

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरसिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 26.11.2012

Date of Reporting : 27.11.2012

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
31155	3670	34824	50.02	25781	830	26611	0.00	683.8	43.91

* 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	45.03	8.65		53.68	32.34	31.69	-0.65	85.37	1.80
Haryana	57.16	0.60		57.76	36.52	36.26	-0.27	94.02	6.75
Rajasthan	89.11	4.76	2.57	96.43	64.26	63.42	-0.84	159.85	0.00
Delhi	30.36			30.36	25.50	24.23	-1.26	54.59	0.19
UP	106.56	5.78	3.60	115.94	77.34	74.61	-2.73	190.55	31.49
Uttarakhand		8.30		8.30	19.70	20.12	0.42	28.42	1.96
HP		5.81		5.81	16.74	25.52	8.78	31.33	0.03
J & K		7.44	0.00	7.44	27.60	28.85	1.26	36.30	1.70
Chandigarh				0.00	3.34	3.33	-0.01	3.33	0.00
Total	328.21	41.35	6.17	375.73	303.35	308.04	4.69	683.77	43.91

* 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	4234	600	-19	-365	3011	0	24	66	-4.45
Haryana	4020	1383	-178	514	3184	0	-162	222	4.58
Rajasthan	6909	0	0	381	6379	0	-71	840	22.19
Delhi	2871	1	18	-1334	1308	0	-149	-2368	-39.45
UP	8346	1471	-105	625	8054	830	112	388	6.76
Uttarakhand	1458	115	73	398	965	0	-146	436	10.13
HP	1354	0	264	86	1277	0	527	307	4.65
J&K	1782	100	-277	533	1521	0	147	440	9.82
Chandigarh	181	0	-14	-22	82	0	-6	-31	-0.37
Total	31155	3670	-237	815	25781	830	276	300	13.86

* 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	1945	2087	2059	46.84	1951	46.68	0.16
Rihand I STPS	1000	460	509	500	11.13	464	11.04	0.09
Rihand II STPS	1000	889	919	985	20.82	868	21.12	-0.30
Rihand III STPS	500	218	225	225	5.16	215	5.20	-0.04
Dadri I STPS	840	810	830	615	17.35	723	17.44	-0.09
Dadri II STPS	980	975	944	721	20.45	852	20.99	-0.55
Unchahar I TPS	420	397	418	381	9.12	380	9.22	-0.09
Unchahar II TPS	420	404	441	341	9.13	380	9.14	-0.01
Unchahar III TPS	210	202	216	178	4.62	192	4.66	-0.04
ISTPP (Jhajhar)	1500	470	478	308	9.75	406	9.87	-0.12
Dadri GPS	830	839	364	381	9.03	376	9.11	-0.08
Anta GPS	419	282	252	228	5.92	247	5.88	0.05
Auraiya GPS	663	659	291	265	6.82	284	6.62	0.20
Sub Total (A)	10782	8550	7974	7187	176.14	7339	176.97	-0.84
B. NPC								
NAPS	440	281	315	326	6.78	283	6.74	0.04
RAPS- B	440	418	462	462	10.00	417	10.03	-0.03
RAPS- C	440	430	472	477	10.13	422	10.32	-0.19
Sub Total (B)	1320	1129	1249	1265	26.91	1121	27.10	-0.18
C. NHPC								
Chamera I HPS	540	550	360	0	2.44	102	2.43	0.00
Chamera II HPS	300	303	200	0	1.54	64	1.51	0.03
Chamera III HPS	231	231	154	0	0.98	41	0.89	0.08
Bairasuil HPS	180	182	20	0	0.59	25	0.57	0.03
Salai-HPS	690	136	215	120	3.01	125	3.20	-0.19
Tanakpur-HPS	94	38	38	30	0.97	40	0.90	0.07
Uri-HPS	480	112	234	44	2.59	108	2.49	0.10
Dhauliganga-HPS	280	288	138	0	1.17	49	1.13	0.03
Dulhasi-HPS	390	388	149	0	3.23	135	2.92	0.31
Sewa-II HPS	120	120	79	0	0.32	13	0.28	0.04
Sub Total (C)	3305	2347	1587	194	16.82	701	16.33	0.50
D.NJPC								
Nathpa Jhakri	1500	1605	916	0	7.84	327	8.05	-0.21
Sub Total (D)	1500	1605	916	0	7.84	327	8.05	-0.21
E. THDC								
Tehri HPS	1000	1050	960	0	7.70	321	7.50	0.20
Koteswar HPS	400	290	196	0	2.07	86	2.00	0.07
Sub Total (E)	1400	1340	1156	0	9.78	407	9.50	0.28
F. BBMB								
Bhakra HPS	1480	675	1102	412	16.58	691	16.20	0.38
Dehar HPS	990	130	495	0	3.49	145	3.12	0.38
Pong HPS	396	316	366	186	7.76	323	5.01	2.75
Sub Total (F)	2866	1121	1963	598	27.83	1160	24.32	3.51
G. IPP(s)/JV(s)								
ADHPL HPS(IPP)	192	0	0	0	0.58	24	0.65	-0.06
KWHEP HPS(IPP)	1000	0	170	0	4.32	180	4.38	-0.06
Malana Stg-II HPS	100	0	35	18	0.31	13	0.30	0.01
Shree Cement TPS	300	0	289	140	5.70	237	6.17	-0.47
Budhil HPS(IPP)	70	0	0	6	0.15	6	0.42	-0.28
Sub Total (G)	1662	0	494	164	11.06	461	11.91	-0.85
H. Total Regional Entities (A-G)	22836	16091	15339	9408	276.38	11516	274.17	2.21

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	1100	1060	25.23	1051
	Guru Nanak Dev TPS(Bhatinda)	440	215	215	4.67	195
	Guru Hargobind Singh TPS(L.mbt)	920	608	576	15.13	630
	Thermal (Total)	2620	1923	1851	45.03	1876
	Total Hydro	1148	318	268	8.65	360
	Total Punjab	3768	2241	2119	53.68	2237
Haryana	Panipat TPS	1367	946	910	22.36	932
	DCRTPP (Yamuna nagar)	600	0	0	0.00	0
	Faridabad GPS (NTPC)	432	144	94	3.25	135
	RGTPP (khedar) (IPP)	1200	844	919	22.16	923
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	1320	315	427	9.39	391
	Thermal (Total)	4944	2249	2350	57.16	2382
	Total Hydro	62	26	22	0.60	25
	Total Haryana	5006	2275	2372	57.76	2407
Rajasthan	kota TPS	1240	1152	1054	26.87	1119
	suratgarh TPS	1500	1280	1125	28.43	1184
	Chabra TPS	500	421	384	9.06	378
	Dholpur GPS	330	138	146	3.40	142
	Ramgarh GPS	111	79	81	2.08	86
	RAPS A (NPC)	300	179	179	4.34	181
	Barsingar (NLC)	250	106	102	2.43	101
	Giral LTPS	250	44	42	1.02	42
	Rajwest LTPS (IPP)	540	486	486	11.48	478
	VSLP LTPS (IPP)	135	0	0	0.00	0
	Thermal (Total)	5156	3885	3599	89.11	3713
	Total Hydro	550	89	168	4.76	198
	Wind power	2191	2	87	1.66	69
	Biomass	91	32	32	0.76	32
	Solar	201	4	0	0.15	6
	Renewable/Others (Total)	2483	34	119	2.57	107
		Total Rajasthan	8189	4008	3886	96.43
UP	Anpara TPS	1630	1054	1057	21.40	892
	Obra TPS	1382	519	501	11.10	463
	Paricha TPS	890	194	405	7.70	321
	Panki TPS	210	145	155	2.50	104
	Harduaganj TPS	665	224	272	5.80	242
	Tanda TPS (NTPC)	440	399	396	9.69	404
	Roza TPS (IPP)	1200	878	864	22.69	945
	Anpara-C (IPP)	1200	773	899	20.87	870
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	203	201	4.82	201
	Thermal (Total)	8067	4389	4750	106.56	4440
	Vishnuparyag HPS (IPP)	400	109	109	2.57	107
	Other Hydro	527	188	128	3.21	134
	Cogeneration	981	150	150	3.60	150
		Total UP	9975	4836	5137	115.94
Uttarakhand	Total Hydro	1303	393	350	8.30	346
	Total Uttarakhand	1303	393	350	8.30	346
Delhi	Raighat TPS	135	96	100	2.40	100
	Delhi Gas Turbine	282	160	156	3.89	162
	Pragati Gas Turbine	330	313	323	7.64	318
	Rithala GPS	108	20	0	0.21	9
	Bawana GPS	677	301	223	6.86	286
	Badarpur TPS (NTPC)	705	335	485	9.36	390
	Thermal (Total)	2237	1225	1287	30.36	1265
	Total Delhi	2237	1225	1287	30.36	1265
HP	Baspa HPS (IPP)	330	33	0	1.41	59
	Malana HPS (IPP)	86	40	0	0.32	13
	Other Hydro	589	177	162	4.08	170
		Total HP	1005	250	162	6
J & K	Baglihar HPS (IPP)	450	296	146	4.26	178
	Other Hydro	323	120	175	3.18	133
	Gas/Diesel/Others	183	0	0	0.00	0
		Total J & K	956	416	321	7.44
Total State Control Area Generation		32439	15644	15634	375.73	15548
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			1434	1126	33.30	1388
Total Regional Availability(Gross)		55275	32417	26168	685.41	28452

IV. Total Hydro Generation:

Regional Entities Hydro	10364	5827	810	67.49	2812
State Control Area Hydro	5368	1680	1419	41.35	1616
Total Regional Hydro	15731	7507	2229	108.83	4428

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	-350	-350	0	350	0.00	8.28	-8.28
Gwalior-Agra (D/C)	574	96	574	0	6.25	0.00	6.25
Zerda-Kankroli	-145	-137	0	227	0.00	3.11	-3.11
Zerda-Bhinmal	-50	-34	106	177	0.00	0.81	-0.81
Malanpur-Auraiya	-109	-165	0	187	0.00	3.16	-3.16
Badod-Kota/Morak	-122	-157	0	183	0.00	2.70	-2.70
Mundra-Mohindergarh(HVDC)	367	368	370	0	8.90	0.00	8.90
Sub Total WR	165	-379			15.15	18.06	-2.91
Pusauli Bypass	100	100	250	0	2.81	0.00	2.81
MZP- GKP (D/C)	360	426	520	0	8.93	0.00	8.93
Patna-Balia(D/C)	496	472	697	0	12.70	0.00	12.70
B'Sharif-Balia (D/C)	197	288	466	0	6.85	0.00	6.85
Barh - Balia(D/C)	0	0	0	0	0.00	0.00	0.00
Pusauli-Balia	-4	-6	58	45	0.00	0.31	-0.31
Gaya-Fatehpur (765 Kv)	31	133	233	0	3.06	0.00	3.06
Pusauli-Sahupuri	125	124	191	0	3.33	0.00	3.33
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-36	-32	0	47	0.00	1.16	-1.16
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sub Total ER	1269	1505			37.68	1.47	36.21
Total IR Exch	1434	1126			52.83	19.53	33.30

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
30.80	0.55	31.35	5.27	-15.58	-0.34	14.33	3.18	-3.18
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
39.46	3.52	42.98	36.21	-2.91	33.30	-3.25	-6.43	-9.68

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	4.20	96.25	92.05	59.95	3.75

<----- 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				
50.48	3.04	49.61	9.28	50.05	0.25	0.13	50.27	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	413	20:51	404	13:44	30.2	30.2	0.0	0.0
Gorakhpur	400	428	20:56	416	11:50	0.0	0.0	73.1	0.0
Bareilly	400	421	21:00	403	10:10	0.0	0.0	0.4	0.0
Kanpur	400	419	23:00	401	10:10	0.0	0.0	0.0	0.0
Dadri	400	426	23:37	409	10:06	0.0	0.0	31.2	0.0
Ballabhgarh	400	431	23:40	412	10:06	0.0	0.0	53.0	0.6
Bawana	400	429	23:37	412	10:16	0.0	0.0	42.8	0.0
Bassi	400	432	19:38	408	10:28	0.0	0.0	63.4	1.2
Hissar	400	417	21:01	400	10:10	0.0	0.0	0.0	0.0
Moga	400	418	12:58	401	18:07	0.0	0.0	0.0	0.0
Abdullapur	400	427	20:43	402	14:26	0.1	0.1	34.1	0.0
Nalagarh	400	420	12:58	409	10:08	0.0	0.0	0.0	0.0
Kishenpur	400	421	12:58	387	18:18	0.0	2.7	0.1	0.0
Wagoora	400	416	12:58	365	18:22	26.4	44.1	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	501.32	1153.36	507.97	1455.60	197.91	445.85
Pong	426.72	384.05	416.46	730.66	418.09	807.91	81.10	445.65
Tehri	829.79	740.04	822.20	1044.51	818.65	982.26	64.34	155.00
Koteswar	612.50	598.50	606.45	3.32	NA	NA	155.00	131.00
Chamera-I	760.00	748.75	NA	NA	NA	NA	58.40	59.28
Rihand	268.22	252.98	262.83	500.10	264.57	617.70	NA	NA
RPS	352.80	343.81	348.91	NA	NA	NA	NA	NA
Jawahar Sagar	298.70	295.78	297.39	NA	NA	NA	NA	NA
RSD	527.91	487.91	520.62	NA	518.41	NA	66.63	84.33

* NA: Not Available

IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

XI. Weather Conditions For 26.11.2012 :

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 : 26.11.2012

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER