

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरसिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 09.12.2012

Date of Reporting : 10.12.2012

I. Regional Availability/Demand:

Demand Met	Evening Peak (19:00 Hrs) MW			Demand Met	Off Peak (03:00 Hrs) MW			Day Energy (Net MU)	
	Shortage	Requirement	Freq* (Hz)		Shortage	Requirement	Freq* (Hz)	Demand Met	Shortage
30916	2733	33649	50.13	26693	668	27361	50.17	690.3	46.42

* 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	46.67	11.74		58.41	35.94	36.65	0.71	95.06	6.00
Haryana	59.94	0.60		60.54	34.34	35.07	0.73	95.61	1.97
Rajasthan	92.23	4.41	1.04	97.68	68.37	65.91	-2.47	163.59	0.00
Delhi	25.93			25.93	31.49	27.53	-3.96	53.46	0.02
UP	109.46	5.80	12.00	127.26	68.54	64.71	-3.82	191.98	36.07
Uttarakhand		9.31		9.31	19.05	18.90	-0.16	28.21	0.24
HP		4.97		4.97	17.89	17.40	-0.49	22.37	0.41
J & K		7.30	0.00	7.30	27.89	29.68	1.79	36.98	1.70
Chandigarh				0.00	3.17	3.06	-0.11	3.06	0.00
Total	334.23	44.14	13.04	391.41	306.69	298.91	-7.78	690.32	46.42

* 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	4272	800	-83	-175	3545	0	160	-42	-6.43	
Haryana	4467	149	-88	21	3702	0	31	-28	-1.20	
Rajasthan	6849	0	-189	422	6888	0	-38	654	27.77	
Delhi	2754	5	-261	-1150	1317	0	-223	-2290	-37.50	
UP	8175	1660	-325	-141	7825	665	-223	130	-3.96	
Uttarakhand	1446	0	79	437	1034	0	-29	417	9.85	
HP	1137	19	-58	198	768	3	43	335	6.63	
J&K	1654	100	-121	398	1524	0	76	501	9.79	
Chandigarh	162	0	-11	0	91	0	5	-30	-0.50	
Total	30916	2733	-1057	10	26693	668	-198	-353	4.44	

* 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	1947	2081	2070	46.83	1951	46.72	0.11
Rihand I STPS	1000	463	517	506	11.19	466	11.10	0.09
Rihand II STPS	1000	975	1038	1041	23.48	978	23.40	0.08
Rihand III STPS	500	310	336	349	7.62	317	7.43	0.19
Dadri I STPS	840	810	875	634	17.55	731	17.68	-0.12
Dadri II STPS	980	975	1036	745	21.53	897	23.22	-1.69
Unchahar I TPS	420	407	436	435	9.64	402	9.72	-0.09
Unchahar II TPS	420	405	427	436	9.57	399	9.62	-0.05
Unchahar III TPS	210	202	220	216	4.78	199	4.79	-0.01
ISTPP (Jhajjar)	1500	764	349	0	14.30	596	14.72	-0.41
Dadri GPS	830	841	408	310	9.15	381	9.83	-0.67
Anta GPS	419	379	232	164	5.46	228	5.41	0.05
Auraiya GPS	663	663	295	273	6.93	289	6.99	-0.06
Sub Total (A)	10782	9141	8250	7179	188.04	7835	190.63	-2.59
B. NPC								
NAPS	440	284	321	324	6.79	283	6.82	-0.02
RAPS- B	440	211	232	233	5.01	209	5.06	-0.06
RAPS- C	440	435	412	473	10.15	423	10.44	-0.29
Sub Total (B)	1320	930	965	1030	21.95	915	22.32	-0.37
C. NHPC								
Chamera I HPS	540	425	180	0	1.82	76	1.80	0.02
Chamera II HPS	300	303	239	0	1.45	60	1.44	0.00
Chamera III HPS	231	231	145	0	0.85	35	0.80	0.05
Bairasuil HPS	180	120	100	0	0.57	24	0.52	0.05
Salai-HPS	690	123	225	101	2.95	123	3.02	-0.07
Tanakpur-HPS	94	32	44	30	0.78	32	0.74	0.04
Uri-HPS	480	105	210	40	2.48	103	2.57	-0.10
Dhauliganga-HPS	280	216	13	0	1.18	49	1.19	-0.01
Dulhasti-HPS	390	388	400	0	3.09	129	3.07	0.02
Sewa-II HPS	120	119	102	0	0.21	9	0.22	0.00
Sub Total (C)	3305	2063	1658	171	15.36	640	15.36	0.00
D.NJPC								
Nathpa Jhakri	1500	1605	1128	0	7.59	316	7.47	0.12
Sub Total (D)	1500	1605	1128	0	7.59	316	7.47	0.12
E. THDC								
Tehri HPS	1000	459	0	0	4.15	173	4.00	0.15
Koteshwar HPS	400	100	100	101	2.41	101	2.40	0.01
Sub Total (E)	1400	559	100	101	6.56	273	6.40	0.16
F. BBMB								
Bhakra HPS	1480	722	1148	412	17.61	734	17.33	0.28
Dehar HPS	990	136	495	0	3.52	147	3.26	0.27
Pong HPS	396	267	366	186	6.68	278	5.01	1.67
Sub Total (F)	2866	1125	2009	598	27.81	1159	25.59	2.22
G. IPP(s)/JV(s)								
ADHPL HPS(IPP)	192	0	0	0	0.52	22	0.52	0.00
KWHEP HPS(IPP)	1000	0	140	0	4.06	169	4.02	0.03
Malana Stg-II HPS	100	0	26	0	0.23	10	0.19	0.05
Shree Cement TPS	300	0	271	195	6.10	254	5.81	0.29
Budhil HPS(IPP)	70	0	0	0	0.00	0	0.15	-0.15
Sub Total (G)	1662	0	437	195	10.91	454	10.69	0.22
H. Total Regional Entities (A-G)	22836	15422	14547	9274	278.22	11592	278.46	-0.25

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	970	960	25.21	1050	
	Guru Nanak Dev TPS(Bhatinda)	440	295	285	6.80	283	
	Guru Hargobind Singh TPS(L.mbt)	920	539	545	14.66	611	
	Thermal (Total)	2620	1804	1790	46.67	1944	
	Total Hydro	1148	455	453	11.74	489	
	Total Punjab	3768	2259	2243	58.41	2434	
Haryana	Panipat TPS	1367	943	942	22.58	941	
	DCRTPP (Yamuna nagar)	600	286	289	6.69	279	
	Faridabad GPS (NTPC)	432	162	147	3.87	161	
	RGTPP (kheadar) (IPP)	1200	542	574	11.82	493	
	Magnum Diesel (IPP)	25	0	0	0.00	0	
	Jhajjar(CLP)	1320	612	613	14.98	624	
	Thermal (Total)	4944	2545	2565	59.94	2497	
	Total Hydro	62	26	24	0.60	25	
	Total Haryana	5006	2571	2589	60.54	2523	
Rajasthan	kota TPS	1240	1184	1181	27.82	1159	
	suratgarh TPS	1500	375	1341	31.04	1293	
	Chabra TPS	500	139	453	9.55	398	
	Dholpur GPS	330	79	141	3.42	142	
	Ramgarh GPS	111	179	80	2.06	86	
	RAPS A (NPC)	300	216	179	4.42	184	
	Barsingsar (NLC)	250	48	212	4.99	208	
	Giral LTPS	250	350	51	1.03	43	
	Rajwest LTPS (IPP)	540	351	351	7.91	330	
	VSLP LTPS (IPP)	135	0	0	0.00	0	
	Thermal (Total)	5156	2921	3989	92.23	3843	
	Total Hydro	550	204	221	4.41	184	
	Wind power	2191	13	3	0.45	19	
	Biomass	91	22	22	0.52	22	
	Solar	201	2	0	0.07	3	
	Renewable/Others (Total)	2483	35	25	1.04	43	
	Total Rajasthan	8189	3160	4235	97.68	4070	
	UP	Anpara TPS	1630	1605	1559	34.10	1421
		Obra TPS	1382	499	480	10.50	438
		Paricha TPS	890	199	256	4.70	196
Panki TPS		210	125	110	2.70	113	
Harduaganj TPS		665	44	0	0.60	25	
Tanda TPS (NTPC)		440	399	396	9.72	405	
Roza TPS (IPP)		1200	1080	875	23.56	982	
Anpara-C (IPP)		1200	624	628	14.95	623	
Bajaj Energy Pvt.Ltd(IPP) TPS		450	359	361	8.63	360	
Thermal (Total)		8067	4934	4665	109.46	4561	
Vishnuparyag HPS (IPP)		400	93	93	2.21	92	
Other Hydro		527	164	143	3.59	150	
Cogeneration		981	500	500	12.00	500	
Total UP		9975	5691	5401	127.26	5210	
Uttarakhand	Total Hydro	1303	485	312	9.31	388	
	Total Uttarakhand	1303	485	312	9.31	388	
Delhi	Raighat TPS	135	51	50	1.34	56	
	Delhi Gas Turbine	282	78	78	1.97	82	
	Pragati Gas Turbine	330	311	322	7.78	324	
	Rithala GPS	108	0	0	0.00	0	
	Bawana GPS	677	209	224	5.20	217	
	Badarpur TPS (NTPC)	705	426	415	9.64	402	
	Thermal (Total)	2237	1075	1089	25.93	1080	
	Total Delhi	2237	1075	1089	25.93	1080	
HP	Baspa HPS (IPP)	330	0	0	1.28	53	
	Malana HPS (IPP)	86	38	0	0.25	11	
	Other Hydro	589	177	107	3.44	143	
	Total HP	1005	215	107	5	207	
J & K	Baglihar HPS (IPP)	450	294	146	4.12	172	
	Other Hydro	323	120	175	3.18	133	
	Gas/Diesel/Others	183	0	0	0.00	0	
	Total J & K	956	414	321	7.30	304	
Total State Control Area Generation		32439	15870	16297	391.41	16217	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			1534	1520	34.98	1458	
Total Regional Availability(Gross)		55275	31951	27091	704.61	29267	

IV. Total Hydro Generation:

Regional Entities Hydro	10364	5061	870	62.12	2588
State Control Area Hydro	5368	1963	1581	44.14	1747
Total Regional Hydro	15731	7024	2451	106.26	4336

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	-100	0	400	0.00	7.32	-7.32
Gwalior-Agra (D/C)	248	105	427	130	3.44	0.00	3.44
Zerda-Kankroli	-12	-31	35	152	0.00	1.25	-1.25
Zerda-Bhinmal	89	87	148	72	1.36	0.00	1.36
Malanpur-Auraiya	-159	-144	0	211	0.00	3.69	-3.69
Badod-Kota/Morak	-114	-134	0	134	0.00	2.81	-2.81
Mundra-Mohindergarh(HVDC)	363	342	414	0	9.31	0.00	9.31
Sub Total WR	15	125			14.11	15.07	-0.96
Pusauli Bypass	-192	-181	0	207	0.00	3.24	-3.24
MZP- GKP (D/C)	496	436	584	0	11.49	0.00	11.49
Patna-Balia(D/C)	576	586	638	0	13.50	0.00	13.50
B'Sharif-Balia (D/C)	277	221	323	0	5.96	0.00	5.96
Barh - Balia(D/C)	0	0	0	0	0.00	0.00	0.00
Pusauli-Balia	9	27	77	0	0.41	0.00	0.41
Gaya-Fatehpur (765 Kv)	255	210	304	0	5.60	0.00	5.60
Pusauli-Sahupuri	135	128	148	0	3.08	0.00	3.08
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-37	-32	0	48	0.00	0.85	-0.85
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sub Total ER	1519	1395			40.03	4.09	35.94
Total IR Exch	1534	1520			54.15	19.16	34.98

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
38.16	0.53	38.70	10.15	-22.03	0.00	7.98	-3.60	3.71
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
45.24	-1.31	43.94	35.94	-0.96	34.98	-9.30	0.35	-8.96

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	0.60	3.90	94.20	90.90	43.80	5.20
Frequency (Hz)				Average Frequency	Frequency Variation Index	Std. Dev.	Frequency in 15 Min Block	
Maximum		Minimum		Hz			MAX (Hz)	MIN (Hz)
50.46	6.02	49.39	7.25	49.98	0.24	0.15	50.37	49.60

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	406	3:07	415	10:16	10.1	10.1	0.0	0.0
Gorakhpur	400	432	6:16	416	10:50	0.0	0.0	68.0	4.4
Bareilly	400	421	4:04	402	11:36	0.0	0.0	0.7	0.0
Kanpur	400	420	4:03	399	11:29	0.0	0.0	0.0	0.0
Dadri	400	421	4:03	403	10:09	0.0	0.0	0.5	0.0
Ballabhgarh	400	427	4:00	405	10:09	0.0	0.0	25.4	0.0
Bawana	400	425	4:01	405	11:35	0.0	0.0	17.7	0.0
Bassi	400	434	4:03	399	12:17	0.0	0.0	28.3	2.9
Hissar	400	402	19:21	394	0:00	0.0	0.0	0.0	0.0
Moga	400	412	3:07	388	10:07	0.0	0.8	0.0	0.0
Abdullapur	400	426	4:02	407	11:34	0.0	0.0	34.0	0.0
Nalagarh	400	422	6:02	403	11:27	0.0	0.0	1.5	0.0
Kishenpur	400	408	0:02	385	10:06	0.0	3.2	0.0	0.0
Wagoora	400	399	0:03	362	10:07	54.1	87.0	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	498.51	1041.47	505.71	1339.30	203.00	504.24
Pong	426.72	384.05	413.98	633.63	416.24	730.66	75.69	409.21
Tehri	829.79	740.04	818.90	982.26	818.65	982.26	62.54	92.00
Koteshwar	612.50	598.50	609.30	4.21	NA	NA	92.00	160.00
Chamera-I	760.00	748.75	NA	NA	NA	NA	47.41	49.17
Rihand	268.22	252.98	262.49	500.10	264.17	617.70	NA	NA
RPS	352.80	343.81	349.28	NA	NA	NA	NA	NA
Jawahar Sagar	298.70	295.78	297.18	NA	NA	NA	NA	NA
RSD	527.91	487.91	519.39	NA	515.89	NA	45.79	162.11

* NA: Not Available

IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

XI. Weather Conditions For 09.12.2012 :
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 : 09.12.2012

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER