

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरसिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 17.12.2012

Date of Reporting : 18.12.2012

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
32492	2574	35066	50.19	25490	185	25675	0.00	701.6	45.54

* 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	46.24	9.40		55.64	30.65	30.70	0.05	86.34	2.06
Haryana	56.42	0.59		57.02	35.05	38.31	3.26	95.33	4.32
Rajasthan	88.31	5.23	16.43	109.96	64.43	62.41	-2.02	172.37	0.00
Delhi	26.22			26.22	33.85	30.01	-3.84	56.23	0.00
UP	103.27	3.72	14.40	121.39	74.40	75.38	0.98	196.77	37.04
Uttarakhand		9.00		9.00	18.91	20.96	2.06	29.96	0.20
HP		5.11		5.11	18.14	18.09	-0.04	23.20	0.22
J & K		7.45	0.00	7.45	28.97	30.39	1.42	37.84	1.70
Chandigarh				0.00	3.53	3.51	-0.01	3.51	0.00
Total	320.46	40.51	30.83	391.79	307.92	309.77	1.85	701.57	45.54

* 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	4578	600	30	-299	2809	0	-56	32	-6.15	
Haryana	4434	64	-14	-77	3574	0	-81	-53	-3.75	
Rajasthan	7387	0	-183	691	6295	0	-512	459	28.55	
Delhi	2963	0	-269	-1049	1271	0	-159	-2019	-35.44	
UP	8453	1810	104	270	8191	185	353	-105	-6.51	
Uttarakhand	1534	0	67	431	1008	0	74	428	9.07	
HP	1183	0	-119	252	717	0	9	337	6.64	
J&K	1772	100	-211	377	1534	0	33	496	9.24	
Chandigarh	188	0	-31	0	91	0	-7	-30	-0.29	
Total	32492	2574	-626	596	25490	185	-346	-455	1.36	

* 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	2088	1782	45.69	1904	45.60	0.09
Rihand I STPS	1000	950	1026	734	21.62	901	21.65	-0.03
Rihand II STPS	1000	975	1036	813	22.28	928	22.58	-0.30
Rihand III STPS	500	340	350	360	7.97	332	7.88	0.09
Dadri I STPS	840	810	847	630	17.97	749	18.45	-0.48
Dadri II STPS	980	932	878	733	18.54	772	21.09	-2.56
Unchahar I TPS	420	407	428	348	9.07	378	9.39	-0.32
Unchahar II TPS	420	400	429	340	8.75	364	9.37	-0.62
Unchahar III TPS	210	55	0	176	0.91	38	1.28	-0.38
ISTPP (Jhajhar)	1500	940	338	316	16.42	684	17.15	-0.73
Dadri GPS	830	844	341	329	8.18	341	8.37	-0.19
Anta GPS	419	346	195	171	4.52	188	4.58	-0.06
Auraiya GPS	663	666	240	249	6.24	260	6.13	0.11
Sub Total (A)	10782	9612	8196	6981	188.14	7839	193.53	-5.39
B. NPC								
NAPS	440	284	323	325	6.60	275	6.82	-0.22
RAPS- B	440	208	228	235	4.91	205	4.99	-0.08
RAPS- C	440	435	474	473	10.13	422	10.44	-0.31
Sub Total (B)	1320	927	1025	1033	21.64	902	22.25	-0.61
C. NHPC								
Chamera I HPS	540	550	540	0	1.98	83	2.24	-0.26
Chamera II HPS	300	303	299	0	1.45	60	1.55	-0.10
Chamera III HPS	231	231	0	0	0.78	33	0.73	0.05
Bairasuil HPS	180	182	20	10	0.59	25	0.69	-0.10
Salai-HPS	690	124	220	95	3.15	131	3.17	-0.02
Tanakpur-HPS	94	33	26	24	0.81	34	0.79	0.02
Uri-HPS	480	104	236	47	3.14	131	2.99	0.15
Dhauliganga-HPS	280	140	131	0	1.25	52	1.27	-0.02
Dulhasi-HPS	390	388	284	0	3.05	127	3.08	-0.02
Sewa-II HPS	120	96	75	0	0.52	22	0.51	0.00
Sub Total (C)	3305	2150	1831	176	16.72	697	18.02	-0.30
D.NJPC								
Nathpa Jhakri	1500	1605	1266	0	7.87	328	7.71	0.16
Sub Total (D)	1500	1605	1266	0	7.87	328	7.71	0.16
E. THDC								
Tehri HPS	1000	1050	1101	0	6.61	275	6.50	0.11
Koteswar HPS	400	100	101	85	2.35	98	2.40	-0.05
Sub Total (E)	1400	1150	1202	85	8.96	373	8.90	0.06
F. BBMB								
Bhakra HPS	1480	506	1035	229	12.21	509	12.14	0.07
Dehar HPS	990	153	495	0	3.78	158	3.67	0.11
Pong HPS	396	228	306	0	5.55	231	5.01	0.54
Sub Total (F)	2866	887	1836	229	21.54	898	20.81	0.73
G. IPP(s)/JV(s)								
ADHPL HPS(IPP)	192	0	0	0	0.49	20	0.52	-0.03
KWHEP HPS(IPP)	1000	0	140	0	4.22	176	4.20	0.02
Malana Stg-II HPS	100	0	24	0	0.20	8	0.17	0.03
Shree Cement TPS	300	0	147	111	2.98	124	3.06	-0.07
Budhil HPS(IPP)	70	0	0	0	0.00	0	0.15	-0.15
Sub Total (G)	1662	0	311	111	7.89	329	8.10	-0.21
H. Total Regional Entities (A-G)	22836	16331	15667	8615	272.76	11365	278.32	-5.56

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	1182	1010	25.86	1077	
	Guru Nanak Dev TPS(Bhatinda)	440	0	95	0.95	40	
	Guru Hargobind Singh TPS(L.mbt)	920	964	682	19.42	809	
	Thermal (Total)	2620	2146	1787	46.24	1926	
	Total Hydro	1148	414	367	9.40	392	
	Total Punjab	3768	2560	2154	55.64	2318	
Haryana	Panipat TPS	1367	1188	1030	27.31	1138	
	DCRTPP (Yamuna nagar)	600	0	0	0.00	0	
	Faridabad GPS (NTPC)	432	179	157	4.20	175	
	RGTPP (khedar) (IPP)	1200	399	522	10.04	418	
	Magnum Diesel (IPP)	25	0	0	0.00	0	
	Jhajjar(CLP)	1320	616	614	14.87	620	
	Thermal (Total)	4944	2382	2323	56.42	2351	
	Total Hydro	62	27	22	0.59	25	
	Total Haryana	5006	2409	2345	57.02	2376	
Rajasthan	kota TPS	1240	1176	1035	26.78	1116	
	suratgarh TPS	1500	1061	1108	24.48	1020	
	Chabra TPS	500	434	395	9.50	396	
	Dholpur GPS	330	142	138	3.38	141	
	Ramgarh GPS	111	38	40	1.06	44	
	RAPS A (NPC)	300	197	197	7.37	307	
	Barsingar (NLC)	250	106	103	2.42	101	
	Giral LTPS	250	36	0	1.95	81	
	Rajwest LTPS (IPP)	540	486	482	11.36	473	
	VSLP LTPS (IPP)	135	0	0	0.00	0	
	Thermal (Total)	5156	3676	3498	88.31	3679	
	Total Hydro	550	227	159	5.23	218	
	Wind power	2191	307	954	15.83	660	
	Biomass	91	21	21	0.49	21	
	Solar	201	2	0	0.10	4	
	Renewable/Others (Total)	2483	328	975	16.43	684	
	Total Rajasthan	8189	4231	4632	109.96	4582	
	UP	Anpara TPS	1630	1497	1334	31.80	1325
		Obra TPS	1382	363	350	7.90	329
		Paricha TPS	890	631	627	13.60	567
Panki TPS		210	65	65	1.20	50	
Harduaganj TPS		665	88	227	3.90	163	
Tanda TPS (NTPC)		440	294	250	7.08	295	
Roza TPS (IPP)		1200	837	828	20.65	860	
Anpara-C (IPP)		1200	464	324	8.97	374	
Bajaj Energy Pvt.Ltd(IPP) TPS		450	294	368	8.17	340	
Thermal (Total)		8067	4533	4373	103.27	4303	
Vishnuparyag HPS (IPP)		400	0	0	0.00	0	
Other Hydro		527	152	173	3.72	155	
Cogeneration		981	600	600	14.40	600	
Total UP		9975	5285	5146	121.39	5058	
Uttarakhand		Total Hydro	1303	433	277	9.00	375
	Total Uttarakhand	1303	433	277	9.00	375	
Delhi	Raighat TPS	135	105	103	2.78	116	
	Delhi Gas Turbine	282	86	82	2.02	84	
	Pragati Gas Turbine	330	313	325	7.82	326	
	Rithala GPS	108	21	0	0.28	12	
	Bawana GPS	677	215	207	5.19	216	
	Badarpur TPS (NTPC)	705	385	320	8.13	339	
	Thermal (Total)	2237	1125	1037	26.22	1093	
	Total Delhi	2237	1125	1037	26.22	1093	
HP	Baspa HPS (IPP)	330	59	0	1.24	52	
	Malana HPS (IPP)	86	38	0	0.24	10	
	Other Hydro	589	151	150	3.63	151	
	Total HP	1005	248	150	5	213	
J & K	Baglihar HPS (IPP)	450	146	136	4.27	178	
	Other Hydro	323	120	175	3.18	133	
	Gas/Diesel/Others	183	0	0	0.00	0	
	Total J & K	956	266	311	7.45	310	
Total State Control Area Generation		32439	16557	16052	391.79	16325	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			2234	1748	55.33	2306	
Total Regional Availability(Gross)		55275	34458	26415	719.89	29995	

IV. Total Hydro Generation:

Regional Entities Hydro	10364	6299	490	60.00	2500
State Control Area Hydro	5368	1767	1459	40.51	1688
Total Regional Hydro	15731	8066	1949	100.51	4188

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	-350	-400	0	500	0.00	9.65	-9.65
Gwalior-Agra (D/C)	240	270	689	0	7.44	0.00	7.44
Zerda-Kankroli	-25	-113	96	240	0.00	1.38	-1.38
Zerda-Bhinmal	58	-69	207	218	0.36	0.00	0.36
Malanpur-Auraiya	-172	-119	0	172	0.00	2.98	-2.98
Badod-Kota/Morak	-109	-147	40	197	0.00	2.68	-2.68
Mundra-Mohindergarh(HVDC)	812	641	904	0	19.30	0.00	19.30
Sub Total WR	454	63			27.10	16.69	10.41
Pusauli Bypass	50	50	50	0	1.28	0.00	1.28
MZP- GKP (D/C)	462	480	638	0	12.01	0.00	12.01
Patna-Balia(D/C)	825	748	1011	0	19.58	0.00	19.58
B'Sharif-Balia (D/C)	189	249	317	0	5.90	0.00	5.90
Barh - Balia(D/C)	0	0	0	0	0.00	0.00	0.00
Pusauli-Balia	-45	-62	0	96	0.00	1.34	-1.34
Gaya-Fatehpur (765 Kv)	210	125	304	0	5.13	0.00	5.13
Pusauli-Sahupuri	126	127	151	0	3.21	0.00	3.21
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-37	-32	0	48	0.00	0.85	-0.85
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sub Total ER	1780	1685			47.11	2.19	44.92
Total IR Exch	2234	1748			74.21	18.88	55.33

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
39.73	0.27	40.00	9.69	-22.14	-0.03	7.92	-3.60	3.84
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
46.06	0.54	46.61	44.92	10.41	55.33	-1.14	9.87	8.73

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	0.90	72.20	71.30	63.20	27.80
<----- Frequency (Hz) ----->				Average Frequency	Frequency Variation Index	Std. Dev.	Frequency in 15 Min Block	
Maximum		Minimum					MAX (Hz)	MIN (Hz)
50.63	0.02	49.59	6.40	50.08	0.41	0.19	50.31	0.00

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	18:49	0	16:13	1.1	1.1	0.0	0.0
Gorakhpur	400	427	16:28	410	11:20	0.0	0.0	26.7	0.0
Bareilly	400	423	23:50	406	9:34	0.0	0.0	4.8	0.0
Kanpur	400	414	23:31	397	9:51	0.0	0.0	0.0	0.0
Dadri	400	420	23:52	404	9:51	0.0	0.0	0.0	0.0
Ballabhgarh	400	423	23:46	405	9:51	0.0	0.0	5.8	0.0
Bawana	400	419	19:59	407	9:51	0.0	0.0	0.0	0.0
Bassi	400	424	20:55	0	10:17	25.7	25.7	6.1	0.0
Hissar	400	414	20:47	397	18:12	0.0	0.0	0.0	0.0
Moga	400	415	21:54	396	18:12	0.0	0.0	0.0	0.0
Abdullapur	400	0	0:00	9999	0:00	0.0	0.0	0.0	0.0
Nalagarh	400	423	23:06	323	18:58	0.2	0.2	4.4	0.0
Kishenpur	400	415	13:02	394	18:24	0.0	0.0	0.0	0.0
Wagoora	400	407	13:02	369	19:35	23.5	66.8	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	497.33	994.96	504.55	1285.56	178.91	334.05
Pong	426.72	384.05	413.73	588.94	415.16	680.86	80.53	346.00
Tehri	829.79	740.04	816.95	942.25	818.65	982.26	52.42	148.00
Koteshwar	612.50	598.50	610.40	4.69	NA	NA	148.00	158.00
Chamera-I	760.00	748.75	NA	NA	NA	NA	54.79	53.03
Rihand	268.22	252.98	NA	NA	263.93	617.70	NA	NA
RPS	352.80	343.81	348.77	NA	NA	NA	NA	NA
Jawahar Sagar	298.70	295.78	297.21	NA	NA	NA	NA	NA
RSD	527.91	487.91	518.58	NA	514.15	NA	56.61	132.47

* NA: Not Available

IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

XI. Weather Conditions For 17.12.2012 :

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 : 17.12.2012

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER