

पावर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 30.09.2013
Date of Reporting : 01.10.2013

I. Regional Availability/Demand:

Evening Peak (20:00 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
37758	2425	40183	50.23	32508	750	33258	50.22	817.1	35.09

* 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:

UI [OD:(+ve), UD: (-ve)]

State	State's Control Area Generation (Net MU)				Drawal Schedule (Net MU)	Actual Drawal (Net MU)	UI (Net MU)	Consumption (Net MU)	Shortages * (MU)
	Thermal	Hydro	Renewable/others \$	Total					
Punjab	48.82	12.51		61.34	99.35	99.19	-0.17	160.52	0.00
Haryana	56.98	0.54		57.52	69.95	68.76	-1.19	126.28	0.00
Rajasthan	62.01	6.69	8.37	77.07	52.28	45.84	-6.44	122.91	0.00
Delhi	20.18			20.18	66.78	64.28	-2.50	84.46	0.01
UP	117.39	3.91	1.70	123.00	116.83	112.26	-4.57	235.26	34.41
Uttarakhand		16.75		16.75	12.46	13.01	0.55	29.76	0.68
HP		16.81		16.81	5.72	6.73	1.01	23.54	0.00
J & K		13.52	0.00	13.52	17.08	15.97	-1.11	29.49	0.00
Chandigarh				0.00	4.94	4.90	-0.04	4.90	0.00
Total	305.38	70.73	10.07	386.18	445.40	430.93	-14.47	817.11	35.09

* Shortage furnished by the respective constituent.\$ Others include UP Co-generation and JK Diesel

II. B. State's Demand Met in MWs:

UI/OA/PX [OD/Import: (+ve), UD/Export: (-ve)]

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	
Punjab	7102	0	-72	1741	6634	0	-56	1984	43.87
Haryana	6263	0	-174	344	4680	0	133	202	-1.17
Rajasthan	6381	0	16	593	4680	0	-9	-21	7.42
Delhi	3988	0	-289	20	3032	0	-170	-498	-4.45
UP	9800	2100	-146	843	10456	750	-188	1989	32.70
Uttarakhand	1356	225	17	88	1065	0	-88	37	2.45
HP	1146	0	-166	-937	775	0	176	-580	-13.40
J&K	1489	100	-56	-82	1022	0	-19	-300	-2.53
Chandigarh	233	0	-20	-20	164	0	-2	-20	0.19
Total	37758	2425	-889	2590	32508	750	-223	2792	65.07

* STOA figures are at sellers boundary & PX figures are at regional boundary.

III. Regional Entities :

UI [OG:(+ve), UG: (-ve)]

Station/ Constituent	Inst. Capacity (Effective) MW	Declared Capacity(MW)	Peak MW (Gross)	Off Peak MW (Gross)	Energy (Net MU)	Average Sentout(MW)	Schedule Net MU	UI Net MU
A. NTPC								
Singrauli STPS	2000	#VALUE!	1877	1699	40.19	1675	#VALUE!	#VALUE!
Rihand I STPS	1000	#VALUE!	999	410	18.97	790	#VALUE!	#VALUE!
Rihand II STPS	1000	#VALUE!	512	404	9.89	412	#VALUE!	#VALUE!
Rihand III STPS	500	#VALUE!	400	401	8.88	370	#VALUE!	#VALUE!
Dadri I STPS	840	#VALUE!	626	458	10.77	449	#VALUE!	#VALUE!
Dadri II STPS	980	#VALUE!	955	700	19.19	799	#VALUE!	#VALUE!
Unchahar I TPS	420	#VALUE!	385	345	8.16	340	#VALUE!	#VALUE!
Unchahar II TPS	420	#VALUE!	321	305	6.93	289	#VALUE!	#VALUE!
Unchahar III TPS	210	#VALUE!	191	151	3.66	152	#VALUE!	#VALUE!
ISTPP (Jhajjar)	1500	#VALUE!	633	655	13.30	554	#VALUE!	#VALUE!
Dadri GPS	830	#VALUE!	502	563	12.11	505	#VALUE!	#VALUE!
Anta GPS	419	#VALUE!	238	250	5.83	243	#VALUE!	#VALUE!
Auraiya GPS	663	#VALUE!	157	158	3.65	152	#VALUE!	#VALUE!
Sub Total (A)	10782	#VALUE!	7796	6499	161.52	6730	#VALUE!	#VALUE!
B. NPC								
NAPS	440	#VALUE!	328	339	7.11	296	#VALUE!	#VALUE!
RAPS- B	440	#VALUE!	442	446	9.61	400	#VALUE!	#VALUE!
RAPS- C	440	#VALUE!	461	458	9.89	412	#VALUE!	#VALUE!
Sub Total (B)	1320	#VALUE!	1231	1243	26.60	1108	#VALUE!	#VALUE!
C. NHPC								
Chamera I HPS	540	#VALUE!	540	180	5.50	229	#VALUE!	#VALUE!
Chamera II HPS	300	#VALUE!	300	100	3.71	155	#VALUE!	#VALUE!
Chamera III HPS	231	#VALUE!	75	75	2.41	100	#VALUE!	#VALUE!
Bairasuil HPS	180	#VALUE!	60	20	1.24	52	#VALUE!	#VALUE!
Salal-HPS	690	#VALUE!	571	507	10.50	438	#VALUE!	#VALUE!
Tanakpur-HPS	94	#VALUE!	94	92	2.24	93	#VALUE!	#VALUE!
Uri-HPS	480	#VALUE!	248	211	5.22	217	#VALUE!	#VALUE!
Dhauliganga-HPS	280	#VALUE!	0	0	0.00	0	#VALUE!	#VALUE!
Dulhasti-HPS	390	#VALUE!	410	408	9.29	387	#VALUE!	#VALUE!
Sewa-II HPS	120	#VALUE!	124	0	0.61	25	#VALUE!	#VALUE!
Sub Total (C)	3305	#VALUE!	2422	1593	40.71	1696	#VALUE!	#VALUE!
D. NJPC								
Nathpa Jhakri	1500	#VALUE!	1485	914	21.81	909	#VALUE!	#VALUE!
Sub Total (D)	1500	#VALUE!	1485	914	21.81	909	#VALUE!	#VALUE!
E. THDC								
Tehri HPS	1000	#VALUE!	933	230	7.62	318	#VALUE!	#VALUE!
Koteshwar HPS	400	#VALUE!	100	101	2.40	100	#VALUE!	#VALUE!
Sub Total (E)	1400	#VALUE!	1033	331	10.02	418	#VALUE!	#VALUE!
F. BBMB								
Bhakra HPS	1497	#VALUE!	1355	668	19.69	820	#VALUE!	#VALUE!
Dehar HPS	990	#VALUE!	660	305	10.11	421	#VALUE!	#VALUE!
Pong HPS	396	#VALUE!	372	246	7.73	322	#VALUE!	#VALUE!
Sub Total (F)	2883	#VALUE!	2387	1219	37.53	1564	#VALUE!	#VALUE!
G. IPP(s)/JV(s)								
ADHPL HPS(IPP)	192	#VALUE!	77	79	1.64	68	#VALUE!	#VALUE!
KWHEP HPS(IPP)	1000	#VALUE!	497	474	11.73	489	#VALUE!	#VALUE!
Malana Stg-II HPS	100	#VALUE!	108	0	0.92	38	#VALUE!	#VALUE!
Shree Cement TPS	300	#VALUE!	249	124	4.81	200	#VALUE!	#VALUE!
Budhil HPS(IPP)	70	#VALUE!	35	35	0.83	34	#VALUE!	#VALUE!
Sub Total (G)	1662	#VALUE!	966	712	19.92	830	#VALUE!	#VALUE!
H. Total Regional Entities (A-G)	22852	#VALUE!	17320	12511	318.12	13255	#VALUE!	#VALUE!

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	1060	1090	24.48	1020
	Guru Nanak Dev TPS(Bhatinda)	440	344	295	6.61	275
	Guru Hargobind Singh TPS(L.mbt)	920	790	719	17.74	739
	Goindwal(GVK)		0	0	0.00	0
	Thermal (Total)	2620	2194	2104	48.82	2034
	Total Hydro	1148	539	514	12.51	521
	Total Punjab	3768	2733	2618	61.34	2556
Haryana	Panipat TPS	1367	434	418	10.12	422
	DCRTPP (Yamuna nagar)	600	279	248	5.60	233
	Faridabad GPS (NTPC)	432	186	283	5.15	215
	RGTPP (khedar) (IPP)	1200	571	495	13.23	551
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	1320	1023	694	22.89	954
	Thermal (Total)	4944	2493	2138	56.98	2374
	Total Hydro	62	12	12	0.54	22
	Total Haryana	5006	2505	2150	57.52	2397
Rajasthan	kota TPS	1240	650	713	16.74	698
	suratgarh TPS	1500	846	766	18.90	788
	Chabra TPS	500	228	196	4.53	189
	Dholpur GPS	330	109	92	2.45	102
	Ramgarh GPS	111	24	7	0.47	20
	RAPS A (NPC)	300	168	168	3.99	166
	Barsingsar (NLC)	250	187	187	4.35	181
	Giral LTPS	250	0	0	0.00	0
	Rajwest LTPS (IPP)	1080	579	410	10.57	441
	VSLP LTPS (IPP)	135	0	0	0.00	0
	Kalisindh Thermal	600	0	0	0.00	0
	Kawai(Adani)	660	0	0	0.00	0
	Thermal (Total)	6956	2791	2539	62.01	2584
	Total Hydro	550	275	232	6.69	279
	Wind power	2191	192	269	6.61	275
	Biomass	91	20	20	0.48	20
	Solar	201	0	0	1.29	54
	Renewable/Others (Total)	2483	212	289	8.37	349
	Total Rajasthan	9989	3278	3060	77.07	3211
UP	Anpara TPS	1630	1177	1200	28.80	1200
	Obra TPS	1288	392	387	10.20	425
	Paricha TPS	1140	787	779	18.10	754
	Panki TPS	210	72	72	1.80	75
	Harduaganj TPS	665	326	371	6.70	279
	Tanda TPS (NTPC)	440	295	292	7.32	305
	Roza TPS (IPP)	1200	842	868	21.15	881
	Anpara-C (IPP)	1200	660	685	16.66	694
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	223	284	6.66	278
	Thermal (Total)	8223	4774	4938	117.39	4891
	Vishnuparyag HPS (IPP)	400	0	0	0.00	0
	Other Hydro	527	188	150	3.91	163
	Cogeneration	981	70	70	1.70	71
	Total UP	10131	5032	5158	123.00	5125
Uttarakhand	Total Hydro	1303	700	714	16.75	698
	Total Uttarakhand	1303	700	714	16.75	698
Delhi	Rajghat TPS	135	37	43	0.83	34
	Delhi Gas Turbine	282	160	157	3.76	157
	Pragati Gas Turbine	330	265	141	4.38	182
	Rithala GPS	95	0	0	0.00	0
	Bawana GPS	686	0	0	0.00	0
	Badarpur TPS (NTPC)	705	505	505	11.22	467
	Thermal (Total)	2232	967	846	20.18	841
	Total Delhi	2232	967	846	20.18	841
HP	Baspa HPS (IPP)	330	480	0	4.55	189
	Malana HPS (IPP)	86	48	27	0.92	38
	Other Hydro	589	500	464	11.34	473
	Total HP	1005	1028	491	16.81	700
J & K	Baglihar HPS (IPP)	450	438	436	10.47	436
	Other Hydro	323	102	128	3.05	127
	Gas/Diesel/Others	183	0	0	0.00	0
	Total J & K	956	540	564	13.52	563
Total State Control Area Generation		34390	16783	15601	386.18	16091
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			5339	5043	124.67	5195
Total Regional Availability(Gross)		57242	39442	33155	828.97	34540

IV. Total Hydro Generation:

Regional Entities Hydro	10380	8009	4610	124.36	5182
State Control Area Hydro	5368	3282	2677	70.73	2947
Total Regional Hydro	15748	11291	7287	195.10	8129

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	500	300	500	0	8.84	0.00	8.84
Gwalior-Agra (D/C)	1382	1566	1772	0	36.78	0.00	36.78
Zerda-Kankroli	40	-157	40	206	0.00	2.39	-2.39
Zerda-Bhinmal	56	-139	79	211	0.00	1.86	-1.86
Malanpur-Auraiya	-38	-42	0	80	0.00	1.10	-1.10
Badod-Kota/Morak	51	-32	51	82	0.00	0.74	-0.74
Mundra-Mohindergarh(HVDC)	1431	960	1435	0	31.08	0.00	31.08
Sub Total WR	3422	2456			76.70	6.09	70.61
Pusauli Bypass	100	100	100	0	2.44	0.00	2.44
MZP- GKP (D/C)	558	902	902	0	17.66	0.00	17.66
Patna-Balia(D/C)	612	713	781	0	16.24	0.00	16.24
B'Sharif-Balia (D/C)	483	505	562	0	11.61	0.00	11.61
Pusauli-Balia	45	54	76	0	1.08	0.00	1.08
Gaya-Fatehpur (765 Kv)	21	196	196	0	2.46	0.00	2.46
Pusauli-Sahupuri	135	153	170	0	3.45	0.00	3.45
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-37	-36	0	37	0.00	0.87	-0.87
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sasaram - Fatehpur(765 KV)	0	0	0	0	0.00	0.00	0.00
Sub Total ER	1917	2587			54.93	0.87	54.06
Total IR Exch	5339	5043			131.62	6.96	124.67

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
38.19	2.10	40.29	2.40	22.39	19.01	1.29	4.10	-4.10

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
65.80	71.67	137.46	54.06	70.61	124.67	-11.74	-1.05	-12.80

VI. Frequency Profile <----- % of Time Frequency ----->

<48.80	<49.0	<49.20	<49.50	<49.7	49.5 - 50.2	49.7-49.8	49.7 - 50.2	> 50.00	> 50.2
0.00	0.00	0.00	0.00	0.20	88.70	1.00	88.50	73.90	11.30

<----- Frequency (Hz) ----->				Average Frequency	Frequency Variation	Std. Dev.	Frequency in 15 Min Block	
Maximum		Minimum					MAX	MIN
Freq	Time	Freq	Time	Hz	Index	(Hz)	(Hz)	
50.41	4.47	49.65	19.26	50.07	0.16	50.39	49.94	

VII. Voltage profile 400 kV

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	412	4:46	401	14:16	0.0	0.0	0.0	0.0
Gorakhpur	400	421	7:59	407	14:52	0.0	0.0	0.1	0.0
Bareilly	400	418	7:58	399	14:49	0.0	0.0	0.0	0.0
Kanpur	400	419	7:54	405	19:02	0.0	0.0	0.0	0.0
Dadri	400	417	4:01	400	12:28	0.0	0.0	0.0	0.0
Ballabgarh	400	425	3:59	404	14:49	0.0	0.0	24.5	0.0
Bawana	400	422	4:02	402	14:50	0.0	0.0	4.1	0.0
Bassi	400	430	2:45	407	19:01	0.0	0.0	39.2	0.0
Hissar	400	412	3:59	394	12:27	0.0	0.0	0.0	0.0
Moga	400	412	3:30	397	14:45	0.0	0.0	0.0	0.0
Abdullapur	400	423	8:00	409	14:00	0.0	0.0	0.0	0.0
Nalagarh	400	416	2:46	403	14:45	0.0	0.0	0.0	0.0
Kishenpur	400	421	4:02	403	19:02	0.0	0.0	0.2	0.0
Wagoora	400	423	3:05	396	19:00	0.0	0.0	11.2	0.0

VIII. Voltage profile 765 kV

Station	Voltage Level (kV)	Maximum		Minimum		Voltage (in % of Time)			
		Voltage(KV)	Time	Voltage (KV)	Time	<728 kV	<742 kV	>800 kV	>820 kV
Fatehpur	765	773	23:50	729	19:09	0.0	28.5	0.0	0.0
Balia	765	760	11:55	730	14:49	0.0	15.4	0.0	0.0
Moga	765	782	4:01	751	14:50	0.0	0.0	0.0	0.0
Agra	765	811	4:47	0	13:51	37.9	37.9	26.4	0.0
Bhiwani	765	799	4:00	767	12:26	0.0	0.0	0.0	0.0
Unnao	765	752	0:00	0	12:33	38.7	38.7	0.0	0.0

IX. 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 (m ³ /s)	Usage (m ³ /s)
Bhakra	513.59	445.62	511.13	1605.30	505.13	1312.37	497.50	558.12
Pong	426.72	384.05	422.87	1020.81	422.55	1005.78	230.39	432.57
Tehri	829.79	740.04	824.80	1107.95	818.65	982.26	153.90	165.00
Koteshwar	612.50	598.50	608.20	4.96	NA	NA	138.00	158.00
Chamera-I	760.00	748.75	NA	NA	NA	NA	143.43	148.71
Rihand	268.22	252.98	260.70	343.60	264.14	554.30	NA	NA
RPS	352.80	343.81	352.78	NA	NA	NA	NA	263.43
Jawahar Sagar	298.70	295.78	298.46	NA	NA	NA	NA	236.08

RSD	527.91	487.91	518.96	144.00	518.90	144.00	220.02	125.98
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* NA: Not Available

X. System Constraints:

XI. Grid Disturbance / Any Other Significant Event:

XII. Weather Conditions For 30.09.2013 :

1. Normal weather in NR.

XIII. Synchronisation of new generating units :

Rihand-Unit 6 (500MW) synchronised at 20:42 hrs. & closed down at 21:02 hrs.

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

1. 400 KV BUS-II, 500 MVA ICT-1, 125 MVAr Bus Reactor synchronised at 400/220 KVJIND substation at 18:32 hrs.

2. 315 MVA ICT-II at NEW-WANPOH synchronised at 23.40 hrs of 30.09.2013.

3. 400/220 kV 500 MVA ICT-3 Test charged at Amritsar at 17.40 hrs of 30.09.2013.

XV. Tripping of lines in pooling stations :

XVI. Complete generation loss in a generating station :

Vishnuprayag (400MW) and Dhauliganga (280MW) are out of operation since 16.06.2013.

Civil construction is in progress for rectification of the major damages in Plants/Dam caused due to flood

Vishnuprayag and Dhauliganga expected by Dec, 2013 .

Report for : 30.09.2013

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER