

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरसिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 10.12.2012

Date of Reporting : 11.12.2012

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
32167	3244	35411	50.04	26121	634	26755	50.23	700.8	55.90

* 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	47.79	11.58		59.38	36.27	36.41	0.14	95.79	5.40
Haryana	59.62	0.62		60.24	34.87	35.20	0.33	95.44	4.52
Rajasthan	89.39	5.21	2.85	97.45	69.76	68.13	-1.62	165.58	0.00
Delhi	26.29			26.29	34.28	30.44	-3.84	56.73	0.01
UP	105.49	6.12	12.00	123.61	71.22	68.87	-2.36	192.47	44.16
Uttarakhand		9.97		9.97	19.53	19.70	0.16	29.67	0.04
HP		5.36		5.36	17.71	17.92	0.21	23.28	0.08
J & K		7.30	0.00	7.30	28.83	31.12	2.29	38.41	1.70
Chandigarh				0.00	3.57	3.46	-0.11	3.46	0.00
Total	328.57	46.17	14.85	389.58	316.05	311.25	-4.80	700.83	55.90

* 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	4620	800	-100	-213	3441	0	-4	-54	-6.36	
Haryana	4375	639	-85	-43	3511	0	63	-51	-2.79	
Rajasthan	7207	0	-345	399	6737	0	45	547	27.66	
Delhi	2927	5	-317	-1070	1287	0	-144	-1834	-34.69	
UP	8436	1696	-199	-127	7902	630	-122	-101	-6.26	
Uttarakhand	1496	0	-52	435	948	0	-126	417	9.70	
HP	1190	4	16	249	675	4	-37	335	6.12	
J&K	1732	100	-107	398	1529	0	64	501	10.19	
Chandigarh	184	0	-40	0	91	0	1	-31	-0.28	
Total	32167	3244	-1228	29	26121	634	-260	-271	3.29	

* 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	2069	2062	47.11	1963	46.72	0.39
Rihand I STPS	1000	874	1011	736	21.08	878	20.97	0.11
Rihand II STPS	1000	975	1039	1023	23.26	969	23.25	0.00
Rihand III STPS	500	211	336	349	4.92	205	5.07	-0.15
Dadri I STPS	840	810	880	669	18.05	752	18.16	-0.11
Dadri II STPS	980	975	1019	795	22.50	937	22.91	-0.41
Unchahar I TPS	420	407	437	370	9.54	397	9.64	-0.10
Unchahar II TPS	420	405	431	326	9.39	391	9.44	-0.05
Unchahar III TPS	210	202	217	174	4.69	196	4.73	-0.03
ISTPP (Jhajhar)	1500	849	345	317	15.49	646	15.97	-0.48
Dadri GPS	830	841	410	299	9.12	380	10.03	-0.91
Anta GPS	419	381	258	178	5.66	236	5.48	0.19
Auraiya GPS	663	662	317	244	7.00	291	7.28	-0.29
Sub Total (A)	10782	9539	8769	7542	197.80	8242	199.63	-1.84
B. NPC								
NAPS	440	284	320	321	6.80	283	6.82	-0.02
RAPS- B	440	211	233	233	4.99	208	5.06	-0.07
RAPS- C	440	435	476	473	10.17	424	10.44	-0.27
Sub Total (B)	1320	930	1029	1027	21.95	915	22.32	-0.37
C. NHPC								
Chamera I HPS	540	550	180	0	1.94	81	1.82	0.12
Chamera II HPS	300	303	224	0	1.45	60	1.37	0.08
Chamera III HPS	231	191	145	0	0.83	35	0.82	0.02
Bairasuil HPS	180	120	20	0	0.51	21	0.50	0.01
Salai-HPS	690	131	227	35	2.64	110	2.77	-0.13
Tanakpur-HPS	94	31	42	32	0.81	34	0.75	0.06
Uri-HPS	480	105	201	41	2.49	104	2.41	0.08
Dhauliganga-HPS	280	216	141	0	1.20	50	1.21	-0.02
Dulhasti-HPS	390	388	400	0	3.00	125	2.99	0.01
Sewa-II HPS	120	119	101	0	0.24	10	0.21	0.03
Sub Total (C)	3305	2154	1681	108	15.11	630	14.85	0.26
D.NJPC								
Nathpa Jhakri	1500	1605	1272	0	7.51	313	7.48	0.03
Sub Total (D)	1500	1605	1272	0	7.51	313	7.48	0.03
E. THDC								
Tehri HPS	1000	485	1058	0	5.59	233	5.46	0.12
Koteshwar HPS	400	100	100	100	2.41	100	2.40	0.01
Sub Total (E)	1400	585	1158	100	8.00	333	7.86	0.13
F. BBMB								
Bhakra HPS	1480	707	1152	415	17.32	722	16.97	0.35
Dehar HPS	990	139	495	0	3.68	153	3.33	0.36
Pong HPS	396	261	306	126	6.51	271	5.01	1.50
Sub Total (F)	2866	1107	1953	541	27.51	1146	25.30	2.21
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	4.05	169	4.05	0.00
Malana Stg-II HPS	100	0	26	0	0.23	10	0.18	0.05
Shree Cement TPS	300	0	275	196	6.12	255	5.91	0.22
Budhil HPS(IPP)	70	0	0	0	0.00	0	0.15	-0.15
Sub Total (G)	1662	0	441	196	10.93	455	10.81	0.11
H. Total Regional Entities (A-G)	22836	15920	16303	9514	288.80	12033	288.26	0.55

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	1264	1020	26.39	1099
	Guru Nanak Dev TPS(Bhatinda)	440	320	295	6.07	253
	Guru Hargobind Singh TPS(L.mbt)	920	738	569	15.34	639
	Thermal (Total)	2620	2322	1884	47.79	1991
	Total Hydro	1148	456	331	11.58	483
	Total Punjab	3768	2778	2215	59.38	2474
Haryana	Panipat TPS	1367	936	888	22.42	934
	DCRTPP (Yamuna nagar)	600	283	251	6.59	274
	Faridabad GPS (NTPC)	432	166	147	3.96	165
	RGTPP (kheadar) (IPP)	1200	505	426	11.72	488
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	1320	621	615	14.93	622
	Thermal (Total)	4944	2511	2327	59.62	2484
	Total Hydro	62	25	24	0.62	26
	Total Haryana	5006	2536	2351	60.24	2510
Rajasthan	kota TPS	1240	1182	1092	27.27	1136
	suratgarh TPS	1500	1140	1135	29.76	1240
	Chabra TPS	500	407	375	9.53	397
	Dholpur GPS	330	153	139	2.97	124
	Ramgarh GPS	111	69	80	1.78	74
	RAPS A (NPC)	300	179	179	4.33	180
	Barsingar (NLC)	250	211	211	4.64	194
	Giral LTPS	250	66	48	1.30	54
	Rajwest LTPS (IPP)	540	297	351	7.80	325
	VSLP LTPS (IPP)	135	0	0	0.00	0
	Thermal (Total)	5156	3704	3610	89.39	3724
	Total Hydro	550	242	146	5.21	217
	Wind power	2191	181	90	2.24	93
	Biomass	91	23	23	0.54	23
	Solar	201	2	0	0.07	3
	Renewable/Others (Total)	2483	204	113	2.85	119
		Total Rajasthan	8189	4150	3869	97.45
UP	Anpara TPS	1630	1575	1559	33.60	1400
	Obra TPS	1382	482	505	10.60	442
	Paricha TPS	890	0	0	0.00	0
	Panki TPS	210	70	115	1.90	79
	Harduaganj TPS	665	42	42	1.00	42
	Tanda TPS (NTPC)	440	393	398	9.71	404
	Roza TPS (IPP)	1200	1103	1049	25.86	1078
	Anpara-C (IPP)	1200	600	605	14.36	599
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	361	362	8.46	352
	Thermal (Total)	8067	4626	4635	105.49	4395
	Vishnuparyag HPS (IPP)	400	99	94	2.26	94
	Other Hydro	527	149	192	3.86	161
	Cogeneration	981	500	500	12.00	500
		Total UP	9975	5374	5421	123.61
Uttarakhand	Total Hydro	1303	515	305	9.97	416
	Total Uttarakhand	1303	515	305	9.97	416
Delhi	Raighat TPS	135	106	100	2.81	117
	Delhi Gas Turbine	282	75	77	1.96	82
	Pragati Gas Turbine	330	313	322	7.77	324
	Rithala GPS	108	20	0	0.24	10
	Bawana GPS	677	208	212	5.29	221
	Badarpur TPS (NTPC)	705	380	405	8.22	343
	Thermal (Total)	2237	1102	1116	26.29	1095
	Total Delhi	2237	1102	1116	26.29	1095
HP	Baspa HPS (IPP)	330	0	0	1.28	53
	Malana HPS (IPP)	86	37	0	0.24	10
	Other Hydro	589	224	149	3.84	160
		Total HP	1005	261	149	5
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
Total State Control Area Generation		32439	17130	15747	389.58	16139
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			931	1237	37.50	1562
Total Regional Availability(Gross)		55275	34364	26498	715.88	29734

IV. Total Hydro Generation:

Regional Entities Hydro	10364	6230	749	62.93	2622
State Control Area Hydro	5368	2062	1468	46.17	1830
Total Regional Hydro	15731	8292	2217	109.10	4452

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	Import	Export	
Vindhychal B/B	-400	-400	0	400	0.00	8.35	-8.35		
Gwalior-Agra (D/C)	83	157	480	122	4.81	0.00	4.81		
Zerda-Kankroli	-95	-62	57	172	0.00	0.97	-0.97		
Zerda-Bhinmal	10	52	197	135	1.44	0.00	1.44		
Malanpur-Auraiya	-189	-154	0	189	0.00	3.37	-3.37		
Badod-Kota/Morak	-142	-149	0	137	0.00	2.66	-2.66		
Mundra-Mohindergarh(HVDC)	471	468	471	0	11.05	0.00	11.05		
Sub Total WR	-262	-88			17.30	15.35	1.95		
Pusauli Bypass	-287	-254	0	328	0.00	5.02	-5.02		
MZP- GKP (D/C)	360	448	568	0	10.42	0.00	10.42		
Patna-Balia(D/C)	508	538	836	0	15.21	0.00	15.21		
B'Sharif-Balia (D/C)	273	245	379	0	7.02	0.00	7.02		
Barh - Balia(D/C)	0	0	0	0	0.00	0.00	0.00		
Pusauli-Balia	63	55	114	0	0.92	0.00	0.92		
Gaya-Fatehpur (765 Kv)	168	197	240	0	4.59	0.00	4.59		
Pusauli-Sahupuri	145	128	160	0	3.26	0.00	3.26		
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	1193	1325			41.42	5.87	35.55		
Total IR Exch	931	1237			58.71	21.22	37.50		

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
37.94	0.53	38.48	8.88	-21.37	-0.01	7.56	-2.41	2.54
Total IR Schedule (MU)			Total IR Actual (MU)			Net IR UI (MU)		
Through ER	Through WR	Total	Through ER	Through WR	Total	Through ER	Through WR	Total
44.94	0.53	45.47	35.55	1.95	37.50	-9.39	1.42	-7.97

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	7.50	92.00	85.10	42.40	7.40
<----- Frequency (Hz) ----->				Average Frequency	Frequency Variation Index	Std. Dev.	Frequency in 15 Min Block	
Maximum		Minimum					MAX (Hz)	MIN (Hz)
50.39	16.06	49.43	12.23	49.95	0.33	0.17	50.36	0.00

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	407	4:07	412	10:38	1.0	1.0	0.0	0.0
Gorakhpur	400	428	5:18	414	10:52	0.0	0.0	46.8	0.0
Bareilly	400	422	4:07	400	11:10	0.0	0.0	3.1	0.0
Kanpur	400	418	4:03	397	11:09	0.0	0.0	0.0	0.0
Dadri	400	422	4:04	400	11:09	0.0	0.0	3.4	0.0
Ballabgarh	400	427	3:11	402	10:08	0.0	0.0	24.7	0.0
Bawana	400	425	4:04	403	11:10	0.0	0.0	19.5	0.0
Bassi	400	435	4:03	397	9:18	0.0	0.0	28.3	6.5
Hissar	400	410	20:42	395	15:19	0.0	0.0	0.0	0.0
Moga	400	419	16:05	393	9:07	0.0	0.0	0.0	0.0
Abdullapur	400	426	23:07	400	10:15	0.0	0.0	30.7	0.0
Nalagarh	400	425	20:44	401	10:07	0.0	0.0	9.5	0.0
Kishenpur	400	430	16:05	389	11:10	0.0	0.1	0.4	0.0
Wagoora	400	421	16:05	368	11:07	39.1	78.0	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	498.31	1029.80	505.58	1339.30	195.36	496.59
Pong	426.72	384.05	413.83	633.63	416.09	718.14	67.96	401.48
Tehri	829.79	740.04	818.80	975.00	818.65	982.26	52.44	124.00
Koteshwar	612.50	598.50	608.15	3.76	NA	NA	124.00	160.00
Chamera-I	760.00	748.75	NA	NA	NA	NA	58.35	52.20
Rihand	268.22	252.98	262.46	500.10	264.14	617.70	NA	NA
RPS	352.80	343.81	349.22	NA	NA	NA	NA	NA
Jawahar Sagar	298.70	295.78	297.27	NA	NA	NA	NA	NA
RSD	527.91	487.91	519.27	NA	515.67	NA	54.14	166.08

* NA: Not Available

IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

XI. Weather Conditions For 10.12.2012 :
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 : 10.12.2012

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER