

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरसिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 18.11.2012

Date of Reporting : 19.11.2012

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
31688	3051	34738	50.26	26709	840	27549	50.28	682.0	44.88

* 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	42.38	9.52		51.91	33.10	32.91	-0.18	84.82	1.80
Haryana	41.47	0.67		42.14	47.40	48.67	1.27	90.81	3.54
Rajasthan	90.72	4.91	9.81	105.44	59.45	59.93	0.49	165.37	0.49
Delhi	28.88			28.88	27.49	23.36	-4.13	52.24	0.10
UP	113.85	6.15	1.68	121.68	80.68	79.70	-0.98	201.39	34.90
Uttarakhand		8.35		8.35	17.60	18.41	0.81	26.76	2.11
HP		5.92		5.92	15.74	16.54	0.80	22.46	0.24
J & K		7.51	0.00	7.51	26.11	27.64	1.53	35.15	1.70
Chandigarh				0.00	3.25	3.03	-0.23	3.03	0.00
Total	317.30	43.03	11.49	371.82	310.81	310.19	-0.62	682.01	44.88

* 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	4161	600	-155	-338	2986	0	93	-111	0.54
Haryana	4410	408	-62	101	3420	0	-49	235	4.58
Rajasthan	6895	0	-96	339	6885	0	1	726	16.34
Delhi	2649	0	-347	-1302	1487	0	-143	-2012	-38.25
UP	9131	1863	144	-56	8537	840	-137	366	1.49
Uttarakhand	1480	80	52	385	1049	0	37	359	8.57
HP	1102	0	-117	3	772	0	120	195	3.55
J&K	1695	100	-289	433	1476	0	97	439	8.22
Chandigarh	165	0	-11	-25	97	0	10	-31	-0.41
Total	31688	3051	-881	-461	26709	840	29	167	4.62

* 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)]	
								UI Net MU	UI Net MU
A. NTPC									
Singrauli STPS	2000	1945	2050	2044	46.26	1927	46.68	-0.42	
Rihand I STPS	1000	460	499	501	10.94	456	11.04	-0.10	
Rihand II STPS	1000	975	1026	941	22.58	941	22.94	-0.36	
Rihand III STPS	500	0	0	0	0.00	0		0.00	
Dadri I STPS	840	810	841	747	17.33	722	17.79	-0.46	
Dadri II STPS	980	975	1000	978	22.36	932	23.12	-0.76	
Unchahar I TPS	420	402	396	397	8.80	367	9.15	-0.35	
Unchahar II TPS	420	405	373	400	8.60	358	8.74	-0.15	
Unchahar III TPS	210	202	200	199	4.44	185	4.55	-0.11	
ISTPP (Jhajhar)	1500	470	370	411	8.80	367	9.22	-0.42	
Dadri GPS	830	835	450	595	13.10	546	13.33	-0.22	
Anta GPS	419	356	207	257	5.78	241	5.90	-0.12	
Auraiya GPS	663	661	237	285	6.62	276	6.93	-0.31	
Sub Total (A)	10782	8495	7649	7755	175.60	7317	179.38	-3.79	
B. NPC									
NAPS	440	279	313	305	6.69	279	6.70	-0.01	
RAPS- B	440	416	461	462	10.00	417	9.98	0.02	
RAPS- C	440	460	471	476	10.13	422	11.04	-0.91	
Sub Total (B)	1320	1155	1245	1243	26.83	1118	27.72	-0.89	
C. NHPC									
Chamera I HPS	540	546	450	0	2.08	87	2.06	0.02	
Chamera II HPS	300	303	304	0	1.67	69	1.78	-0.12	
Chamera III HPS	231	231	232	0	0.96	40	1.00	-0.04	
Bairasuil HPS	180	182	120	0	0.63	26	0.75	-0.12	
Salai-HPS	690	146	146	230	2.98	124	3.25	-0.26	
Tanakpur-HPS	94	45	57	47	1.04	44	1.08	-0.04	
Uri-HPS	480	109	225	45	2.46	102	2.56	-0.10	
Dhauliganga-HPS	280	288	280	0	1.39	58	1.50	-0.11	
Dulhasi-HPS	390	388	332	0	3.51	146	3.72	-0.21	
Sewa-II HPS	120	120	80	0	0.26	11	0.25	0.01	
Sub Total (C)	3305	2357	2226	322	16.99	708	17.96	-0.97	
D.NJPC									
Nathpa Jhakri	1500	1605	1148	0	8.57	357	8.52	0.05	
Sub Total (D)	1500	1605	1148	0	8.57	357	8.52	0.05	
E. THDC									
Tehri HPS	1000	1050	699	0	4.84	202	5.00	-0.16	
Koteshwar HPS	400	308	242	0	1.35	56	1.35	0.00	
Sub Total (E)	1400	1358	941	0	6.19	258	6.35	-0.16	
F. BBMB									
Bhakra HPS	1480	667	1099	412	16.30	679	16.00	0.30	
Dehar HPS	990	168	495	0	4.53	189	4.03	0.50	
Pong HPS	396	314	366	180	7.36	307	5.01	2.35	
Sub Total (F)	2866	1148	1960	592	28.19	1175	25.03	3.16	
G. IPP(s)/JV(s)									
ADHPL HPS(IPP)	192	0	0	0	0.65	27	0.65	0.00	
KWHEP HPS(IPP)	1000	0	260	0	4.82	201	4.92	-0.10	
Malana Stg-II HPS	100	0	36	18	0.34	14	0.32	0.01	
Shree Cement TPS	300	0	273	275	6.22	259	6.28	-0.06	
Budhil HPS(IPP)	70	0	5	9	0.16	7	0.42	-0.26	
Sub Total (G)	1662	0	574	302	12.19	508	12.59	-0.41	
H. Total Regional Entities (A-G)	22836	16119	15743	10214	274.55	11440	277.56	-3.01	

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	1080	1110	26.08	1087	
	Guru Nanak Dev TPS(Bhatinda)	440	105	95	2.08	87	
	Guru Hargobind Singh TPS(L.mbt)	920	633	537	14.23	593	
	Thermal (Total)	2620	1818	1742	42.38	1766	
	Total Hydro	1148	434	275	9.52	397	
	Total Punjab	3768	2252	2017	51.91	2163	
Haryana	Panipat TPS	1367	775	756	17.46	727	
	DCRTPP (Yamuna nagar)	600	0	0	0.00	0	
	Faridabad GPS (NTPC)	432	119	109	2.76	115	
	RGTPP (khedar) (IPP)	1200	468	438	11.54	481	
	Magnum Diesel (IPP)	25	0	0	0.00	0	
	Jhajjar(CLP)	1320	506	378	9.71	405	
	Thermal (Total)	4944	1868	1681	41.47	1728	
	Total Hydro	62	24	28	0.67	28	
	Total Haryana	5006	1892	1709	42.14	1756	
Rajasthan	kota TPS	1240	1134	1155	26.87	1120	
	suratgarh TPS	1500	1276	1294	29.54	1231	
	Chabra TPS	500	441	391	9.61	400	
	Dholpur GPS	330	153	133	3.41	142	
	Ramgarh GPS	111	73	73	1.93	80	
	RAPS A (NPC)	300	172	172	4.26	178	
	Barsingsar (NLC)	250	108	95	2.44	102	
	Giral LTPS	250	63	63	1.47	61	
	Rajwest LTPS (IPP)	540	486	486	11.20	467	
	VSLP LTPS (IPP)	135	0	0	0.00	0	
	Thermal (Total)	5156	3906	3862	90.72	3780	
	Total Hydro	550	197	222	4.91	205	
	Wind power	2191	234	212	4.38	182	
	Biomass	91	19	19	0.45	19	
	Solar	201	2	0	0.08	3	
	Renewable/Others (Total)	2483	253	231	9.81	409	
		Total Rajasthan	8189	4356	4315	105.44	4393
	UP	Anpara TPS	1630	1579	1345	32.00	1333
		Obra TPS	1382	366	369	7.90	329
Paricha TPS		890	503	493	9.90	413	
Panki TPS		210	150	125	3.00	125	
Harduaganj TPS		665	207	202	4.40	183	
Tanda TPS (NTPC)		440	298	299	7.31	304	
Roza TPS (IPP)		1200	1062	1054	25.32	1055	
Anpara-C (IPP)		1200	725	813	19.26	803	
Bajaj Energy Pvt.Ltd(IPP) TPS		450	202	201	4.76	198	
Thermal (Total)		8067	5092	4901	113.85	4744	
Vishnuparyag HPS (IPP)		400	118	114	2.73	114	
Other Hydro		527	167	133	3.43	143	
Cogeneration		981	70	70	1.68	70	
		Total UP	9975	5447	5218	121.68	4957
Uttarakhand	Total Hydro	1303	431	340	8.35	348	
	Total Uttarakhand	1303	431	340	8.35	348	
Delhi	Raighat TPS	135	103	103	2.45	102	
	Delhi Gas Turbine	282	120	119	2.89	120	
	Pragati Gas Turbine	330	314	311	7.48	312	
	Rithala GPS	108	20	20	0.13	5	
	Bawana GPS	677	221	221	5.85	244	
	Badarpur TPS (NTPC)	705	480	420	10.09	420	
	Thermal (Total)	2237	1258	1194	28.88	1203	
	Total Delhi	2237	1258	1194	28.88	1203	
HP	Baspa HPS (IPP)	330	0	29	1.15	48	
	Malana HPS (IPP)	86	41	14	0.33	14	
	Other Hydro	589	209	140	4.44	185	
		Total HP	1005	250	183	6	247
J & K	Baglihar HPS (IPP)	450	298	148	4.33	180	
	Other Hydro	323	120	175	3.18	133	
	Gas/Diesel/Others	183	0	0	0.00	0	
		Total J & K	956	418	323	7.51	313
Total State Control Area Generation		32439	16304	15299	371.82	15379	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			462	2280	38.92	1622	
Total Regional Availability(Gross)		55275	32509	27793	685.29	28440	

IV. Total Hydro Generation:

Regional Entities Hydro	10364	6571	932	65.74	2739
State Control Area Hydro	5368	1921	1504	43.03	1679
Total Regional Hydro	15731	8492	2436	108.77	4418

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	-500	-400	0	500	0.00	10.28	-10.28
Gwalior-Agra (D/C)	-112	355	490	112	4.97	0.00	4.97
Zerda-Kankroli	-223	-91	0	229	0.00	3.90	-3.90
Zerda-Bhinmal	-171	3	43	299	0.00	1.66	-1.66
Malanpur-Auraiya	-186	-127	0	193	0.00	3.25	-3.25
Badod-Kota/Morak	-194	-63	0	194	0.00	2.31	-2.31
Mundra-Mohindergarh(HVDC)	843	847	849	0	20.51	0.00	20.51
Sub Total WR	-543	524			25.48	21.39	4.10
Pusauli Bypass	250	250	250	0	6.01	0.00	6.01
MZP- GKP (D/C)	282	389	525	0	8.82	0.00	8.82
Patna-Balia(D/C)	335	603	604	0	11.80	0.00	11.80
B'Sharif-Balia (D/C)	141	291	307	0	4.92	0.00	4.92
Barh - Balia(D/C)	0	0	0	0	0.00	0.00	0.00
Pusauli-Balia	-111	-27	0	111	0.00	1.77	-1.77
Gaya-Fatehpur (765 Kv)	13	148	151	0	2.18	0.00	2.18
Pusauli-Sahupuri	135	136	202	0	3.82	0.00	3.82
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	1005	1756			37.54	2.72	34.83
Total IR Exch	462	2280			63.03	24.11	38.92

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
30.83	0.50	31.33	3.84	-15.32	-0.43	5.66	2.35	-2.26
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
37.08	11.48	48.56	34.83	4.10	38.92	-2.25	-7.38	-9.64

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	0.60	79.00	78.40	73.00	21.00
<----- Frequency (Hz) ----->				Average Frequency	Frequency Variation Index	Std. Dev.	Frequency in 15 Min Block	
Maximum		Minimum					MAX (Hz)	MIN (Hz)
50.50	23.59	49.64	11.11	50.09	0.29	0.14	50.47	49.88

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	412	4:05	404	17:36	0.0	0.0	0.0	0.0
Gorakhpur	400	435	6:15	418	12:36	0.0	0.0	87.0	16.8
Bareilly	400	423	16:07	403	11:10	0.0	0.0	2.8	0.0
Kanpur	400	422	4:05	408	11:06	0.0	0.0	4.4	0.0
Dadri	400	425	20:52	411	11:06	0.0	0.0	39.3	0.0
Ballabhgarh	400	431	20:53	415	10:24	0.0	0.0	75.0	0.1
Bawana	400	428	4:04	413	11:07	0.0	0.0	64.8	0.0
Bassi	400	435	20:46	412	8:11	0.0	0.0	53.7	3.4
Hissar	400	422	20:55	404	11:06	0.0	0.0	0.7	0.0
Moga	400	425	4:05	407	17:41	0.0	0.0	10.7	0.0
Abdullapur	400	428	4:05	415	11:06	0.0	0.0	74.3	0.0
Nalagarh	400	429	16:08	417	11:06	0.0	0.0	80.3	0.0
Kishenpur	400	421	3:07	394	18:23	0.0	0.0	0.6	0.0
Wagoora	400	407	3:07	348	18:08	15.8	52.3	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	502.53	1205.87	508.83	1485.27	217.81	440.47
Pong	426.72	384.05	417.64	781.19	418.96	848.35	64.14	495.03
Tehri	829.79	740.04	823.30	1070.00	818.65	982.26	68.01	112.00
Koteswar	612.50	598.50	NA	NA	NA	NA	NA	NA
Chamera-I	760.00	748.75	NA	NA	NA	NA	59.88	59.00
Rihand	268.22	252.98	262.92	500.10	264.78	617.70	NA	NA
RPS	352.80	343.81	350.94	NA	NA	NA	NA	NA
Jawahar Sagar	298.70	295.78	297.64	NA	NA	NA	NA	NA
RSD	527.91	487.91	520.91	NA	519.40	NA	47.88	79.06

* NA: Not Available

IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

XI. Weather Conditions For 18.11.2012 :

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 : 18.11.2012

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER