hydro	1303	403	343	8.53	355
	Total Uttarakhand	1303	403	343	8.53	355	
Delhi	Raighat TPS	135	45	112	1.00	42	
	Delhi Gas Turbine	282	84	84	1.97	82	
	Pragati Gas Turbine	330	307	317	7.45	310	
	Rithala GPS	108	0	0	0.00	0	
	Bawana GPS	677	219	236	5.73	239	
	Badarpur TPS (NTPC)	705	430	430	9.94	414	
	Thermal (Total)	2237	1085	1179	26.09	1087	
	Total Delhi	2237	1085	1179	26.09	1087	
HP	Baspa HPS (IPP)	330	0	62	1.67	70	
	Malana HPS (IPP)	86	42	12	0.31	13	
	Other Hydro	589	213	167	4.89	204	
	Total HP	1005	255	241	7	286	
J & K	Baglihar HPS (IPP)	450	254	288	6.40	267	
	Other Hydro	323	120	175	3.18	133	
	Gas/Diesel/Others	183	0	0	0.00	0	
	Total J & K	956	374	463	9.58	399	
Total State Control Area Generation		32439	16119	16023	373.42	15442	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			1407	1919	51.78	2157	
Total Regional Availability(Gross)		55275	32803	28036	687.41	28525	

IV. Total Hydro Generation:

Regional Entities Hydro	10364	7199	1198	62.93	2622
State Control Area Hydro	5368	1742	1806	45.20	1766
Total Regional Hydro	15731	8941	3004	108.13	4388

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	-400	-500	0	500	0.00	9.76	-9.76
Gwalior-Agra (D/C)	171	224	552	0	8.04	0.00	8.04
Zerda-Kankroli	-91	-102	0	147	0.00	1.71	-1.71
Zerda-Bhinmal	-28	3	134	77	0.55	0.00	0.55
Malanpur-Auraiya	-141	-129	0	141	0.00	2.71	-2.71
Badod-Kota/Morak	-126	-121	0	129	0.00	2.36	-2.36
Mundra-Mohindergarh(HVDC)	848	844	848	0	20.41	0.00	20.41
Sub Total WR	233	219			29.00	16.54	12.46
Pusauli Bypass	250	250	250	0	5.44	0.00	5.44
MZP- GKP (D/C)	300	440	524	0	9.30	0.00	9.30
Patna-Balia(D/C)	226	267	327	0	6.38	0.00	6.38
B'Sharif-Balia (D/C)	74	226	350	0	5.64	0.00	5.64
Barh - Balia(D/C)	222	321	359	0	7.25	0.00	7.25
Pusauli-Balia	-169	-31	0	179	0.00	1.09	-1.09
Gaya-Fatehpur (765 Kv)	132	124	269	0	3.91	0.00	3.91
Pusauli-Sahupuri	179	137	175	0	3.44	0.00	3.44
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	1174	1700			41.36	2.04	39.32
Total IR Exch	1407	1919			70.36	18.58	51.78

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
33.64	0.67	34.31	8.23	-14.24	-0.73	10.17	2.64	-2.56
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
44.45	16.17	60.62	39.32	12.46	51.78	-5.13	-3.71	-8.84

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	0.30	86.00	85.70	68.10	14.00

<----- 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				
50.63	14.02	49.63	17.54	50.06	0.20	0.13	50.48	49.99

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	417	21:58	0	22:09	0.5	0.5	0.0	0.0
Gorakhpur	400	433	15:04	420	10:55	0.0	0.0	91.3	6.7
Bareilly	400	423	17:06	406	9:38	0.0	0.0	0.6	0.0
Kanpur	400	425	4:10	407	9:25	0.0	0.0	14.1	0.0
Dadri	400	428	4:33	414	17:53	0.0	0.0	53.8	0.0
Ballabhgarh	400	435	4:10	414	9:25	0.0	0.0	78.5	10.0
Bawana	400	431	4:35	413	17:54	0.0	0.0	61.0	0.1
Bassi	400	433	4:11	411	7:49	0.0	0.0	62.8	4.9
Hissar	400	421	4:02	403	17:54	0.0	0.0	1.8	0.0
Moga	400	428	0:00	404	18:26	0.0	0.0	32.1	0.0
Abdullapur	400	429	4:04	416	10:26	0.0	0.0	62.4	0.0
Nalagarh	400	433	0:00	412	17:37	0.0	0.0	58.3	9.0
Kishenpur	400	428	13:59	390	18:11	0.0	0.0	6.1	0.0
Wagoora	400	430	14:37	0	13:59	11.8	29.2	0.7	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	502.66	1209.87	508.90	1500.16	222.83	435.40
Pong	426.72	384.05	417.81	794.52	419.10	848.35	60.77	507.35
Tehri	829.79	740.04	823.35	1065.84	818.65	982.26	69.98	110.00
Koteswar	612.50	598.50	NA	NA	NA	NA	NA	NA
Chamera-I	760.00	748.75	NA	NA	NA	NA	61.93	50.50
Rihand	268.22	252.98	262.95	500.10	264.81	617.70	NA	NA
RPS	352.80	343.81	NA	NA	NA	NA	NA	NA
Jawahar Sagar	298.70	295.78	NA	NA	NA	NA	NA	NA
RSD	527.91	487.91	520.96	NA	519.58	NA	62.47	41.23

* NA: Not Available

IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

XI. Weather Conditions For 15.11.2012 :

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 : 15.11.2012

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER