

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरसिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 30.12.2012

Date of Reporting : 31.12.2012

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
33654	2130	35784	50.09	27968	935	28903	50.52	735.9	52.29

* 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	54.43	9.40		63.83	29.75	30.10	0.35	93.93	2.90
Haryana	69.11	0.57		69.68	38.66	37.80	-0.86	107.48	0.24
Rajasthan	88.86	4.77	10.59	104.23	68.20	68.06	-0.14	172.29	1.77
Delhi	33.03			33.03	30.21	26.40	-3.81	59.43	0.04
UP	118.73	4.64	16.80	140.17	68.77	70.25	1.48	210.42	45.01
Uttarakhand		7.37		7.37	22.38	22.91	0.53	30.28	0.64
HP		4.13		4.13	19.05	19.68	0.63	23.80	0.00
J & K		3.68	0.00	3.68	28.81	30.99	2.19	34.68	1.70
Chandigarh				0.00	3.37	3.59	0.21	3.59	0.00
Total	364.16	34.56	27.39	426.11	309.21	309.78	0.57	735.89	52.29

* 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	4295	600	-147	-479	3072	0	9	4	-6.02	
Haryana	5318	0	16	-149	3785	0	8	-202	-6.25	
Rajasthan	7438	0	-298	1219	7090	0	-48	967	32.62	
Delhi	3049	0	-108	-760	1413	0	-130	-2180	-30.99	
UP	8836	1430	-233	-138	9106	935	338	-117	-6.32	
Uttarakhand	1512	0	-4	530	1093	0	-34	479	11.89	
HP	1187	0	-58	234	747	0	26	335	7.22	
J&K	1831	100	-48	395	1571	0	100	498	9.45	
Chandigarh	188	0	-5	-5	91	0	1	-31	-0.35	
Total	33654	2130	-884	847	27968	935	270	-247	11.24	

* 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	2075	1978	46.94	1956	46.80	0.14
Rihand I STPS	1000	920	980	963	21.75	906	21.93	-0.18
Rihand II STPS	1000	975	1031	955	22.83	951	23.23	-0.40
Rihand III STPS	500	325	399	314	7.87	328	7.79	0.08
Dadri I STPS	840	619	640	601	14.40	600	14.50	-0.10
Dadri II STPS	980	706	685	546	16.19	675	16.54	-0.35
Unchahar I TPS	420	405	431	369	9.16	382	9.41	-0.25
Unchahar II TPS	420	405	434	347	8.92	372	9.28	-0.36
Unchahar III TPS	210	202	217	179	4.50	188	4.65	-0.15
ISTPP (Jhajhar)	1500	960	670	648	15.70	654	15.35	0.35
Dadri GPS	830	846	312	427	8.03	335	8.23	-0.20
Anta GPS	419	438	185	180	4.81	200	5.20	-0.39
Auraiya GPS	663	675	256	284	6.42	268	6.35	0.07
Sub Total (A)	10782	9426	8315	7791	187.53	7814	189.25	-1.73
B. NPC								
NAPS	440	295	334	335	7.08	295	7.08	0.00
RAPS- B	440	209	233	234	4.95	206	5.02	-0.07
RAPS- C	440	220	236	238	4.99	208	5.28	-0.30
Sub Total (B)	1320	724	803	807	17.02	709	17.38	-0.36
C. NHPC								
Chamera I HPS	540	365	180	0	2.30	96	2.29	0.01
Chamera II HPS	300	303	124	0	1.29	54	1.23	0.06
Chamera III HPS	231	231	65	0	0.70	29	0.74	-0.04
Bairasuil HPS	180	182	70	0	0.48	20	0.62	-0.14
Salai-HPS	690	133	133	36	2.85	119	3.19	-0.33
Tanakpur-HPS	94	32	32	25	0.75	31	0.77	-0.03
Uri-HPS	480	129	219	38	3.23	135	2.84	0.39
Dhauliganga-HPS	280	280	120	0	0.92	38	0.87	0.05
Dulhasi-HPS	390	388	260	0	2.82	117	2.86	-0.04
Sewa-II HPS	120	80	52	0	0.29	12	0.29	0.01
Sub Total (C)	3305	2122	1255	99	15.62	651	15.70	-0.07
D.NJPC								
Nathpa Jhakri	1500	1605	971	0	6.73	280	7.00	-0.27
Sub Total (D)	1500	1605	971	0	6.73	280	7.00	-0.27
E. THDC								
Tehri HPS	1000	1050	1044	0	10.36	432	10.50	-0.14
Koteswar HPS	400	400	398	70	3.59	149	3.60	-0.01
Sub Total (E)	1400	1450	1442	70	13.94	581	14.10	-0.16
F. BBMB								
Bhakra HPS	1480	645	1106	387	15.78	658	15.49	0.29
Dehar HPS	990	114	405	0	2.77	115	2.73	0.04
Pong HPS	396	175	306	0	4.34	181	5.01	-0.67
Sub Total (F)	2866	934	1817	387	22.89	954	23.23	-0.34
G. IPP(s)/JV(s)								
ADHPL HPS(IPP)	192	0	0	0	0.46	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	21	0	0.17	7	0.15	0.02
Shree Cement TPS	300	0	285	271	6.59	275	6.79	-0.20
Budhil HPS(IPP)	70	0	4	0	0.03	1	0.16	-0.13
Sub Total (G)	1662	0	310	271	7.25	302	7.63	-0.38
H. Total Regional Entities (A-G)	22836	16260	14913	9425	270.98	11291	274.29	-3.31

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	975	900	25.86	1077	
	Guru Nanak Dev TPS(Bhatinda)	440	295	290	7.52	313	
	Guru Hargobind Singh TPS(L.mbt)	920	874	725	21.05	877	
	Thermal (Total)	2620	2144	1915	54.43	2268	
	Total Hydro	1148	436	367	9.40	392	
	Total Punjab	3768	2580	2282	63.83	2660	
Haryana	Panipat TPS	1367	926	863	22.13	922	
	DCRTPP (Yamuna nagar)	600	282	272	6.67	278	
	Faridabad GPS (NTPC)	432	434	285	7.89	329	
	RGTPP (kheadar) (IPP)	1200	1026	782	23.42	976	
	Magnum Diesel (IPP)	25	0	0	0.00	0	
	Jhajjar(CLP)	1320	350	338	9.00	375	
	Thermal (Total)	4944	196	2540	69.11	2879	
	Total Hydro	62	24	24	0.57	24	
	Total Haryana	5006	220	2564	69.68	2903	
Rajasthan	kota TPS	1240	1076	1077	26.29	1096	
	suratgarh TPS	1500	1137	1132	28.19	1175	
	Chabra TPS	500	402	416	9.43	393	
	Dholpur GPS	330	139	122	3.05	127	
	Ramgarh GPS	111	83	85	2.06	86	
	RAPS A (NPC)	300	181	181	4.23	176	
	Barsingar (NLC)	250	108	108	2.67	111	
	Giral LTPS	250	87	116	1.90	79	
	Rajwest LTPS (IPP)	540	473	482	11.03	460	
	VSLP LTPS (IPP)	135	0	0	0.00	0	
	Thermal (Total)	5156	3686	3719	88.86	3703	
	Total Hydro	550	131	110	4.77	199	
	Wind power	2191	365	751	10.23	426	
	Biomass	91	14	14	0.33	14	
	Solar	201	1	0	0.04	2	
	Renewable/Others (Total)	2483	379	765	10.59	441	
	Total Rajasthan	8189	4196	4594	104.23	4343	
	UP	Anpara TPS	1630	1240	1200	29.10	1213
		Obra TPS	1382	496	446	11.30	471
Paricha TPS		890	597	563	13.90	579	
Panki TPS		210	59	50	1.40	58	
Harduaganj TPS		665	124	63	3.50	146	
Tanda TPS (NTPC)		440	396	398	9.58	399	
Roza TPS (IPP)		1200	1105	1004	23.87	995	
Anpara-C (IPP)		1200	658	653	16.66	694	
Bajaj Energy Pvt.Ltd(IPP) TPS		450	323	403	9.43	393	
Thermal (Total)		8067	4998	4780	118.73	4947	
Vishnuparyag HPS (IPP)		400	0	0	0.00	0	
Other Hydro		527	224	189	4.64	193	
Cogeneration		981	700	700	16.80	700	
Total UP		9975	5922	5669	140.17	5840	
Uttarakhand		Total Hydro	1303	450	269	7.37	307
	Total Uttarakhand	1303	450	269	7.37	307	
Delhi	Raighat TPS	135	106	107	2.52	105	
	Delhi Gas Turbine	282	156	141	3.80	158	
	Pragati Gas Turbine	330	316	296	7.51	313	
	Rithala GPS	108	0	0	0.00	0	
	Bawana GPS	677	218	217	5.13	214	
	Badarpur TPS (NTPC)	705	575	595	14.07	586	
	Thermal (Total)	2237	1371	1356	33.03	1376	
	Total Delhi	2237	1371	1356	33.03	1376	
HP	Baspa HPS (IPP)	330	40	0	1.03	43	
	Malana HPS (IPP)	86	40	0	0.19	8	
	Other Hydro	589	167	96	2.90	121	
	Total HP	1005	247	96	4	172	
J & K	Baglihar HPS (IPP)	450	204	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	204	148	3.68	154	
Total State Control Area Generation		32439	15190	16978	426.11	17755	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			2409	2489	63.58	2649	
Total Regional Availability(Gross)		55275	32512	28892	760.68	31695	

IV. Total Hydro Generation:

Regional Entities Hydro	10364	5506	556	59.82	2492
State Control Area Hydro	5368	1716	1203	34.56	1440
Total Regional Hydro	15731	7222	1759	94.38	3932

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	-300	0	0	300	0.00	7.65	-7.65
Gwalior-Agra (D/C)	388	429	685	0	11.18	0.00	11.18
Zerda-Kankroli	15	29	179	78	1.29	0.00	1.29
Zerda-Bhinmal	87	75	255	41	2.74	0.00	2.74
Malanpur-Auraiya	-116	-109	0	174	0.00	2.50	-2.50
Badod-Kota/Morak	6	-3	0	78	0.00	0.14	-0.14
Mundra-Mohindergarh(HVDC)	599	572	600	0	14.45	0.00	14.45
Sub Total WR	679	993			29.66	10.29	19.37
Pusauli Bypass	200	100	200	0	3.43	0.00	3.43
MZP- GKP (D/C)	362	340	680	0	10.31	0.00	10.31
Patna-Balia(D/C)	781	676	973	0	20.48	0.00	20.48
B'Sharif-Balia (D/C)	217	211	418	0	6.13	0.00	6.13
Barh - Balia(D/C)	0	0	0	0	0.00	0.00	0.00
Pusauli-Balia	-129	-53	11	129	0.00	0.66	-0.66
Gaya-Fatehpur (765 Kv)	199	172	205	0	2.57	0.00	2.57
Pusauli-Sahupuri	137	82	142	0	2.99	0.00	2.99
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	1730	1496			45.91	1.70	44.21
Total IR Exch	2409	2489			75.57	11.99	63.58

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
42.04	0.15	42.19	5.22	-19.42	0.00	18.34	-3.46	3.47
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
43.94	14.09	58.04	44.21	19.37	63.58	0.27	5.28	5.55

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	2.67	82.99	80.32	73.47	17.01
<----- Frequency (Hz) ----->				Average Frequency	Frequency Variation Index	Std. Dev.	Frequency in 15 Min Block	
Maximum		Minimum					MAX (Hz)	MIN (Hz)
50.67	3.07	49.57	8.41	50.13	0.47	0.16	50.63	49.78

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	409	3:07	397	10:12	0.0	0.0	0.0	0.0
Gorakhpur	400	427	5:09	416	22:14	0.0	0.0	51.9	0.0
Bareilly	400	421	3:09	400	8:36	0.0	0.0	0.1	0.0
Kanpur	400	419	3:06	397	8:39	0.0	0.0	0.0	0.0
Dadri	400	418	3:06	402	8:39	0.0	0.0	0.0	0.0
Ballabhgarh	400	426	3:06	407	8:38	0.0	0.0	20.0	0.0
Bawana	400	423	3:06	406	10:32	0.0	0.0	7.8	0.0
Bassi	400	430	3:11	398	8:38	0.0	0.0	18.3	0.0
Hissar	400	411	3:05	394	8:38	0.0	0.0	0.0	0.0
Moga	400	417	23:59	400	11:51	0.0	0.0	0.0	0.0
Abdullapur	400	422	3:07	407	10:35	0.0	0.0	1.2	0.0
Nalagarh	400	421	3:07	407	10:27	0.0	0.0	0.3	0.0
Kishenpur	400	419	14:57	387	18:47	0.0	1.1	0.0	0.0
Wagoora	400	409	14:53	366	18:46	14.7	52.5	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	495.18	914.64	502.38	1192.70	144.25	427.24
Pong	426.72	384.05	410.96	524.54	413.87	633.85	68.33	276.80
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 30.12.2012 :

1. Scattered rain & snow in J&K,HP , Ultranchal / 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. 125MVAR Bus reactor at Mainpuri (Powergrid) first time charged at 23.02 Hrs/30.12.2012.

XIV. Tripping of lines in pooling stations :

XV. Complete generation loss in a generating station :

Report for : 30.12.2012

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER