

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरसिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 29.12.2012

Date of Reporting : 30.12.2012

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
34091	2341	36432	50.21	26728	450	27178	50.31	727.4	63.60

* 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	46.38	12.51		58.89	30.24	30.94	0.71	89.83	7.60
Haryana	65.32	0.55		65.87	39.67	41.01	1.34	106.88	0.44
Rajasthan	91.42	4.87	9.10	105.39	66.46	66.60	0.14	171.99	1.74
Delhi	32.09			32.09	31.62	29.06	-2.56	61.15	0.02
UP	119.38	3.23	16.80	139.41	68.26	68.16	-0.09	207.57	48.90
Uttarakhand		7.95		7.95	18.81	20.78	1.96	28.73	3.14
HP		4.24		4.24	19.23	20.38	1.15	24.61	0.06
J & K		3.68	0.00	3.68	28.29	29.29	1.00	32.97	1.70
Chandigarh				0.00	3.52	3.63	0.11	3.63	0.00
Total	354.60	37.03	25.90	417.52	306.08	309.84	3.76	727.36	63.60

* 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	4722	1201	13	-477	2729	0	-65	6	-8.48	
Haryana	5366	0	117	62	3507	0	-69	-198	-5.25	
Rajasthan	7685	0	-179	1060	7208	0	-29	1082	28.59	
Delhi	3100	0	44	-755	1432	0	-123	-2126	-29.73	
UP	8451	930	-472	-138	8684	330	298	-117	-5.46	
Uttarakhand	1511	110	115	310	1010	120	96	413	8.45	
HP	1292	0	52	234	753	0	3	359	7.41	
J&K	1768	100	-90	388	1308	0	-151	493	9.33	
Chandigarh	195	0	-24	0	98	0	7	-31	-0.21	
Total	34091	2341	-423	683	26728	450	-33	-118	4.63	

* 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)	Schedule Net MU	UI [OG:(+ve), UG: (-ve)]	
								UI Net MU	UI Net MU
A. NTPC									
Singrauli STPS	2000	1950	2081	1894	45.72	1905	46.80	-1.08	
Rihand I STPS	1000	920	990	915	21.57	899	22.08	-0.51	
Rihand II STPS	1000	975	1020	943	22.77	949	23.40	-0.63	
Rihand III STPS	500	291	347	287	7.21	301	6.99	0.22	
Dadri I STPS	840	619	618	614	14.58	607	14.79	-0.22	
Dadri II STPS	980	706	685	614	15.99	666	16.79	-0.80	
Unchahar I TPS	420	405	429	387	9.20	383	9.57	-0.37	
Unchahar II TPS	420	405	432	341	9.04	377	9.43	-0.39	
Unchahar III TPS	210	202	208	179	4.54	189	4.73	-0.19	
ISTPP (Jhajjhar)	1500	960	659	628	15.71	655	15.77	-0.05	
Dadri GPS	830	846	412	368	9.27	386	9.88	-0.61	
Anta GPS	419	438	211	178	5.31	221	5.56	-0.25	
Auraiya GPS	663	676	304	230	6.94	289	7.08	-0.14	
Sub Total (A)	10782	9393	8396	7578	187.86	7827	192.87	-5.01	
B. NPC									
NAPS	440	293	331	337	7.16	299	7.03	0.13	
RAPS- B	440	209	232	235	4.74	197	5.02	-0.28	
RAPS- C	440	220	239	239	5.13	214	5.28	-0.15	
Sub Total (B)	1320	722	802	811	17.03	710	17.33	-0.30	
C. NHPC									
Chamera I HPS	540	365	180	0	2.31	96	2.29	0.02	
Chamera II HPS	300	303	147	0	1.21	50	1.21	0.00	
Chamera III HPS	231	231	0	0	0.67	28	0.71	-0.04	
Bairasuil HPS	180	182	20	0	0.51	21	0.56	-0.05	
Salai-HPS	690	146	203	105	3.36	140	3.57	-0.21	
Tanakpur-HPS	94	32	32	30	0.74	31	0.87	-0.13	
Uri-HPS	480	119	206	30	2.84	118	2.70	0.14	
Dhauliganga-HPS	280	214	129	0	0.84	35	0.91	-0.07	
Dulhasi-HPS	390	388	169	0	2.14	89	2.42	-0.28	
Sewa-II HPS	120	80	11	0	0.24	10	0.24	0.00	
Sub Total (C)	3305	2058	1097	165	14.87	619	15.48	-0.61	
D.NJPC									
Nathpa Jhakri	1500	1605	1056	0	6.93	289	7.00	-0.07	
Sub Total (D)	1500	1605	1056	0	6.93	289	7.00	-0.07	
E. THDC									
Tehri HPS	1000	1003	748	0	10.39	433	10.50	-0.11	
Koteshwar HPS	400	338	300	73	3.44	143	3.40	0.04	
Sub Total (E)	1400	1341	1048	73	13.83	576	13.90	-0.07	
F. BBMB									
Bhakra HPS	1480	628	1107	418	15.50	646	15.06	0.44	
Dehar HPS	990	124	495	0	2.98	124	2.98	0.00	
Pong HPS	396	199	306	66	5.00	208	5.01	-0.01	
Sub Total (F)	2866	951	1908	484	23.48	978	23.04	0.44	
G. IPP(s)/JV(s)									
ADHPL HPS(IPP)	192	0	0	0	0.43	18	0.52	-0.09	
KWHEP HPS(IPP)	1000	0	0	0	0.00	0	0.00	0.00	
Malana Stg-II HPS	100	0	22	0	0.18	8	0.15	0.03	
Shree Cement TPS	300	0	282	277	6.73	280	7.01	-0.28	
Budhil HPS(IPP)	70	0	5	0	0.03	1	0.16	-0.14	
Sub Total (G)	1662	0	309	277	7.37	307	7.84	-0.47	
H. Total Regional Entities (A-G)	22836	16069	14616	9388	271.36	11307	277.46	-6.10	

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	962	870	22.97	957	
	Guru Nanak Dev TPS(Bhatinda)	440	243	190	4.50	188	
	Guru Hargobind Singh TPS(L.mbt)	920	950	730	18.91	788	
	Thermal (Total)	2620	2155	1790	46.38	1933	
	Total Hydro	1148	546	291	12.51	521	
	Total Punjab	3768	2701	2081	58.89	2454	
Haryana	Panipat TPS	1367	916	860	21.81	909	
	DCRTPP (Yamuna nagar)	600	281	49	5.30	221	
	Faridabad GPS (NTPC)	432	432	275	9.55	398	
	RGTPP (khedar) (IPP)	1200	860	791	19.62	818	
	Magnum Diesel (IPP)	25	0	0	0.00	0	
	Jhajjar(CLP)	1320	359	352	9.04	377	
	Thermal (Total)	4944	196	2327	65.32	2722	
	Total Hydro	62	24	24	0.55	23	
	Total Haryana	5006	220	2351	65.87	2745	
Rajasthan	kota TPS	1240	1179	1171	26.86	1119	
	suratgarh TPS	1500	1303	1270	29.83	1243	
	Chabra TPS	500	427	400	9.68	403	
	Dholpur GPS	330	37	158	2.68	111	
	Ramgarh GPS	111	83	83	2.05	85	
	RAPS A (NPC)	300	181	181	4.41	184	
	Barsingar (NLC)	250	109	111	2.54	106	
	Giral LTPS	250	116	108	2.32	96	
	Rajwest LTPS (IPP)	540	482	482	11.06	461	
	VSLP LTPS (IPP)	135	0	0	0.00	0	
	Thermal (Total)	5156	3917	3964	91.42	3809	
	Total Hydro	550	130	122	4.87	203	
	Wind power	2191	420	133	8.53	355	
	Biomass	91	17	17	0.42	17	
	Solar	201	4	0	0.15	6	
	Renewable/Others (Total)	2483	437	150	9.10	379	
		Total Rajasthan	8189	4484	4236	105.39	4391
	UP	Anpara TPS	1630	1225	1224	29.80	1242
Obra TPS		1382	447	448	10.80	450	
Paricha TPS		890	526	580	14.10	588	
Panki TPS		210	59	41	1.20	50	
Harduaganj TPS		665	225	0	3.30	138	
Tanda TPS (NTPC)		440	391	398	9.76	406	
Roza TPS (IPP)		1200	1098	1014	25.65	1069	
Anpara-C (IPP)		1200	626	703	15.33	639	
Bajaj Energy Pvt.Ltd(IPP) TPS		450	405	405	9.45	394	
Thermal (Total)		8067	5002	4813	119.38	4974	
Vishnuparyag HPS (IPP)		400	0	0	0.00	0	
Other Hydro		527	142	139	3.23	135	
Cogeneration		981	700	700	16.80	700	
		Total UP	9975	5844	5652	139.41	5809
Uttarakhand	Total Hydro	1303	526	221	7.95	331	
	Total Uttarakhand	1303	526	221	7.95	331	
Delhi	Raighat TPS	135	106	105	2.52	105	
	Delhi Gas Turbine	282	151	164	3.81	159	
	Pragati Gas Turbine	330	311	319	7.52	313	
	Rithala GPS	108	0	0	0.00	0	
	Bawana GPS	677	101	200	4.30	179	
	Badarpur TPS (NTPC)	705	660	575	13.94	581	
	Thermal (Total)	2237	1329	1363	32.09	1337	
	Total Delhi	2237	1329	1363	32.09	1337	
HP	Baspa HPS (IPP)	330	28	0	0.89	37	
	Malana HPS (IPP)	86	38	0	0.20	8	
	Other Hydro	589	179	96	3.16	131	
		Total HP	1005	245	96	4	177
J & K	Baglihar HPS (IPP)	450	152	144	3.68	154	
	Other Hydro	323	0	0	0.00	0	
	Gas/Diesel/Others	183	0	0	0.00	0	
		Total J & K	956	152	144	3.68	154
Total State Control Area Generation		32439	15501	16144	417.52	17397	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			2181	2257	55.93	2330	
Total Regional Availability(Gross)		55275	32298	27789	744.81	31034	

IV. Total Hydro Generation:

Regional Entities Hydro	10364	5131	722	59.72	2488
State Control Area Hydro	5368	1765	1037	37.03	1543
Total Regional Hydro	15731	6896	1759	96.75	4031

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	-300	0	100	300	0.11	5.03	-4.93		
Gwalior-Agra (D/C)	354	373	749	0	9.94	0.00	9.94		
Zerda-Kankroli	23	1	104	135	0.00	0.29	-0.29		
Zerda-Bhinmal	78	78	229	79	1.28	0.00	1.28		
Malanpur-Auraiya	-203	-107	0	203	0.00	2.67	-2.67		
Badod-Kota/Morak	-24	-41	0	106	0.00	1.04	-1.04		
Mundra-Mohindergarh(HVDC)	598	597	600	0	14.18	0.00	14.18		
Sub Total WR	526	901			25.51	9.03	16.48		
Pusauli Bypass	100	100	100	0	2.45	0.00	2.45		
MZP- GKP (D/C)	393	246	626	0	8.72	0.00	8.72		
Patna-Balia(D/C)	813	645	905	0	18.45	0.00	18.45		
B'Sharif-Balia (D/C)	254	176	407	0	6.30	0.00	6.30		
Barh - Balia(D/C)	0	0	0	0	0.00	0.00	0.00		
Pusauli-Balia	-8	-60	53	126	0.00	0.53	-0.53		
Gaya-Fatehpur (765 Kv)	0	162	210	0	2.04	0.00	2.04		
Pusauli-Sahupuri	140	119	191	0	3.06	0.00	3.06		
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	1655	1356			41.02	1.57	39.45		
Total IR Exch	2181	2257			66.53	10.60	55.93		

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
42.15	0.27	42.42	1.73	-19.52	0.00	14.96	-3.69	3.69
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
40.45	10.60	51.05	39.45	16.48	55.93	-1.00	5.88	4.88

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	0.50	74.00	73.50	68.10	26.00

<----- 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				
50.53	20.55	49.66	10.28	50.08	0.32	0.16	50.50	49.89

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	411	4:05	398	13:48	0.0	0.0	0.0	0.0
Gorakhpur	400	430	5:17	411	12:43	0.0	0.0	59.5	0.0
Bareilly	400	424	4:07	402	9:08	0.0	0.0	1.8	0.0
Kanpur	400	420	4:04	398	8:38	0.0	0.0	0.0	0.0
Dadri	400	421	4:07	401	9:42	0.0	0.0	0.2	0.0
Ballabhgarh	400	427	4:04	405	12:07	0.0	0.0	18.5	0.0
Bawana	400	424	4:05	405	9:32	0.0	0.0	9.0	0.0
Bassi	400	434	4:07	400	8:39	0.0	0.0	16.4	2.3
Hissar	400	412	4:04	391	16:14	0.0	0.0	0.0	0.0
Moga	400	421	4:05	390	16:14	0.0	0.0	0.5	0.0
Abdullapur	400	423	4:06	404	16:14	0.0	0.0	6.7	0.0
Nalagarh	400	422	4:06	403	16:14	0.0	0.0	1.1	0.0
Kishenpur	400	424	4:05	389	16:15	0.0	0.1	2.2	0.0
Wagoora	400	409	4:04	370	19:25	28.3	64.3	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 29.12.2012 :

1. Scattered rain & snow in J&K,HP Cloudy weather in Punjab / 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 :

XIV. Tripping of lines in pooling stations :

XV. Complete generation loss in a generating station :

Report for : 29.12.2012

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER