

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरसिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 18.12.2012

Date of Reporting : 19.12.2012

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
32889	3980	36868	50.14	25462	450	25912	50.14	699.2	54.87

* 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	46.13	10.49		56.62	33.56	33.11	-0.44	89.73	3.57
Haryana	55.59	0.63		56.22	34.68	36.29	1.61	92.51	6.08
Rajasthan	84.85	5.77	4.47	95.08	68.92	69.43	0.51	164.51	0.00
Delhi	25.01			25.01	34.88	32.27	-2.61	57.28	0.14
UP	111.98	3.43	14.40	129.81	69.70	69.98	0.27	199.78	43.38
Uttarakhand		9.14		9.14	19.17	21.20	2.03	30.34	0.00
HP		5.01		5.01	19.00	18.47	-0.52	23.48	0.00
J & K		7.45	0.00	7.45	29.01	30.62	1.62	38.07	1.70
Chandigarh				0.00	3.47	3.45	-0.02	3.45	0.00
Total	323.56	41.91	18.87	384.34	312.38	314.82	2.44	699.16	54.87

* 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	4598	600	51	-176	3018	0	-46	70	-4.81	
Haryana	4707	634	75	-75	3135	0	55	-175	-3.23	
Rajasthan	7234	0	174	618	6685	0	313	508	26.21	
Delhi	3049	0	-79	-1229	1309	0	-326	-1732	-33.21	
UP	8695	2646	89	-121	7961	450	52	-105	-6.90	
Uttarakhand	1496	0	21	431	1050	0	104	429	9.23	
HP	1161	0	-10	252	719	0	-12	367	6.81	
J&K	1764	100	-165	377	1503	0	8	496	9.25	
Chandigarh	185	0	-13	0	84	0	-11	-30	-0.28	
Total	32889	3980	144	76	25462	450	136	-173	3.05	

* 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	2097	2047	46.95	1956	46.67	0.28
Rihand I STPS	1000	950	1030	1020	22.83	951	22.80	0.03
Rihand II STPS	1000	975	1043	984	23.12	963	23.14	-0.02
Rihand III STPS	500	343	350	360	8.49	354	8.06	0.42
Dadri I STPS	840	810	824	660	17.61	734	17.91	-0.29
Dadri II STPS	980	948	988	723	20.15	840	20.96	-0.81
Unchahar I TPS	420	407	426	323	9.17	382	9.21	-0.04
Unchahar II TPS	420	400	442	324	8.97	374	8.99	-0.03
Unchahar III TPS	210	11	0	0	0.28	12	0.23	0.05
ISTPP (Jhajjar)	1500	953	349	311	16.49	687	16.24	0.25
Dadri GPS	830	846	354	330	8.41	350	8.54	-0.13
Anta GPS	419	415	219	299	4.84	201	4.63	0.20
Auraiya GPS	663	664	302	248	6.32	263	6.07	0.25
Sub Total (A)	10782	9669	8424	7629	193.61	8067	193.46	0.16
B. NPC								
NAPS	440	179	158	160	3.17	132	4.31	-1.14
RAPS- B	440	208	234	234	4.97	207	4.99	-0.02
RAPS- C	440	435	474	471	10.18	424	10.44	-0.26
Sub Total (B)	1320	822	866	865	18.31	763	19.74	-1.43
C. NHPC								
Chamera I HPS	540	550	180	0	1.84	77	1.78	0.06
Chamera II HPS	300	303	70	0	1.35	56	1.41	-0.06
Chamera III HPS	231	231	61	0	0.75	31	0.73	0.02
Bairasuil HPS	180	182	20	0	0.60	25	0.60	0.00
Salai-HPS	690	142	226	100	3.27	136	3.15	0.11
Tanakpur-HPS	94	32	35	24	0.77	32	0.78	-0.01
Uri-HPS	480	132	231	45	3.23	134	3.26	-0.03
Dhauliganga-HPS	280	140	129	0	1.24	52	1.27	-0.03
Dulhasti-HPS	390	388	360	0	2.86	119	2.87	-0.01
Sewa-II HPS	120	80	83	0	0.49	20	0.48	0.01
Sub Total (C)	3305	2179	1395	169	16.39	683	16.33	0.05
D. NJPC								
Nathpa Jhakri	1500	1605	818	0	9.10	379	9.28	-0.18
Sub Total (D)	1500	1605	818	0	9.10	379	9.28	-0.18
E. THDC								
Tehri HPS	1000	866	758	0	7.57	315	7.50	0.07
Koteshwar HPS	400	200	100	86	2.75	115	2.70	0.05
Sub Total (E)	1400	1066	858	86	10.32	430	10.20	0.12
F. BBMB								
Bhakra HPS	1480	501	1039	407	12.34	514	12.01	0.33
Dehar HPS	990	146	495	0	3.73	155	3.50	0.23
Pong HPS	396	260	306	0	6.50	271	5.01	1.49
Sub Total (F)	2866	906	1840	407	22.57	940	20.52	2.05
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	4.99	208	4.94	0.05
Malana Stg-II HPS	100	0	23	0	0.21	9	0.17	0.04
Shree Cement TPS	300	0	127	97	2.74	114	3.21	-0.47
Budhil HPS(IPP)	70	0	0	0	0.00	0	0.15	-0.15
Sub Total (G)	1662	0	290	97	8.44	352	8.98	-0.54
H. Total Regional Entities (A-G)	22836	16247	14491	9253	278.74	11614	278.51	0.23

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	1048	1060	25.72	1072	
	Guru Nanak Dev TPS(Bhatinda)	440	0	0	0.02	1	
	Guru Hargobind Singh TPS(L.mbt)	920	962	758	20.39	850	
	Thermal (Total)	2620	2010	1818	46.13	1922	
	Total Hydro	1148	391	365	10.49	437	
	Total Punjab	3768	2401	2183	56.62	2359	
Haryana	Panipat TPS	1367	921	1146	25.40	1058	
	DCRTPP (Yamuna nagar)	600	280	0	3.59	150	
	Faridabad GPS (NTPC)	432	176	169	3.96	165	
	RGTPP (kheadar) (IPP)	1200	485	438	12.22	509	
	Magnum Diesel (IPP)	25	0	0	0.00	0	
	Jhajjar(CLP)	1320	557	378	10.42	434	
	Thermal (Total)	4944	196	2131	55.59	2316	
	Total Hydro	62	26	30	0.63	26	
	Total Haryana	5006	222	2161	56.22	2342	
Rajasthan	kota TPS	1240	1169	1177	22.56	940	
	suratgarh TPS	1500	1134	1078	28.78	1199	
	Chabra TPS	500	400	389	9.55	398	
	Dholpur GPS	330	139	142	3.13	130	
	Ramgarh GPS	111	38	38	1.07	44	
	RAPS A (NPC)	300	197	197	4.40	183	
	Barsingar (NLC)	250	196	102	3.32	138	
	Giral LTPS	250	33	57	0.82	34	
	Rajwest LTPS (IPP)	540	482	486	11.23	468	
	VSLP LTPS (IPP)	135	0	0	0.00	0	
	Thermal (Total)	5156	3788	3666	84.85	3535	
	Total Hydro	550	262	201	5.77	240	
	Wind power	2191	132	232	3.71	155	
	Biomass	91	28	28	0.66	28	
	Solar	201	2	0	0.10	4	
	Renewable/Others (Total)	2483	160	260	4.47	186	
	Total Rajasthan	8189	4210	4127	95.08	3962	
	UP	Anpara TPS	1630	1491	1517	32.10	1338
		Obra TPS	1382	490	356	9.40	392
		Paricha TPS	890	621	618	13.60	567
Panki TPS		210	65	60	1.40	58	
Harduaganj TPS		665	280	276	5.90	246	
Tanda TPS (NTPC)		440	292	302	7.19	300	
Roza TPS (IPP)		1200	900	833	22.78	949	
Anpara-C (IPP)		1200	456	461	10.99	458	
Bajaj Energy Pvt.Ltd(IPP) TPS		450	365	364	8.62	359	
Thermal (Total)		8067	4960	4787	111.98	4666	
Vishnuparyag HPS (IPP)		400	0	0	0.00	0	
Other Hydro		527	125	152	3.43	143	
Cogeneration		981	600	600	14.40	600	
Total UP		9975	5685	5539	129.81	5409	
Uttarakhand		Total Hydro	1303	502	280	9.14	381
		Total Uttarakhand	1303	502	280	9.14	381
Delhi	Raighat TPS	135	105	102	2.74	114	
	Delhi Gas Turbine	282	85	84	2.02	84	
	Pragati Gas Turbine	330	315	275	7.71	321	
	Rithala GPS	108	21	0	0.51	21	
	Bawana GPS	677	261	220	4.08	170	
	Badarpur TPS (NTPC)	705	385	325	7.95	331	
	Thermal (Total)	2237	1172	1006	25.01	1042	
	Total Delhi	2237	1172	1006	25.01	1042	
HP	Baspa HPS (IPP)	330	29	0	1.24	52	
	Malana HPS (IPP)	86	39	0	0.25	11	
	Other Hydro	589	187	115	3.52	147	
	Total HP	1005	255	115	5	209	
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	14713	15722	384.34	16014	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			1708	1775	58.78	2449	
Total Regional Availability(Gross)		55275	30912	26750	721.86	30077	

IV. Total Hydro Generation:

Regional Entities Hydro	10364	5074	662	64.07	2670
State Control Area Hydro	5368	1827	1454	41.91	1746
Total Regional Hydro	15731	6901	2116	105.98	4416

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	-200	-300	0	400	0.00	6.64	0.00	6.64	-6.64
Gwalior-Agra (D/C)	0	185	440	0	4.53	0.00	4.53	0.00	4.53
Zerda-Kankroli	-152	-32	89	157	0.00	1.25	0.00	1.25	-1.25
Zerda-Bhinmal	-68	74	215	121	1.06	0.00	1.06	0.00	1.06
Malanpur-Auraiya	-178	-148	0	227	0.00	3.67	0.00	3.67	-3.67
Badod-Kota/Morak	-88	-86	80	126	0.00	-1.29	0.00	-1.29	1.29
Mundra-Mohindergarh(HVDC)	803	643	831	0	18.08	0.00	18.08	0.00	18.08
Sub Total WR	117	336			23.67	10.28		13.39	
Pusauli Bypass	-173	50	50	173	0.70	0.75	0.00	0.00	-0.05
MZP- GKP (D/C)	358	410	606	0	12.49	0.00	12.49	0.00	12.49
Patna-Balia(D/C)	771	634	861	0	19.46	0.00	19.46	0.00	19.46
B'Sharif-Balia (D/C)	302	138	352	0	6.13	0.00	6.13	0.00	6.13
Barh - Balia(D/C)	0	0	0	0	0.00	0.00	0.00	0.00	0.00
Pusauli-Balia	25	-52	45	57	0.00	0.31	0.00	0.31	-0.31
Gaya-Fatehpur (765 Kv)	205	171	300	0	5.34	0.00	5.34	0.00	5.34
Pusauli-Sahupuri	140	120	154	0	3.19	0.00	3.19	0.00	3.19
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00	0.00	0.00
Son Ngr-Rihand	-37	-32	0	48	0.00	0.85	0.00	0.85	-0.85
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00	0.00	0.00
Sub Total ER	1591	1439			47.30	1.91		45.39	
Total IR Exch	1708	1775			70.97	12.19		58.78	

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
43.12	0.25	43.37	11.30	-22.09	-0.09	7.01	-3.47	3.71
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
51.11	-1.04	50.07	45.39	13.39	58.78	-5.72	14.43	8.71

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	3.16	93.25	90.09	69.10	6.75
<----- 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				
50.48	17.03	49.55	6.54	50.07	0.29	0.19	50.35	49.69

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	4:07	398	11:12	0.0	0.0	0.0	0.0
Gorakhpur	400	433	5:37	407	10:18	0.0	0.0	63.1	5.0
Bareilly	400	424	4:05	401	10:14	0.0	0.0	19.1	0.0
Kanpur	400	418	4:05	394	10:12	0.0	0.0	0.0	0.0
Dadri	400	421	4:03	401	10:14	0.0	0.0	0.8	0.0
Ballabhgarh	400	427	4:05	402	10:14	0.0	0.0	26.5	0.0
Bawana	400	423	20:57	404	10:14	0.0	0.0	10.6	0.0
Bassi	400	431	3:58	396	6:43	0.0	0.0	18.1	0.5
Hissar	400	415	20:39	394	11:33	0.0	0.0	0.0	0.0
Moga	400	415	2:01	393	10:16	0.0	0.0	0.0	0.0
Abdullapur	400	427	20:59	0	12:11	42.4	42.4	32.1	0.0
Nalagarh	400	423	0:04	403	11:11	0.0	0.0	0.2	0.0
Kishenpur	400	414	16:38	391	10:56	0.0	0.0	0.0	0.0
Wagoora	400	404	16:38	369	18:26	40.0	65.6	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	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
Koteswar	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 18.12.2012 :

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 : 18.12.2012

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER