

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरसिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 28.12.2012

Date of Reporting : 29.12.2012

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
34696	3561	38257	50.03	27790	652	28442	50.37	742.4	72.96

* 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	47.03	12.93		59.96	31.03	31.46	0.43	91.42	5.47
Haryana	63.57	0.58		64.15	47.29	47.61	0.32	111.76	0.45
Rajasthan	91.83	4.58	12.86	109.28	67.37	66.81	-0.56	176.08	1.08
Delhi	32.81			32.81	32.15	30.93	-1.22	63.74	2.46
UP	118.98	4.41	16.80	140.19	63.99	66.40	2.41	206.58	57.33
Uttarakhand		7.37		7.37	19.92	21.69	1.77	29.06	3.60
HP		4.62		4.62	18.85	19.60	0.75	24.22	0.88
J & K		3.68	0.00	3.68	27.95	31.93	3.99	35.62	1.70
Chandigarh				0.00	3.59	3.92	0.33	3.92	0.00
Total	354.22	38.16	29.66	422.05	312.12	320.35	8.23	742.40	72.96

* 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	4725	600	-67	-456	3020	0	1	12	-7.64	
Haryana	5574	0	-27	364	3831	0	-59	-95	2.15	
Rajasthan	7588	2	-64	663	7314	0	42	1195	29.41	
Delhi	3158	296	-70	-646	1408	2	-38	-1980	-28.41	
UP	8903	2466	16	-138	8565	630	88	-117	-7.28	
Uttarakhand	1613	80	150	430	1108	0	40	506	9.73	
HP	1214	17	-36	234	766	20	37	335	7.21	
J&K	1719	100	-114	391	1680	0	230	493	9.33	
Chandigarh	203	0	-14	0	98	0	9	-31	-1.13	
Total	34696	3561	-227	841	27790	652	351	318	14.38	

* 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	1950	2101	2030	46.90	1954	46.80	0.10
Rihand I STPS	1000	920	992	920	21.86	911	22.08	-0.22
Rihand II STPS	1000	975	1035	956	23.00	958	23.40	-0.40
Rihand III STPS	500	327	406	204	7.76	323	7.86	-0.10
Dadri I STPS	840	619	635	611	14.71	613	14.79	-0.08
Dadri II STPS	980	706	700	650	16.66	694	16.79	-0.13
Unchahar I TPS	420	405	435	324	9.28	387	9.39	-0.12
Unchahar II TPS	420	405	441	309	9.12	380	9.24	-0.12
Unchahar III TPS	210	202	219	163	4.62	192	4.62	0.00
ISTPP (Jhajihar)	1500	960	347	350	16.26	678	16.44	-0.18
Dadri GPS	830	847	412	314	8.96	373	9.29	-0.33
Anta GPS	419	438	207	181	5.19	216	5.27	-0.08
Auraiya GPS	663	676	332	253	6.96	290	6.66	0.29
Sub Total (A)	10782	9430	8262	7265	191.28	7970	192.65	-1.37
B. NPC								
NAPS	440	293	334	338	7.10	296	7.03	0.07
RAPS- B	440	209	233	236	4.71	196	5.02	-0.31
RAPS- C	440	220	237	237	5.10	213	5.28	-0.18
Sub Total (B)	1320	722	804	811	16.91	705	17.33	-0.42
C. NHPC								
Chamera I HPS	540	365	180	0	2.24	93	2.21	0.03
Chamera II HPS	300	303	190	0	1.01	42	0.96	0.05
Chamera III HPS	231	231	174	0	0.61	25	0.67	-0.07
Bairasuil HPS	180	182	100	0	0.51	21	0.50	0.01
Salai-HPS	690	117	229	108	2.70	112	2.79	-0.09
Tanakpur-HPS	94	30	30	28	0.67	28	0.72	-0.05
Uri-HPS	480	112	207	49	2.89	120	2.74	0.15
Dhauliganga-HPS	280	210	204	0	1.57	65	1.16	0.41
Dulhasi-HPS	390	388	245	0	2.40	100	2.53	-0.13
Sewa-II HPS	120	80	70	0	0.30	13	0.29	0.01
Sub Total (C)	3305	2017	1629	185	14.88	620	14.56	0.32
D.NJPC								
Nathpa Jhakri	1500	1605	1056	0	7.08	295	7.05	0.03
Sub Total (D)	1500	1605	1056	0	7.08	295	7.05	0.03
E. THDC								
Tehri HPS	1000	1050	921	0	10.55	440	10.50	0.05
Koteshwar HPS	400	300	200	85	3.44	143	3.40	0.04
Sub Total (E)	1400	1350	1121	85	13.99	583	13.90	0.09
F. BBMB								
Bhakra HPS	1480	652	1105	409	15.97	665	15.65	0.32
Dehar HPS	990	124	495	0	3.05	127	2.99	0.06
Pong HPS	396	242	306	120	6.05	252	5.01	1.04
Sub Total (F)	2866	1019	1906	529	25.07	1045	23.64	1.43
G. IPP(s)/JV(s)								
ADHPL HPS(IPP)	192	0	0	0	0.45	19	0.52	-0.07
KWHEP HPS(IPP)	1000	0	0	0	0.00	0	0.00	0.00
Malana Stg-II HPS	100	0	26	0	0.15	6	0.15	0.00
Shree Cement TPS	300	0	0	254	1.69	70	5.78	-4.09
Budhil HPS(IPP)	70	0	0	0	0.03	1	0.16	-0.14
Sub Total (G)	1662	0	26	254	2.32	97	6.61	-4.29
H. Total Regional Entities (A-G)	22836	16142	14804	9129	271.53	11314	275.74	-4.21

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	1053	745	21.92	913
	Guru Nanak Dev TPS(Bhatinda)	440	216	190	4.42	184
	Guru Hargobind Singh TPS(L.mbt)	920	968	768	20.70	862
	Thermal (Total)	2620	2237	1703	47.03	1960
	Total Hydro	1148	559	445	12.93	539
	Total Punjab	3768	2796	2148	59.96	2498
Haryana	Panipat TPS	1367	898	822	20.83	868
	DCRTPP (Yamuna nagar)	600	0	0	0.00	0
	Faridabad GPS (NTPC)	432	432	274	9.29	387
	RGTPP (khedar) (IPP)	1200	883	480	16.29	679
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	1320	732	693	17.17	715
	Thermal (Total)	4944	196	2269	63.57	2649
	Total Hydro	62	23	24	0.58	24
	Total Haryana	5006	219	2293	64.15	2673
Rajasthan	kota TPS	1240	1172	1079	27.72	1155
	suratgarh TPS	1500	1326	1133	29.81	1242
	Chabra TPS	500	432	405	9.70	404
	Dholpur GPS	330	128	127	3.19	133
	Ramgarh GPS	111	84	84	1.99	83
	RAPS A (NPC)	300	181	181	4.39	183
	Barsingar (NLC)	250	111	112	2.51	105
	Giral LTPS	250	115	53	1.50	63
	Rajwest LTPS (IPP)	540	482	482	11.01	459
	VSLP LTPS (IPP)	135	0	0	0.00	0
	Thermal (Total)	5156	4031	3656	91.83	3826
	Total Hydro	550	153	115	4.58	191
	Wind power	2191	296	439	12.23	510
	Biomass	91	20	20	0.48	20
	Solar	201	4	0	0.15	6
	Renewable/Others (Total)	2483	316	459	12.86	536
	Total Rajasthan	8189	4500	4230	109.28	4553
	UP	Anpara TPS	1630	1254	1235	30.00
Obra TPS		1382	430	452	9.90	413
Paricha TPS		890	568	570	13.60	567
Panki TPS		210	59	63	1.40	58
Harduaganj TPS		665	212	232	5.20	217
Tanda TPS (NTPC)		440	400	400	9.79	408
Roza TPS (IPP)		1200	1012	968	24.05	1002
Anpara-C (IPP)		1200	635	733	15.58	649
Bajaj Energy Pvt.Ltd(IPP) TPS		450	405	405	9.46	394
Thermal (Total)		8067	4975	5058	118.98	4957
Vishnuparyag HPS (IPP)		400	0	0	0.00	0
Other Hydro		527	168	190	4.41	184
Cogeneration		981	700	700	16.80	700
Total UP		9975	5843	5948	140.19	5841
Uttarakhand		Total Hydro	1303	441	223	7.37
	Total Uttarakhand	1303	441	223	7.37	307
Delhi	Raighat TPS	135	104	102	2.77	115
	Delhi Gas Turbine	282	117	89	2.77	115
	Pragati Gas Turbine	330	312	287	7.61	317
	Rithala GPS	108	0	0	0.00	0
	Bawana GPS	677	223	209	5.29	221
	Badarpur TPS (NTPC)	705	695	600	14.37	599
	Thermal (Total)	2237	1451	1287	32.81	1367
	Total Delhi	2237	1451	1287	32.81	1367
HP	Baspa HPS (IPP)	330	29	29	1.20	50
	Malana HPS (IPP)	86	39	0	0.19	8
	Other Hydro	589	198	82	3.22	134
	Total HP	1005	266	111	5	192
J & K	Baglihar HPS (IPP)	450	148	148	3.68	154
	Other Hydro	323	0	0	0.00	0
	Gas/Diesel/Others	183	0	0	0.00	0
	Total J & K	956	148	148	3.68	154
Total State Control Area Generation		32439	15664	16388	422.05	17585
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			2510	2849	63.85	2660
Total Regional Availability(Gross)		55275	32978	28366	757.43	31560

IV. Total Hydro Generation:

Regional Entities Hydro	10364	5738	799	61.63	2568
State Control Area Hydro	5368	1758	1256	38.16	1590
Total Regional Hydro	15731	7496	2055	99.79	4158

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	-150	-200	200	300	0.67	2.13	-1.47
Gwalior-Agra (D/C)	322	577	759	0	11.28	0.00	11.28
Zerda-Kankroli	-40	91	142	170	0.00	0.11	-0.11
Zerda-Bhinmal	33	151	271	74	1.24	0.00	1.24
Malanpur-Auraiya	-175	-63	0	175	0.00	2.29	-2.29
Badod-Kota/Morak	-57	-19	38	95	0.00	4.98	-4.98
Mundra-Mohindergarh(HVDC)	599	598	600	0	14.43	0.00	14.43
Sub Total WR	532	1135			27.62	9.51	18.10
Pusauli Bypass	-100	-100	100	100	1.61	0.76	0.86
MZP- GKP (D/C)	420	508	586	0	10.49	0.00	10.49
Patna-Balia(D/C)	990	818	1016	0	21.59	0.00	21.59
B'Sharif-Balia (D/C)	420	261	522	0	8.34	0.00	8.34
Barh - Balia(D/C)	0	0	0	0	0.00	0.00	0.00
Pusauli-Balia	117	-27	180	61	0.47	0.00	0.47
Gaya-Fatehpur (765 Kv)	0	192	207	0	2.24	0.00	2.24
Pusauli-Sahupuri	168	94	168	0	2.80	0.00	2.80
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-37	-32	0	48	0.00	1.04	-1.04
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sub Total ER	1978	1714			47.55	1.80	45.75
Total IR Exch	2510	2849			75.16	11.31	63.85

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
38.21	0.20	38.41	7.18	-18.77	-0.08	19.89	-3.40	3.42
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
42.11	15.73	57.84	45.75	18.10	63.85	3.63	2.37	6.01

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	0.10	2.70	90.50	87.90	49.00	9.40

<----- 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				
50.45	3.06	49.48	7.27	50.00	0.26	0.16	50.45	49.77

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	23:56	397	12:06	0.0	0.0	0.0	0.0
Gorakhpur	400	427	3:03	414	7:26	0.0	0.0	36.8	0.0
Bareilly	400	422	3:04	399	12:06	0.0	0.0	0.5	0.0
Kanpur	400	421	4:02	397	12:04	0.0	0.0	0.1	0.0
Dadri	400	418	3:02	397	12:03	0.0	0.0	0.0	0.0
Ballabhgarh	400	427	4:03	402	12:01	0.0	0.0	21.8	0.0
Bawana	400	423	4:02	401	12:04	0.0	0.0	11.0	0.0
Bassi	400	434	4:03	396	12:06	0.0	0.0	25.7	2.4
Hissar	400	412	4:04	389	12:04	0.0	0.0	0.0	0.0
Moga	400	420	20:50	396	9:39	0.0	0.0	0.0	0.0
Abdullapur	400	421	4:02	401	11:55	0.0	0.0	0.7	0.0
Nalagarh	400	421	5:26	402	11:11	0.0	0.0	0.6	0.0
Kishenpur	400	416	13:00	392	15:52	0.0	0.0	0.0	0.0
Wagoora	400	404	13:01	365	18:13	22.3	72.2	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	495.54	926.03	502.73	1205.67	140.82	432.94
Pong	426.72	384.05	411.18	534.70	414.10	644.91	72.72	382.25
Tehri	829.79	740.04	812.45	842.28	818.65	982.26	51.83	242.00
Koteshwar	612.50	598.50	609.40	4.21	NA	NA	242.00	228.00
Chamera-I	760.00	748.75	NA	NA	NA	NA	48.31	60.62
Rihand	268.22	252.98	261.82	500.10	263.59	617.70	NA	NA
RPS	352.80	343.81	NA	NA	NA	NA	NA	NA
Jawahar Sagar	298.70	295.78	NA	NA	NA	NA	NA	NA
RSD	527.91	487.91	516.88	NA	510.74	NA	67.03	220.79

* NA: Not Available

IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

XI. Weather Conditions For 28.12.2012 :

1. Scattered rain in J&K, Cloudy weather in Punjab / Shallow Fog in other parts of northern region except Rajasthan.

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 : 28.12.2012

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER