

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरसिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 23.09.2012

Date of Reporting : 24.09.2012

I. Regional Availability/Demand:

Demand Met	Evening Peak (20:00 Hrs) MW			Demand Met	Off Peak (03:00 Hrs) MW			Day Energy (Net MU)	
	Shortage	Requirement	Freq* (Hz)		Shortage	Requirement	Freq* (Hz)	Demand Met	Shortage
34209	3265	37475	50.26	31037	3162	34199	50.38	764.4	69.00

* 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 *
Punjab	43.60	8.64		52.24	84.82	85.92	1.10	138.16	1.80
Haryana	44.83	0.79		45.62	65.60	66.03	0.43	111.65	17.69
Rajasthan	73.66	2.03	17.52	93.20	54.24	54.31	0.07	147.50	0.25
Delhi	21.05			21.05	57.79	55.34	-2.45	76.39	0.02
UP	87.98	16.07	0.00	104.04	100.79	100.74	-0.04	204.79	46.00
Uttarakhand		20.61		20.61	6.54	7.85	1.31	28.47	1.48
HP		18.00		18.00	5.41	5.23	-0.18	23.23	0.05
J & K		15.32	0.00	15.32	16.00	14.78	-1.21	30.11	1.70
Chandigarh				0.00	4.65	4.11	-0.54	4.11	0.00
Total	271.10	81.46	17.52	370.08	395.83	394.31	-1.52	764.39	69.00

* 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 (20:00 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	6041	600	-4	773	5554	0	26	1491	31.24	
Haryana	5282	915	-97	320	4503	712	93	388	9.33	
Rajasthan	6461	0	-129	734	6061	0	-10	200	7.92	
Delhi	3595	0	70	-56	2996	0	-231	-214	-1.67	
UP	8472	1650	-379	474	8885	2300	356	620	13.21	
Uttarakhand	1431	0	156	-167	1016	150	32	-200	-4.48	
HP	1065	0	-90	-864	915	0	44	-852	-15.76	
J&K	1649	100	44	-247	955	0	-219	-298	-7.00	
Chandigarh	214	0	-7	9	152	0	-7	-23	0.12	
Total	34209	3265	-435	976	31037	3162	83	1313	32.91	

* 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	1430	1513	1510	34.03	1418	34.31	-0.28
Rihand I STPS	1000	764	831	813	18.09	754	18.25	-0.16
Rihand II STPS	1000	822	997	902	19.39	808	19.65	-0.26
Rihand III STPS	500	0	0	0	0.00	0		0.00
Dadri I STPS	840	600	451	449	9.90	413	10.33	-0.43
Dadri II STPS	980	970	940	836	18.32	763	21.25	-2.93
Unchahar I TPS	420	403	331	391	8.50	354	9.25	-0.75
Unchahar II TPS	420	393	330	355	7.83	326	8.64	-0.81
Unchahar III TPS	210	199	169	189	4.05	169	4.41	-0.36
ISTPP (Jhajihar)	1000	950	809	458	14.31	596	15.01	-0.70
Dadri GPS	830	798	392	401	9.13	380	9.59	-0.47
Anta GPS	419	393	240	230	5.54	231	5.60	-0.06
Auraiya GPS	663	420	258	275	6.40	267	6.44	-0.04
Sub Total (A)	10282	8143	7261	6809	155.48	6478	162.74	-7.26
B. NPC								
NAPS	440	261	301	308	6.39	266	6.26	0.13
RAPS- B	440	406	450	463	9.81	409	9.74	0.06
RAPS- C	440	455	464	466	9.95	414	10.92	-0.97
Sub Total (B)	1320	1122	1215	1237	26.14	1089	26.93	-0.79
C. NHPC								
Chamera I HPS	540	535	540	450	12.00	500	12.04	-0.04
Chamera II HPS	300	300	301	197	6.06	253	6.32	-0.26
Chamera III HPS	231	213	232	154	4.09	170	4.12	-0.03
Bairasuil HPS	180	161	120	120	2.59	108	2.80	-0.21
Salai-HPS	690	520	605	540	12.29	512	12.03	0.26
Tanakpur-HPS	94	94	93	94	2.24	93	2.24	0.00
Uri-HPS	480	475	474	446	11.21	467	11.12	0.08
Dhauliganga-HPS	280	277	277	207	5.85	244	5.87	-0.02
Duihasti-HPS	390	387	406	373	9.23	385	9.23	0.00
Sewa-II HPS	120	80	84	80	1.93	80	1.92	0.01
Sub Total (C)	3305	3041	3132	2661	67.49	2812	67.69	-0.20
D.NJPC								
Natpha Jhakri	1500	1605	1601	978	23.21	967	22.99	0.22
Sub Total (D)	1500	1605	1601	978	23.21	967	22.99	0.22
E. THDC								
Tehri HPS	1000	1050	1051	0	10.02	417	10.00	0.02
Koteshwar HPS	400	375	373	0	3.97	165	3.90	0.07
Sub Total (E)	1400	1425	1424	0	13.99	583	13.90	0.09
F. BBMB								
Bhakra HPS	1480	626	1100	494	15.60	650	15.03	0.57
Dehar HPS	990	616	660	640	14.91	621	14.79	0.12
Pong HPS	396	210	366	186	5.18	216	5.01	0.17
Sub Total (F)	2866	1453	2126	1320	35.69	1487	34.83	0.86
G. IPP(s)/JV(s)								
ADHPL HPS(IPP)	192	0	99	77	2.05	86	2.17	-0.12
KWHEP HPS(IPP)	1000	0	212	275	12.64	527	11.82	0.82
Malana Stg-II HPS	100	0	42	45	0.62	26	0.62	0.00
Shree Cement TPS	300	0	118	68	2.05	85	2.20	-0.16
Budhil HPS(IPP)	70	0	40	50	0.66	27	0.20	0.46
Sub Total (G)	1662	0	511	515	18.02	751	17.02	1.01
H. Total Regional Entities (A-G)	22336	16788	17270	13520	340.02	14167	346.08	-6.06

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	844	848	20.65	860	
	Guru Nanak Dev TPS(Bhatinda)	440	100	100	2.04	85	
	Guru Hargobind Singh TPS(L.mbt)	920	948	935	20.91	871	
	Thermal (Total)	2620	1892	1883	43.60	1816	
	Total Hydro	1148	517	271	8.64	360	
	Total Punjab	3768	2409	2154	52.24	2177	
Haryana	Panipat TPS	1367	1129	1112	27.16	1132	
	DCRTPP (Yamuna nagar)	600	0	0	0.00	0	
	Faridabad GPS (NTPC)	432	400	406	8.88	370	
	RGTPP (khedar) (IPP)	1200	0	0	0.00	0	
	Magnum Diesel (IPP)	25	0	0	0.00	0	
	Jhajjar(CLP)	1320	352	360	8.79	366	
	Thermal (Total)	4944	1881	1878	44.83	1868	
	Total Hydro	62	33	31	0.79	33	
	Total Haryana	5006	1914	1909	45.62	1901	
Rajasthan	kota TPS	1240	833	863	19.65	819	
	suratgarh TPS	1500	1070	1112	24.47	1019	
	Chabra TPS	500	443	433	10.15	423	
	Dholpur GPS	330	143	137	3.30	138	
	Ramgarh GPS	111	56	57	1.50	62	
	RAPS A (NPC)	300	179	179	4.19	175	
	Barsingar (NLC)	250	111	103	2.40	100	
	Giral LTPS	250	21	0	0.01	1	
	Rajwest LTPS (IPP)	540	347	347	7.99	333	
	VSLP LTPS (IPP)	135	0	0	0.00	0	
	Thermal (Total)	5156	3203	3231	73.66	3069	
	Total Hydro	550	90	50	2.03	84	
	Wind power	1843	468	762	14.98	624	
	Biomass	91	21	21	0.52	21	
	Solar	128	0	0	0.00	0	
	Renewable/Others (Total)	2062	489	783	17.52	730	
	Total Rajasthan	7767	3782	4064	93.20	3883	
	UP	Anpara TPS	1630	1223	1172	24.60	1025
		Obra TPS	1382	326	354	7.90	329
		Paricha TPS	890	574	556	12.20	508
Panki TPS		210	115	125	2.50	104	
Harduaganj TPS		665	170	191	4.20	175	
Tanda TPS (NTPC)		440	395	395	9.65	402	
Roza TPS (IPP)		1200	639	540	12.80	533	
Anpara-C (IPP)		1200	475	468	11.37	474	
Bajaj Energy Pvt.Ltd(IPP) TPS		450	113	127	2.76	115	
Thermal (Total)		8067	4030	3928	87.98	3666	
Vishnuparyag HPS (IPP)		400	436	436	10.38	432	
Other Hydro		527	160	0	5.69	237	
Cogeneration		981	0	0	0.00	0	
Total UP		9975	4626	4364	104.04	3903	
Uttarakhand		Total Hydro	1303	848	849	20.61	859
	Total Uttarakhand	1303	848	849	20.61	859	
Delhi	Raighat TPS	135	49	83	1.70	71	
	Delhi Gas Turbine	282	76	73	1.88	78	
	Pragati Gas Turbine	330	265	264	6.48	270	
	Rithala GPS	108	0	0	0.00	0	
	Bawana GPS	677	0	0	0.00	0	
	Badarpur TPS (NTPC)	705	500	500	10.99	458	
	Thermal (Total)	2237	890	920	21.05	877	
	Total Delhi	2237	890	920	21.05	877	
HP	Baspa HPS (IPP)	330	219	120	4.10	171	
	Malana HPS (IPP)	86	72	22	1.01	42	
	Other Hydro	589	568	548	12.89	537	
	Total HP	1005	859	690	18	750	
J & K	Baglihar HPS (IPP)	450	442	440	10.59	441	
	Other Hydro	323	185	210	4.73	197	
	Gas/Diesel/Others	183	0	0	0.00	0	
	Total J & K	956	627	650	15.32	639	
Total State Control Area Generation		32017	15955	15600	370.08	14988	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			1344	2954	64.78	2699	
Total Regional Availability(Gross)		54353	34569	32074	774.88	31854	

IV. Total Hydro Generation:

Regional Entities Hydro	10364	8636	5356	155.69	6487
State Control Area Hydro	5368	3134	2541	81.46	2962
Total Regional Hydro	15731	11770	7897	237.15	9449

V(A). Inter Regional Exchange [Import (+ve)/Export (-ve)] [Linkwise]

Element	Peak(20:00 Hrs)	Off Peak(03:00 Hrs)	Maximum Interchange (MW)		Energy (MU)		Net Energy MU
	MW	MW	Import	Export	Import	Export	
Vindhychal B/B	50	-150	50	150	0.46	1.00	-0.54
Gwalior-Agra (D/C)	0	465	793	0	10.81	0.00	10.81
Zerda-Kankroli	-104	8	67	108	0.00	0.46	-0.46
Zerda-Bhinmal	-86	5	102	133	0.22	0.00	0.22
Malanpur-Auraiya	-73	-20	0	136	0.00	1.61	-1.61
Badod-Kota/Morak	-31	27	101	35	0.79	0.00	0.79
Mundra-Mohindergarh(HVDC)	604	607	607	0	14.75	0.00	14.75
Sub Total WR	360	942			27.03	3.07	23.96
Pusauli Bypass	250	250	250	0	6.04	0.00	6.04
MZP- GKP (D/C)	398	824	880	0	14.57	0.00	14.57
Patna-Balia(D/C)	226	575	611	0	6.50	0.00	6.50
B'Sharif-Balia (D/C)	162	310	532	0	7.90	0.00	7.90
Barh - Balia(D/C)	0	0	375	0	2.63	0.00	2.63
Pusauli-Balia	-153	-99	22	115	0.00	0.72	-0.72
Gaya-Fatehpur (765 Kv)	0	6	227	0	1.32	0.00	1.32
Pusauli-Sahupuri	148	188	188	0	3.61	0.00	3.61
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-47	-42	0	48	0.00	1.03	-1.03
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sub Total ER	984	2012			42.57	1.74	40.82
Total IR Exch	1344	2954			69.59	4.81	64.78

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
29.66	3.51	33.17	5.18	6.76	5.66	-2.59	-0.39	0.43
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
43.61	19.50	63.11	40.82	23.96	64.78	-2.79	4.46	1.67

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	0.10	0.60	77.80	77.30	80.70	22.10

<----- 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				
50.62	18.03	49.50	22.05	50.11	0.30	0.14	50.47	49.88

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	417	18:03	409	22:05	0.0	0.0	0.0	0.0
Gorakhpur	400	431	18:03	410	4:52	0.0	0.0	55.3	0.9
Bareilly	400	426	18:05	403	22:06	0.0	0.0	1.1	0.0
Kanpur	400	425	18:01	408	22:06	0.0	0.0	2.9	0.0
Dadri	400	423	18:02	410	22:06	0.0	0.0	1.6	0.0
Ballabhgarh	400	429	18:01	415	19:26	0.0	0.0	58.4	0.0
Bawana	400	425	18:03	411	22:05	0.0	0.0	9.4	0.0
Bassi	400	434	3:04	412	19:29	0.0	0.0	56.9	3.8
Hissar	400	419	18:02	400	18:36	0.0	0.0	0.0	0.0
Moga	400	418	18:06	399	18:36	0.0	0.0	0.0	0.0
Abdullapur	400	423	18:01	410	20:00	0.1	0.1	4.4	0.0
Nalagarh	400	423	18:03	409	12:37	0.0	0.0	0.7	0.0
Kishenpur	400	416	18:06	399	19:28	0.0	0.0	0.0	0.0
Wagoora	400	414	3:02	386	19:58	0.0	6.4	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	504.84	1298.95	512.17	1650.87	749.06	399.89
Pong	426.72	384.05	422.39	1005.78	423.84	1082.23	657.94	253.58
Tehri	829.79	740.04	822.80	1065.00	818.65	982.26	328.35	482.00
Koteshwar	612.50	598.50	609.30	4.21	NA	NA	482.00	504.00
Chamera-I	760.00	748.75	NA	NA	NA	NA	337.32	346.75
Rihand	268.22	252.98	264.11	552.20	265.54	652.40	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	520.00	NA	524.83	NA	360.44	46.18

* NA: Not Available

IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

XI. Weather Conditions For 23.09.2012 :

1: Normal weather in NR.

XII. Synchronisation of new generating units :

XIII. Synchronisation of new 220 / 400 / 765 KV lines and energising of bus / substation :

1: 765kV Bhiwani - Jhatikara line first time charged from Bhiwani end at 10.22 hrs of dt 23.09.2012 upto Jhatikara gantry as reported by POWERGRID (CPCC- NR 2).

XIV. Tripping of lines in pooling stations :

XV. Complete generation loss in a generating station :

Report for : 23.09.2012

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER