

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरसिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 12.11.2012
Date of Reporting : 13.11.2012

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
32610	3406	36015	50.08	27257	909	28166	50.35	707.6	48.70

* 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	48.30	9.56		57.86	30.56	30.25	-0.31	88.11	2.03
Haryana	47.03	0.77		47.81	46.55	46.66	0.12	94.47	5.74
Rajasthan	85.16	4.21	5.37	94.74	63.26	63.25	-0.01	157.98	2.78
Delhi	31.50			31.50	29.42	27.22	-2.19	58.73	0.00
UP	119.92	6.51	1.68	128.11	87.24	85.29	-1.94	213.40	33.93
Uttarakhand		9.71		9.71	16.14	19.14	3.00	28.85	2.52
HP		6.91		6.91	14.61	16.08	1.47	22.99	0.00
J & K		9.18	0.00	9.18	26.56	29.23	2.67	38.41	1.70
Chandigarh				0.00	3.22	4.64	1.42	4.64	0.00
Total	331.91	46.86	7.05	385.82	317.55	321.77	4.22	707.59	48.70

* 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	4666	600	95	-373	3026	0	-134	-324	-6.97	
Haryana	4514	906	-25	215	3419	0	-218	225	4.39	
Rajasthan	6250	0	-114	225	6688	169	-5	1170	22.70	
Delhi	3064	0	-74	-1330	1639	0	-36	-2258	-39.42	
UP	9549	1720	-152	1395	9185	680	-95	645	11.30	
Uttarakhand	1558	80	219	316	1045	60	11	310	7.52	
HP	1096	0	-26	12	730	0	26	223	2.53	
J&K	1736	100	-99	458	1437	0	64	454	9.59	
Chandigarh	177	0	-26	-12	88	0	-1	-31	-0.32	
Total	32610	3406	-202	905	27257	909	-387	414	11.31	

* 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	1940	2083	2050	46.45	1936	46.56	-0.11
Rihand I STPS	1000	460	508	494	11.05	461	11.04	0.01
Rihand II STPS	1000	600	511	1000	15.61	651	14.39	1.22
Rihand III STPS	500	0	0	0	0.00	0		0.00
Dadri I STPS	840	810	874	850	19.18	799	19.44	-0.26
Dadri II STPS	980	975	1019	1002	23.12	963	23.39	-0.27
Unchahar I TPS	420	402	428	385	9.32	388	9.54	-0.22
Unchahar II TPS	420	405	442	364	9.35	389	9.55	-0.20
Unchahar III TPS	210	202	215	196	4.75	198	4.80	-0.06
ISTPP (Jhajjar)	1500	463	421	444	10.07	420	10.78	-0.71
Dadri GPS	830	834	710	495	14.68	612	14.94	-0.26
Anta GPS	419	409	264	246	6.29	262	6.72	-0.43
Auraiya GPS	663	657	311	304	7.47	311	9.16	-1.69
Sub Total (A)	10782	8157	7786	7830	177.35	7390	180.31	-2.96
B. NPC								
NAPS	440	277	302	319	6.62	276	6.65	-0.03
RAPS- B	440	417	458	464	10.01	417	10.01	0.00
RAPS- C	440	440	468	473	10.13	422	10.56	-0.43
Sub Total (B)	1320	1134	1228	1256	26.76	1115	27.22	-0.46
C. NHPC								
Chamera I HPS	540	550	360	0	2.21	92	2.20	0.01
Chamera II HPS	300	303	240	0	1.84	77	1.89	-0.05
Chamera III HPS	231	231	59	0	1.14	47	1.11	0.03
Bairasuil HPS	180	182	120	0	0.76	32	0.79	-0.04
Salai-HPS	690	115	223	33	2.88	112	2.76	-0.07
Tanakpur-HPS	94	47	64	58	1.16	48	1.13	0.03
Uri-HPS	480	119	205	25	2.77	116	2.49	0.28
Dhauliganga-HPS	280	288	141	0	1.52	63	1.50	0.02
Dulhasi-HPS	390	388	331	0	3.80	158	3.85	-0.05
Sewa-II HPS	120	120	71	0	0.25	10	0.27	-0.03
Sub Total (C)	3305	2343	1814	116	18.13	755	17.99	0.14
D.NJPC								
Nathpa Jhakri	1500	1605	966	0	9.75	406	9.50	0.25
Sub Total (D)	1500	1605	966	0	9.75	406	9.50	0.25
E. THDC								
Tehri HPS	1000	788	1055	0	5.76	240	5.50	0.26
Koteswar HPS	400	310	307	0	1.51	63	1.50	0.01
Sub Total (E)	1400	1098	1362	0	7.27	303	7.00	0.27
F. BBMB								
Bhakra HPS	1480	648	1150	409	16.01	667	15.56	0.45
Dehar HPS	990	176	495	166	4.48	187	4.24	0.24
Pong HPS	396	305	366	246	7.51	313	5.01	2.50
Sub Total (F)	2866	1130	2011	821	28.00	1167	24.80	3.19
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	5.19	216	5.17	0.03
Malana Stg-II HPS	100	0	13	13	0.32	13	0.28	0.04
Shree Cement TPS	300	0	262	205	6.15	256	6.24	-0.09
Budhil HPS(IPP)	70	0	9	9	0.22	9	0.42	-0.20
Sub Total (G)	1662	0	644	227	12.55	523	12.76	-0.20
H. Total Regional Entities (A-G)	22836	15467	15811	10250	279.81	11659	279.57	0.24

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	1267	1261	27.64	1152	
	Guru Nanak Dev TPS(Bhatinda)	440	120	170	3.83	160	
	Guru Hargobind Singh TPS(L.mbt)	920	743	741	16.83	701	
	Thermal (Total)	2620	2130	2172	48.30	2012	
	Total Hydro	1148	585	312	9.56	399	
	Total Punjab	3768	2715	2484	57.86	2411	
Haryana	Panipat TPS	1367	642	656	15.53	647	
	DCRTPP (Yamuna nagar)	600	0	0	0.00	0	
	Faridabad GPS (NTPC)	432	411	282	9.20	383	
	RGTPP (kheldar) (IPP)	1200	503	510	11.90	496	
	Magnum Diesel (IPP)	25	0	0	0.00	0	
	Jhajjar(CLP)	1320	624	376	10.41	434	
	Thermal (Total)	4944	2180	1824	47.03	1960	
	Total Hydro	62	26	31	0.77	32	
	Total Haryana	5006	2206	1855	47.81	1992	
Rajasthan	kota TPS	1240	1150	1169	27.42	1143	
	suratgarh TPS	1500	1087	1136	27.18	1132	
	Chabra TPS	500	454	382	10.08	420	
	Dholpur GPS	330	146	209	3.43	143	
	Ramgarh GPS	111	73	73	1.90	79	
	RAPS A (NPC)	300	172	172	4.24	177	
	Barsingar (NLC)	250	105	107	2.29	96	
	Giral LTPS	250	0	0	0.06	3	
	Rajwest LTPS (IPP)	540	365	243	8.55	356	
	VSLP LTPS (IPP)	135	0	0	0.00	0	
	Thermal (Total)	5156	3552	3491	85.16	3548	
	Total Hydro	550	300	188	4.21	176	
	Wind power	2191	8	95	0.61	25	
	Biomass	91	18	18	0.44	18	
	Solar	201	3	0	0.11	4	
	Renewable/Others (Total)	2483	26	113	5.37	224	
	Total Rajasthan	8189	3878	3792	94.74	3947	
	UP	Anpara TPS	1630	1611	1615	34.50	1438
		Obra TPS	1382	556	556	12.10	504
		Paricha TPS	890	348	646	7.80	325
Panki TPS		210	145	165	3.20	133	
Harduaganj TPS		665	217	204	4.30	179	
Tanda TPS (NTPC)		440	299	399	8.07	336	
Roza TPS (IPP)		1200	1050	1076	25.79	1075	
Anpara-C (IPP)		1200	851	723	19.50	813	
Bajaj Energy Pvt.Ltd(IPP) TPS		450	203	203	4.65	194	
Thermal (Total)		8067	5280	5587	119.92	4997	
Vishnuparyag HPS (IPP)		400	128	119	2.86	119	
Other Hydro		527	150	144	3.65	152	
Cogeneration		981	70	70	1.68	70	
Total UP		9975	5628	5920	128.11	5219	
Uttarakhand		Total Hydro	1303	535	301	9.71	405
		Total Uttarakhand	1303	535	301	9.71	405
Delhi	Raighat TPS	135	92	105	2.15	90	
	Delhi Gas Turbine	282	157	113	3.32	138	
	Pragati Gas Turbine	330	306	261	7.32	305	
	Rithala GPS	108	0	0	0.00	0	
	Bawana GPS	677	266	265	6.25	260	
	Badarpur TPS (NTPC)	705	600	495	12.47	520	
	Thermal (Total)	2237	1421	1239	31.50	1313	
	Total Delhi	2237	1421	1239	31.50	1313	
HP	Baspa HPS (IPP)	330	59	30	1.56	65	
	Malana HPS (IPP)	86	35	14	0.39	16	
	Other Hydro	589	227	149	4.96	207	
	Total HP	1005	321	193	7	288	
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	16972	16103	385.82	15957	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			889	2317	50.55	2106	
Total Regional Availability(Gross)		55275	33672	28670	716.17	29721	

IV. Total Hydro Generation:

Regional Entities Hydro	10364	6526	950	69.32	2889
State Control Area Hydro	5368	2185	1488	46.86	1833
Total Regional Hydro	15731	8711	2438	116.19	4722

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	50	200	0.15	3.16	-3.01
Gwalior-Agra (D/C)	-89	107	631	89	4.42	0.00	4.42
Zerda-Kankroli	-204	-76	60	217	0.00	2.35	-2.35
Zerda-Bhinmal	-127	30	165	196	0.15	0.00	0.15
Malanpur-Auraiya	-233	-171	0	233	0.00	3.79	-3.79
Badod-Kota/Morak	-186	-100	3	235	0.00	3.07	-3.07
Mundra-Mohindergarh(HVDC)	743	742	744	0	17.91	0.00	17.91
Sub Total WR	-296	432			22.63	12.38	10.25
Pusauli Bypass	50	250	250	0	2.79	0.00	2.79
MZP- GKP (D/C)	350	546	720	0	10.84	0.00	10.84
Patna-Balia(D/C)	204	268	543	0	5.64	0.00	5.64
B'Sharif-Balia (D/C)	150	271	419	0	6.87	0.00	6.87
Barh - Balia(D/C)	248	318	485	0	7.78	0.00	7.78
Pusauli-Balia	-54	-45	50	90	0.00	0.39	-0.39
Gaya-Fatehpur (765 Kv)	127	183	268	0	4.44	0.00	4.44
Pusauli-Sahupuri	150	128	163	0	3.29	0.00	3.29
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	1185	1885			41.65	1.34	40.30
Total IR Exch	889	2317			64.27	13.72	50.55

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
33.47	0.78	34.25	9.18	-18.01	-0.70	10.37	2.85	-2.77
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
45.58	8.09	53.67	40.30	10.25	50.55	-5.27	2.16	-3.12

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	6.25	96.32	90.07	63.99	3.68

<----- 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				
50.44	16.33	49.60	10.04	50.05	0.24	0.12	50.39	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	416	8:02	408	11:14	0.0	0.0	0.0	0.0
Gorakhpur	400	432	8:15	413	22:31	0.0	0.0	61.5	3.2
Bareilly	400	420	8:04	400	11:19	0.0	0.0	0.0	0.0
Kanpur	400	423	17:07	404	11:18	0.0	0.0	3.4	0.0
Dadri	400	426	3:06	409	11:16	0.0	0.0	27.9	0.0
Ballabhgarh	400	430	3:05	410	11:19	0.0	0.0	65.7	0.0
Bawana	400	429	2:59	410	11:18	0.0	0.0	42.5	0.0
Bassi	400	431	13:03	407	7:10	0.0	0.0	45.1	0.2
Hissar	400	419	3:02	400	11:17	0.0	0.0	0.0	0.0
Moga	400	426	3:39	405	11:19	0.0	0.0	23.0	0.0
Abdullapur	400	427	2:56	410	11:18	0.0	0.0	47.5	0.0
Nalagarh	400	428	23:53	413	11:06	0.0	0.0	61.3	0.0
Kishenpur	400	426	23:51	397	18:40	0.0	0.0	8.9	0.0
Wagoora	400	421	13:42	377	18:15	6.3	32.8	0.1	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
Koteshwar	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 12.11.2012 :

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 : 12.11.2012

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER