

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरसिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 20.12.2012
Date of Reporting : 21.12.2012

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
33607	3620	37227	50.10	26960	680	27640	50.26	720.8	71.36

* 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	50.22	10.04		60.26	34.84	33.90	-0.94	94.16	3.61
Haryana	59.40	0.62		60.02	38.60	40.46	1.86	100.48	11.50
Rajasthan	86.67	5.15	1.49	93.30	69.76	73.85	4.08	167.14	4.73
Delhi	24.07			24.07	33.81	33.32	-0.49	57.39	1.01
UP	117.55	4.96	14.40	136.91	69.18	68.93	-0.25	205.84	47.54
Uttarakhand		8.71		8.71	19.51	21.34	1.83	30.05	1.26
HP		4.73		4.73	19.12	19.64	0.52	24.36	0.02
J & K		6.73	0.00	6.73	28.72	31.26	2.54	37.99	1.70
Chandigarh				0.00	3.52	3.42	-0.10	3.42	0.00
Total	337.91	40.93	15.89	394.73	317.04	326.10	9.06	720.83	71.36

* 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	4800	600	-82	-215	3364	0	42	87	-5.09	
Haryana	4882	725	60	46	3834	0	11	-38	-0.88	
Rajasthan	7356	450	238	429	6711	165	159	511	27.27	
Delhi	3164	0	165	-1278	1250	0	-80	-2103	-37.66	
UP	8702	1665	-460	-121	8329	515	317	-105	-6.90	
Uttarakhand	1538	80	75	431	1008	0	27	429	9.53	
HP	1206	0	59	252	751	0	13	337	6.80	
J&K	1774	100	-51	393	1628	0	156	496	9.33	
Chandigarh	185	0	-9	0	84	0	-6	-30	-0.29	
Total	33607	3620	-5	-63	26960	680	640	-416	2.11	

* 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	1947	2093	2009	46.88	1953	46.72	0.16
Rihand I STPS	1000	915	990	978	22.03	918	21.96	0.07
Rihand II STPS	1000	975	1041	1034	23.45	977	23.40	0.05
Rihand III STPS	500	319	406	366	7.54	314	7.67	-0.12
Dadri I STPS	840	810	850	645	18.22	759	18.67	-0.45
Dadri II STPS	980	891	840	823	19.98	832	20.68	-0.70
Unchahar I TPS	420	407	423	391	9.45	394	9.46	0.00
Unchahar II TPS	420	397	415	373	9.11	380	9.06	0.05
Unchahar III TPS	210	0	0	0	0.00	0	0.00	0.00
ISTPP (Jhajihar)	1500	960	847	741	17.95	748	20.40	-2.45
Dadri GPS	830	845	339	359	8.94	373	9.36	-0.42
Anta GPS	419	423	202	184	5.26	219	5.05	0.21
Auraiya GPS	663	667	250	253	6.75	281	6.68	0.08
Sub Total (A)	10782	9555	8696	8156	195.57	8149	199.09	-3.52
B. NPC								
NAPS	440	132	164	153	3.33	139	3.17	0.16
RAPS- B	440	208	234	234	5.02	209	4.99	0.03
RAPS- C	440	440	477	477	10.25	427	10.56	-0.31
Sub Total (B)	1320	780	875	864	18.60	775	18.72	-0.12
C. NHPC								
Chamera I HPS	540	550	180	0	2.10	87	1.97	0.13
Chamera II HPS	300	303	101	0	1.27	53	1.23	0.04
Chamera III HPS	231	231	55	0	0.72	30	0.75	-0.03
Bairasuil HPS	180	182	20	0	0.59	25	0.56	0.03
Salai-HPS	690	116	226	38	2.90	121	3.00	-0.10
Tanakpur-HPS	94	27	30	15	0.66	27	0.66	-0.01
Uri-HPS	480	130	220	45	3.21	134	3.13	0.08
Dhauliganga-HPS	280	210	140	0	1.05	44	1.01	0.04
Dulhasi-HPS	390	388	270	0	2.91	121	2.85	0.05
Sewa-II HPS	120	80	83	0	0.44	18	0.41	0.03
Sub Total (C)	3305	2217	1325	98	15.82	659	15.57	0.25
D.NJPC								
Nathpa Jhakri	1500	1605	1010	0	9.10	379	8.60	0.50
Sub Total (D)	1500	1605	1010	0	9.10	379	8.60	0.50
E. THDC								
Tehri HPS	1000	875	690	0	9.12	380	9.00	0.12
Koteshwar HPS	400	200	203	0	3.15	131	3.10	0.05
Sub Total (E)	1400	1075	893	0	12.27	511	12.10	0.17
F. BBMB								
Bhakra HPS	1480	558	1126	414	14.19	591	13.39	0.80
Dehar HPS	990	146	495	0	3.82	159	3.50	0.32
Pong HPS	396	288	366	120	7.01	292	5.01	2.00
Sub Total (F)	2866	991	1987	534	25.02	1043	21.90	3.12
G. IPP(s)/JV(s)								
ADHPL HPS(IPP)	192	0	0	0	0.51	21	0.52	-0.01
KWHEP HPS(IPP)	1000	0	140	0	4.48	187	4.34	0.14
Malana Stg-II HPS	100	0	25	0	0.21	9	0.17	0.04
Shree Cement TPS	300	0	146	121	3.30	138	3.36	-0.06
Budhil HPS(IPP)	70	0	0	0	0.00	0	0.00	0.00
Sub Total (G)	1662	0	311	121	8.50	354	8.39	0.11
H. Total Regional Entities (A-G)	22836	16223	15097	9773	284.88	11870	284.37	0.51

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	1163	930	23.55	981	
	Guru Nanak Dev TPS(Bhatinda)	440	295	290	6.89	287	
	Guru Hargobind Singh TPS(L.mbt)	920	954	829	19.79	825	
	Thermal (Total)	2620	2412	2049	50.22	2093	
	Total Hydro	1148	423	408	10.04	418	
	Total Punjab	3768	2835	2457	60.26	2511	
Haryana	Panipat TPS	1367	928	955	22.02	917	
	DCRTPP (Yamuna nagar)	600	280	281	6.65	277	
	Faridabad GPS (NTPC)	432	422	159	8.31	346	
	RGTPP (kheadar) (IPP)	1200	418	595	11.71	488	
	Magnum Diesel (IPP)	25	0	0	0.00	0	
	Jhajjar(CLP)	1320	616	371	10.72	447	
	Thermal (Total)	4944	196	2361	59.40	2475	
	Total Hydro	62	27	24	0.62	26	
	Total Haryana	5006	223	2385	60.02	2501	
Rajasthan	kota TPS	1240	973	1173	24.47	1020	
	suratgarh TPS	1500	1316	1094	28.89	1204	
	Chabra TPS	500	419	451	10.11	421	
	Dholpur GPS	330	144	143	3.34	139	
	Ramgarh GPS	111	38	38	1.07	45	
	RAPS A (NPC)	300	197	197	4.44	185	
	Barsingar (NLC)	250	213	216	5.02	209	
	Giral LTPS	250	0	0	0.00	0	
	Rajwest LTPS (IPP)	540	360	284	9.32	388	
	VSLP LTPS (IPP)	135	0	0	0.00	0	
	Thermal (Total)	5156	3660	3596	86.67	3611	
	Total Hydro	550	224	203	5.15	214	
	Wind power	2191	2	135	0.88	36	
	Biomass	91	20	20	0.49	20	
	Solar	201	3	0	0.13	5	
	Renewable/Others (Total)	2483	22	155	1.49	62	
	Total Rajasthan	8189	3906	3954	93.30	3887	
	UP	Anpara TPS	1630	1402	1344	29.80	1242
		Obra TPS	1382	506	506	10.90	454
		Paricha TPS	890	680	665	14.40	600
Panki TPS		210	50	70	1.20	50	
Harduaganj TPS		665	185	247	5.10	213	
Tanda TPS (NTPC)		440	294	299	7.32	305	
Roza TPS (IPP)		1200	882	869	24.29	1012	
Anpara-C (IPP)		1200	893	463	15.25	635	
Bajaj Energy Pvt.Ltd(IPP) TPS		450	405	404	9.29	387	
Thermal (Total)		8067	5297	4867	117.55	4898	
Vishnuparyag HPS (IPP)		400	0	0	0.00	0	
Other Hydro		527	139	226	4.96	207	
Cogeneration		981	600	600	14.40	600	
Total UP		9975	6036	5693	136.91	5705	
Uttarakhand		Total Hydro	1303	481	284	8.71	363
	Total Uttarakhand	1303	481	284	8.71	363	
Delhi	Raighat TPS	135	86	99	2.00	83	
	Delhi Gas Turbine	282	160	158	3.87	161	
	Pragati Gas Turbine	330	320	330	7.78	324	
	Rithala GPS	108	0	0	0.00	0	
	Bawana GPS	677	221	217	5.23	218	
	Badarpur TPS (NTPC)	705	280	165	5.19	216	
	Thermal (Total)	2237	1067	969	24.07	1003	
	Total Delhi	2237	1067	969	24.07	1003	
HP	Baspa HPS (IPP)	330	32	0	1.15	48	
	Malana HPS (IPP)	86	40	0	0.21	9	
	Other Hydro	589	174	112	3.36	140	
	Total HP	1005	246	112	5	197	
J & K	Baglihar HPS (IPP)	450	146	146	3.55	148	
	Other Hydro	323	120	175	3.18	133	
	Gas/Diesel/Others	183	0	0	0.00	0	
	Total J & K	956	266	321	6.73	280	
Total State Control Area Generation		32439	15060	16175	394.73	16447	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			1636	2032	33.58	1399	
Total Regional Availability(Gross)		55275	31793	27980	713.19	29716	

IV. Total Hydro Generation:

Regional Entities Hydro	10364	5380	632	67.41	2809
State Control Area Hydro	5368	1806	1578	40.93	1705
Total Regional Hydro	15731	7186	2210	108.34	4514

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	-500	-150	150	500	0.00	9.14		-9.14	
Gwalior-Agra (D/C)	94	75	511	225	2.26	0.00		2.26	
Zerda-Kankroli	-39	-66	45	222	0.00	0.94		-0.94	
Zerda-Bhinmal	72	49	250	146	1.60	0.00		1.60	
Malanpur-Auraiya	-182	-182	0	247	0.00	4.47		-4.47	
Badod-Kota/Morak	-124	-94	32	124	0.00	1.56		-1.56	
Mundra-Mohindergarh(HVDC)	619	670	868	0	12.26	0.00		12.26	
Sub Total WR	-60	302			16.12	16.11		0.01	
Pusauli Bypass	-93	-110	35	140	0.07	1.30		-1.23	
MZP- GKP (D/C)	450	548	620	0	12.47	0.00		12.47	
Patna-Balia(D/C)	783	716	869	0	7.99	0.00		7.99	
B'Sharif-Balia (D/C)	260	233	353	0	6.41	0.00		6.41	
Barh - Balia(D/C)	0	0	0	0	0.00	0.00		0.00	
Pusauli-Balia	8	5	37	0	0.25	0.00		0.25	
Gaya-Fatehpur (765 Kv)	192	237	283	0	5.67	0.00		5.67	
Pusauli-Sahupuri	133	133	156	0	3.05	0.00		3.05	
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	1696	1730			35.91	2.34		33.57	
Total IR Exch	1636	2032			52.03	18.45		33.58	

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
42.12	0.32	42.44	7.61	-20.66	-0.03	9.02	-2.52	2.69
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
47.50	0.93	48.43	33.57	0.01	33.58	-13.93	-0.92	-14.85

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	1.00	8.20	93.50	86.30	40.70	5.50
<----- Frequency (Hz) ----->				Average Frequency	Frequency Variation Index	Std. Dev.	Frequency in 15 Min Block	
Maximum		Minimum					MAX (Hz)	MIN (Hz)
50.46	4.06	49.36	10.14	49.95	0.32	0.17	50.42	49.64

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	0:00	399	15:25	0.0	0.0	0.0	0.0
Gorakhpur	400	428	0:36	423	0:57	0.0	0.0	100.0	0.0
Bareilly	400	423	4:08	401	8:28	0.0	0.0	0.9	0.0
Kanpur	400	419	4:04	396	10:06	0.0	0.0	0.0	0.0
Dadri	400	421	4:01	401	15:02	0.0	0.0	0.7	0.0
Ballabhgarh	400	427	4:04	403	10:14	0.0	0.0	28.5	0.0
Bawana	400	425	4:03	405	10:05	0.0	0.0	31.9	0.0
Bassi	400	432	4:03	397	10:13	0.0	0.0	22.7	0.7
Hissar	400	415	20:57	394	9:52	0.0	0.0	0.0	0.0
Moga	400	419	20:59	395	15:04	0.0	0.0	0.0	0.0
Abdullapur	400	424	22:39	407	12:02	0.0	0.0	22.2	0.0
Nalagarh	400	421	22:34	401	10:03	0.0	0.0	0.1	0.0
Kishenpur	400	412	0:00	388	15:51	0.0	0.2	0.0	0.0
Wagoora	400	395	16:37	362	15:51	57.2	80.3	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	497.24	983.40	504.38	1285.56	200.99	337.93
Pong	426.72	384.05	412.59	588.94	415.06	680.86	76.48	403.20
Tehri	829.79	740.04	816.70	935.00	818.65	982.26	49.24	170.00
Koteshwar	612.50	598.50	610.20	4.69	NA	NA	170.00	183.00
Chamera-I	760.00	748.75	NA	NA	NA	NA	50.72	49.04
Rihand	268.22	252.98	262.22	500.10	263.90	617.70	NA	NA
RPS	352.80	343.81	348.68	NA	NA	NA	NA	NA
Jawahar Sagar	298.70	295.78	298.34	NA	NA	NA	NA	NA
RSD	527.91	487.91	518.44	NA	514.04	NA	87.87	179.08

* NA: Not Available

IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

XI. Weather Conditions For 20.12.2012 :

1. Normal weather.

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 : 20.12.2012

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER