

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरसिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 31.12.2012
Date of Reporting : 01.01.2013

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
34744	3087	37830	50.08	27529	345	27874	50.21	741.5	64.90

* 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 * (MU)
Punjab	49.35	11.92		61.26	32.01	32.21	0.21	93.48	5.27
Haryana	64.49	0.58		65.07	39.68	38.12	-1.56	103.19	0.31
Rajasthan	93.16	5.17	5.42	103.76	73.03	73.06	0.03	176.81	1.61
Delhi	31.09			31.09	33.10	26.40	-6.70	57.49	1.63
UP	118.88	3.96	16.80	139.64	71.10	74.48	3.38	214.11	52.69
Uttarakhand		8.10		8.10	22.49	22.88	0.39	30.97	0.98
HP		5.88		5.88	18.45	19.71	1.26	25.59	0.72
J & K		3.55	0.00	3.55	28.96	32.16	3.21	35.72	1.70
Chandigarh				0.00	3.70	4.11	0.41	4.11	0.00
Total	356.96	39.17	22.22	418.35	322.50	323.11	0.62	741.46	64.90

* 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	4838	600	-98	-477	2913	0	19	45	-4.99	
Haryana	5238	9	54	-245	3678	0	46	-213	-6.02	
Rajasthan	7701	0	-386	1142	6756	0	204	884	33.69	
Delhi	3312	107	38	-673	1387	0	-93	-1539	-26.81	
UP	8660	2271	33	-138	9406	345	228	-104	-5.67	
Uttarakhand	1658	0	58	454	1061	0	-86	458	10.14	
HP	1284	0	85	235	673	0	-47	335	6.93	
J&K	1837	100	-50	396	1557	0	63	499	9.47	
Chandigarh	216	0	5	0	98	0	7	-31	-0.09	
Total	34744	3087	-261	694	27529	345	341	334	16.65	

* 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	2098	1812	45.93	1914	45.66	0.27
Rihand I STPS	1000	920	995	884	21.67	903	21.62	0.05
Rihand II STPS	1000	975	1048	927	22.71	946	22.76	-0.04
Rihand III STPS	500	359	402	320	8.52	355	8.36	0.16
Dadri I STPS	840	619	623	620	14.68	612	14.59	0.09
Dadri II STPS	980	706	779	640	16.72	697	16.79	-0.07
Unchahar I TPS	420	405	732	407	9.53	397	9.54	0.00
Unchahar II TPS	420	405	442	330	9.22	384	9.37	-0.15
Unchahar III TPS	210	202	222	176	4.63	193	4.65	-0.01
ISTPP (Jhajjar)	1500	960	805	665	16.79	700	16.44	0.35
Dadri GPS	830	845	356	411	8.69	362	8.82	-0.13
Anta GPS	419	438	227	196	5.46	227	5.69	-0.23
Auraiya GPS	663	678	316	303	6.85	285	6.69	0.16
Sub Total (A)	10782	9461	9045	7691	191.39	7975	190.96	0.44
B. NPC								
NAPS	440	297	337	334	7.14	298	7.13	0.01
RAPS- B	440	209	233	234	5.01	209	5.02	-0.01
RAPS- C	440	220	237	231	4.94	206	5.28	-0.34
Sub Total (B)	1320	726	807	799	17.09	712	17.42	-0.34
C. NHPC								
Chamera I HPS	540	446	180	0	2.13	89	2.24	-0.11
Chamera II HPS	300	303	8	0	1.39	58	1.31	0.09
Chamera III HPS	231	231	80	0	0.70	29	0.70	0.00
Bairasuil HPS	180	182	20	0	0.51	21	0.56	-0.05
Salai-HPS	690	116	100	98	2.92	122	2.77	0.15
Tanakpur-HPS	94	32	32	25	0.71	30	0.77	-0.05
Uri-HPS	480	145	213	118	3.70	154	3.32	0.38
Dhauliganga-HPS	280	280	274	0	1.21	50	1.20	0.01
Dulhasi-HPS	390	388	309	0	2.63	109	2.60	0.03
Sewa-II HPS	120	73	39	0	0.30	13	0.30	0.00
Sub Total (C)	3305	2195	1255	241	16.21	675	15.76	0.45
D. NJPC								
Nathpa Jhakri	1500	1605	817	0	6.84	285	7.00	-0.16
Sub Total (D)	1500	1605	817	0	6.84	285	7.00	-0.16
E. THDC								
Tehri HPS	1000	1050	1040	0	10.93	456	10.50	0.43
Koteshwar HPS	400	400	397	86	3.67	153	3.60	0.06
Sub Total (E)	1400	1450	1437	86	14.60	608	14.10	0.50
F. BBMB								
Bhakra HPS	1480	644	1106	419	16.21	675	15.45	0.76
Dehar HPS	990	128	495	0	3.43	143	3.08	0.35
Pong HPS	396	186	306	66	4.75	198	5.01	-0.26
Sub Total (F)	2866	958	1907	485	24.39	1016	23.54	0.85
G. IPP(s)/JV(s)								
ADHPL HPS(IPP)	192	0	0	0	0.44	19	0.52	-0.08
KWHEP HPS(IPP)	1000	0	0	0	0.00	0	0.00	0.00
Malana Stg-II HPS	100	0	22	0	0.18	7	0.15	0.03
Shree Cement TPS	300	0	270	250	6.32	263	6.33	-0.01
Budhil HPS(IPP)	70	0	5	0	0.02	1	0.16	-0.14
Sub Total (G)	1662	0	297	250	6.96	290	7.17	-0.21
H. Total Regional Entities (A-G)	22836	16395	15565	9552	277.48	11562	275.95	1.53

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	1051	810	22.43	935	
	Guru Nanak Dev TPS(Bhatinda)	440	344	295	7.10	296	
	Guru Hargobind Singh TPS(L.mbt)	920	967	693	19.82	826	
	Thermal (Total)	2620	2362	1798	49.35	2056	
	Total Hydro	1148	544	254	11.92	497	
	Total Punjab	3768	2906	2052	61.26	2553	
Haryana	Panipat TPS	1367	929	884	22.42	934	
	DCRTPP (Yamuna nagar)	600	280	284	6.68	278	
	Faridabad GPS (NTPC)	432	438	275	6.58	274	
	RGTPP (khedar) (IPP)	1200	878	886	20.67	861	
	Magnum Diesel (IPP)	25	0	0	0.00	0	
	Jhajjar(CLP)	1320	293	357	8.14	339	
	Thermal (Total)	4944	196	2686	64.49	2687	
	Total Hydro	62	25	23	0.58	24	
	Total Haryana	5006	221	2709	65.07	2711	
Rajasthan	kota TPS	1240	1165	1075	26.90	1121	
	suratgarh TPS	1500	1185	1129	29.18	1216	
	Chabra TPS	500	410	402	9.44	393	
	Dholpur GPS	330	145	139	3.20	134	
	Ramgarh GPS	111	82	85	2.05	85	
	RAPS A (NPC)	300	181	181	9.45	394	
	Barsingar (NLC)	250	108	119	2.47	103	
	Giral LTPS	250	114	87	2.13	89	
	Rajwest LTPS (IPP)	540	363	365	8.34	347	
	VSLP LTPS (IPP)	135	0	0	0.00	0	
	Thermal (Total)	5156	3753	3582	93.16	3882	
	Total Hydro	550	205	161	5.17	216	
	Wind power	2191	206	220	4.82	201	
	Biomass	91	19	19	0.47	19	
	Solar	201	3	0	0.14	6	
	Renewable/Others (Total)	2483	225	239	5.42	226	
	Total Rajasthan	8189	4183	3982	103.76	4323	
	UP	Anpara TPS	1630	1377	1375	29.50	1229
		Obra TPS	1382	291	552	10.70	446
Paricha TPS		890	677	673	14.40	600	
Panki TPS		210	75	70	1.50	63	
Harduaganj TPS		665	155	150	3.10	129	
Tanda TPS (NTPC)		440	400	403	9.76	406	
Roza TPS (IPP)		1200	1089	1026	26.05	1085	
Anpara-C (IPP)		1200	577	649	13.69	570	
Bajaj Energy Pvt.Ltd(IPP) TPS		450	405	402	10.19	425	
Thermal (Total)		8067	5046	5300	118.88	4953	
Vishnuparyag HPS (IPP)		400	0	0	0.00	0	
Other Hydro		527	149	222	3.96	165	
Cogeneration		981	700	700	16.80	700	
Total UP		9975	5895	6222	139.64	5818	
Uttarakhand		Total Hydro	1303	455	268	8.10	337
	Total Uttarakhand	1303	455	268	8.10	337	
Delhi	Raighat TPS	135	106	106	2.49	104	
	Delhi Gas Turbine	282	158	110	3.72	155	
	Pragati Gas Turbine	330	320	270	7.55	315	
	Rithala GPS	108	21	0	0.38	16	
	Bawana GPS	677	220	204	5.12	213	
	Badarpur TPS (NTPC)	705	475	580	11.83	493	
	Thermal (Total)	2237	1300	1270	31.09	1295	
Total Delhi	2237	1300	1270	31.09	1295		
HP	Baspa HPS (IPP)	330	38	0	1.03	43	
	Malana HPS (IPP)	86	40	0	1.95	81	
	Other Hydro	589	156	110	2.91	121	
	Total HP	1005	234	110	6	245	
J & K	Baglihar HPS (IPP)	450	152	146	3.55	148	
	Other Hydro	323	0	0	0.00	0	
	Gas/Diesel/Others	183	0	0	0.00	0	
	Total J & K	956	152	146	3.55	148	
Total State Control Area Generation		32439	15346	16759	418.35	17431	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			3186	2457	72.50	3021	
Total Regional Availability(Gross)		55275	34097	28768	768.33	32014	

IV. Total Hydro Generation:

Regional Entities Hydro	10364	5438	812	62.66	2611
State Control Area Hydro	5368	1764	1184	39.17	1632
Total Regional Hydro	15731	7202	1996	101.83	4243

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	-200	400	300	1.09	4.33	-3.25
Gwalior-Agra (D/C)	581	322	839	0	11.40	0.00	11.40
Zerda-Kankroli	108	62	194	42	1.89	0.00	1.89
Zerda-Bhinmal	190	120	293	35	3.82	0.00	3.82
Malanpur-Auraiya	-148	-127	0	152	0.00	2.58	-2.58
Badod-Kota/Morak	28	-15	89	65	0.12	0.00	0.12
Mundra-Mohindergarh(HVDC)	601	600	602	0	14.40	0.00	14.40
Sub Total WR	1160	762			32.72	6.92	25.80
Pusauli Bypass	100	100	100	0	2.45	0.00	2.45
MZP- GKP (D/C)	400	430	578	0	10.82	0.00	10.82
Patna-Balia(D/C)	950	714	1100	0	19.79	0.00	19.79
B'Sharif-Balia (D/C)	333	222	474	0	7.33	0.00	7.33
Barh - Balia(D/C)	0	0	0	0	0.00	0.00	0.00
Pusauli-Balia	-3	-36	55	66	0.00	0.27	-0.27
Gaya-Fatehpur (765 Kv)	144	164	309	0	4.69	0.00	4.69
Pusauli-Sahupuri	139	133	197	0	2.94	0.00	2.94
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	2026	1695			48.01	1.32	46.70
Total IR Exch	3186	2457			80.73	8.23	72.50

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
41.67	0.23	41.90	4.50	-19.71	-0.31	25.15	-3.67	3.67
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
42.41	26.06	68.48	46.70	25.80	72.50	4.28	-0.26	4.02

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	8.78	95.94	87.16	53.75	4.06

<----- 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				
50.51	21.43	49.59	8.43	50.02	0.27	0.14	50.43	49.76

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	408	3:39	0	15:14	15.7	15.7	0.0	0.0
Gorakhpur	400	423	21:35	408	13:53	0.0	0.0	12.1	0.0
Bareilly	400	423	4:04	394	8:30	0.0	0.0	1.7	0.0
Kanpur	400	420	3:09	395	8:27	0.0	0.0	0.0	0.0
Dadri	400	420	3:04	400	7:53	0.0	0.0	0.0	0.0
Ballabhgarh	400	428	3:09	404	8:39	0.0	0.0	18.0	0.0
Bawana	400	426	4:04	405	8:40	0.0	0.0	14.3	0.0
Bassi	400	434	3:15	396	6:50	0.0	0.0	12.3	3.5
Hissar	400	414	4:04	393	7:40	0.0	0.0	0.0	0.0
Moga	400	422	4:03	400	7:39	0.0	0.0	0.6	0.0
Abdullapur	400	424	20:52	407	10:36	0.0	0.0	9.9	0.0
Nalagarh	400	424	4:04	401	10:42	0.0	0.0	6.0	0.0
Kishenpur	400	424	3:59	390	21:05	0.0	0.0	0.8	0.0
Wagoora	400	414	15:39	361	21:05	27.4	55.6	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	494.97	903.28	502.20	1192.70	132.30	447.21
Pong	426.72	384.05	410.84	524.54	413.73	622.40	66.71	300.44
Tehri	829.79	740.04	811.05	822.28	818.65	982.26	48.72	252.00
Koteshwar	612.50	598.50	609.90	4.44	NA	NA	252.00	243.00
Chamera-I	760.00	748.75	NA	NA	NA	NA	51.78	64.97
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 31.12.2012 :

1. Scattered rain & snow in J&K,HP , Ultrakhand / Shallow Fog in other parts of northern region .

XII. Synchronisation of new generating units :

0.00

XIII. Synchronisation of new 220 / 400 / 765 KV lines and energising of bus / /substation :

1. 3*80 MVAR Bus reactor at 765 kV Agra S/S (Powergrid) first time test charged at 17:55 Hrs/31.12.2012.

XIV. Tripping of lines in pooling stations :

XV. Complete generation loss in a generating station :

Report for : 31.12.2012

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER