

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरसिस्टम की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 25.10.2013
Date of Reporting : 26.10.2013

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
33895	2545	36440	50.19	28355	750	29105	50.16	726.6	48.62

* 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)	Consumption (Net MU)	Shortages* (MU)
	Thermal	Hydro	Renewable/others \$	Total					
Punjab	29.57	10.59		40.16	60.52	61.90	1.38	102.06	0.00
Haryana	51.68	0.71		52.39	55.98	57.16	1.18	109.55	0.19
Rajasthan	67.92	2.70	7.24	77.86	82.50	79.23	-3.27	157.09	0.00
Delhi	19.71			19.71	51.64	49.86	-1.78	69.57	0.08
UP	122.58	2.21	1.20	125.99	77.55	76.40	-1.15	202.39	44.65
Uttarakhand		10.94		10.94	17.47	18.95	1.48	29.89	1.56
HP		9.21		9.21	11.33	12.57	1.24	21.78	0.45
J & K		8.36	0.00	8.36	21.88	22.23	0.36	30.59	1.70
Chandigarh				0.00	3.74	3.73	-0.01	3.73	0.00
Total	291.46	44.72	8.44	344.62	382.62	382.02	-0.59	726.64	48.62

* 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	
Punjab	4681	0	42	159	3929	0	106	100	6.54
Haryana	5479	0	235	-410	4247	0	109	-427	-14.29
Rajasthan	7005	0	-252	1617	5965	0	-140	1563	37.11
Delhi	3470	0	-235	-514	2131	0	-80	-1169	-17.61
UP	9108	2230	-83	-94	8995	750	-33	268	0.01
Uttarakhand	1352	215	-25	161	1113	0	62	333	7.07
HP	1091	0	39	-298	729	0	8	41	-1.78
J&K	1520	100	-66	139	1143	0	-20	148	3.13
Chandigarh	189	0	-11	-44	103	0	-6	-15	-0.21
Total	33895	2545	-355	717	28355	750	6	842	19.98

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

III. Regional Entities :

Entity	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	
										UI (OG:(+ve), UG: (-ve))
A. NTPC	Singrauli STPS	2000	1940	2081	2091	46.86	1953	46.51	0.35	
	Rihand I STPS	1000	662	876	729	15.97	665	15.84	0.13	
	Rihand II STPS	1000	696	993	712	16.81	700	16.66	0.15	
	Rihand III STPS	1000	349	498	307	8.36	348	8.30	0.06	
	Dadri I STPS	840	810	859	651	17.70	737	17.80	-0.11	
	Dadri II STPS	980	975	970	853	21.98	916	22.19	-0.22	
	Unchahar I TPS	420	201	220	201	4.72	197	4.72	0.00	
	Unchahar II TPS	420	404	440	378	9.26	386	9.30	-0.04	
	Unchahar III TPS	210	201	218	170	4.39	183	4.31	0.08	
	ISTPP (Jhajjar)	1500	1480	633	632	14.18	591	14.21	-0.02	
	Dadri GPS	830	804	582	572	13.62	568	13.72	-0.09	
	Anta GPS	419	404	404	405	9.32	388	9.36	-0.04	
	Auraiya GPS	663	642	155	158	3.65	152	3.65	0.00	
	Sub Total (A)	11282	9567	8929	7859	186.80	7783	186.56	0.24	
	B. NPC	NAPS	440	300	342	339	7.21	301	7.20	0.01
		RAPS- B	440	410	451	455	9.81	409	9.84	-0.03
RAPS- C		440	425	472	474	10.07	420	10.20	-0.13	
Sub Total (B)		1320	1135	1265	1268	27.10	1129	27.24	-0.14	
C. NHPC	Chamera I HPS	540	539	180	0	2.89	120	2.90	-0.01	
	Chamera II HPS	300	300	194	0	2.15	90	2.12	0.02	
	Chamera III HPS	231	231	73	0	1.24	52	1.20	0.04	
	Bairasuil HPS	180	182	0	0	0.78	32	0.74	0.04	
	Salal-HPS	690	177	150	150	4.45	186	4.50	-0.05	
	Tanakpur-HPS	94	64	60	73	1.51	63	1.54	-0.03	
	Uri-HPS	480	140	145	84	3.30	137	3.34	-0.05	
	Uri-II HPS	120	82	120	61	1.93	80	1.83	0.10	
	Dhauliganga-HPS	280	0	0	0	0.00	0	0.00	0.00	
	Dulhasti-HPS	390	387	209	0	5.31	221	5.18	0.13	
	Sewa-II HPS	120	119	72	0	0.58	24	0.58	0.00	
	Sub Total (C)	3425	2221	1203	368	24.14	1006	23.92	0.21	
	D. NJPC	Nathpa Jhakri	1500	1605	1519	163	13.84	577	13.49	0.35
Sub Total (D)		1500	1605	1519	163	13.84	577	13.49	0.35	
E. THDC	Tehri HPS	1000	1060	1002	0	6.69	279	6.50	0.19	
	Koteshwar HPS	400	92	101	91	2.12	88	2.20	-0.09	
	Sub Total (E)	1400	1152	1103	91	8.80	367	8.70	0.10	
F. BBMB	Bhakra HPS	1497	484	1018	370	12.03	501	11.61	0.42	
	Dehar HPS	990	225	470	140	5.63	235	5.40	0.23	
	Pong HPS	396	294	372	252	7.20	300	7.06	0.14	
	Sub Total (F)	2883	1003	1860	762	24.86	1036	24.08	0.78	
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	60	27	0.71	30	0.68	0.03	
	KWHEP HPS(IPP)	1000	0	899	150	7.37	307	7.01	0.36	
	Malana Stg-II HPS	100	0	107	0	0.53	22	0.48	0.06	
	Shree Cement TPS	300	0	267	271	3.81	159	3.92	-0.11	
	Budhil HPS(IPP)	70	0	26	10	0.30	12	0.30	0.00	
	Sub Total (G)	1662	0	1359	458	12.72	530	12.38	0.34	
H. Total Regional Entities (A-G)	23472	16683	17238	10969	298.25	12427	296.37	1.88		

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	600	815	16.82	701
	Guru Nanak Dev TPS(Bhatinda)	440	80	80	1.88	78
	Guru Hargobind Singh TPS(L.mbt)	920	506	501	10.88	453
	Goindwal(GVK)		0	0	0.00	0
	Thermal (Total)	2620	1186	1396	29.57	1232
	Total Hydro	1148	424	422	10.59	441
	Total Punjab	3768	1610	1818	40.16	1674
Haryana	Panipat TPS	1367	92	88	1.99	83
	DCRTPP (Yamuna nagar)	600	498	495	11.77	490
	Faridabad GPS (NTPC)	432	190	159	4.15	173
	RGTPP (khedar) (IPP)	1200	416	437	10.45	435
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	1320	1114	744	23.33	972
	Thermal (Total)	4944	2310	1923	51.68	2153
	Total Hydro	62	14	14	0.71	30
	Total Haryana	5006	2324	1937	52.39	2183
	Rajasthan	kota TPS	1240	1147	1075	25.95
suratgarh TPS		1500	1110	755	23.54	981
Chabra TPS		500	217	197	5.01	209
Dholpur GPS		330	102	101	2.48	104
Ramgarh GPS		111	71	406	2.92	122
RAPS A (NPC)		300	179	139	4.30	179
Barsingsar (NLC)		250	112	115	2.59	108
Giral LTPS		250	77	51	1.13	47
Rajwest LTPS (IPP)		1080	0	0	0.00	0
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	3015	2839	67.92	2830
Total Hydro		550	194	28	2.70	113
Wind power		2191	178	423	5.79	241
Biomass		91	26	26	0.63	26
Solar		201	0	0	0.82	34
Renewable/Others (Total)		2483	204	449	7.24	301
Total Rajasthan		9989	3413	3316	77.86	3244
UP		Anpara TPS	1630	1397	1400	33.50
	Obra TPS	1288	468	464	11.40	475
	Paricha TPS	1140	664	676	16.10	671
	Panki TPS	210	63	81	1.70	71
	Harduaganj TPS	665	230	230	5.40	225
	Tanda TPS (NTPC)	440	368	287	7.77	324
	Roza TPS (IPP)	1200	1103	1081	26.78	1116
	Anpara-C (IPP)	1200	502	533	12.56	523
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	322	338	7.37	307
	Thermal (Total)	8223	5117	5090	122.58	5108
	Vishnuparyag HPS (IPP)	400	0	0	0.00	0
	Other Hydro	527	94	93	2.21	92
	Cogeneration	981	50	50	1.20	50
	Total UP	10131	5261	5233	125.99	5250
	Uttarakhand	Total Hydro	1303	606	386	10.94
Total Uttarakhand		1303	606	386	10.94	456
Delhi	Raighat TPS	135	90	90	1.99	83
	Delhi Gas Turbine	282	80	82	1.88	78
	Pragati Gas Turbine	330	304	267	6.89	287
	Riithala GPS	95	0	0	0.00	0
	Bawana GPS	686	0	0	0.00	0
	Badarpur TPS (NTPC)	705	470	410	8.95	373
	Thermal (Total)	2232	944	849	19.71	821
	Total Delhi	2232	944	849	19.71	821
HP	Baspa HPS (IPP)	330	59	49	2.11	88
	Malana HPS (IPP)	86	87	0	0.51	21
	Other Hydro	589	295	294	6.59	275
	Total HP	1005	441	343	9.21	384
J & K	Baglihar HPS (IPP)	450	242	238	5.79	241
	Other Hydro	323	100	128	2.57	107
	Gas/Diesel/Others	183	0	0	0.00	0
	Total J & K	956	342	366	8.36	348
Total State Control Area Generation		34390	14941	14248	344.62	14359
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			2672	4978	104.11	4338
Total Regional Availability(Gross)		57862	34851	30195	746.97	31124

IV. Total Hydro Generation:

Regional Entities Hydro	10500	6751	1561	80.25	3344
State Control Area Hydro	5368	2115	1652	44.72	1863
Total Regional Hydro	15868	8866	3213	124.97	5207

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	50	200	200	1.31	0.35	0.96
Gwalior-Agra (D/C)	540	1351	1531	0	26.20	0.00	26.20
Zerda-Kankroli	-68	-55	52	165	0.00	1.90	-1.90
Zerda-Bhinmal	44	68	193	79	1.46	0.00	1.46
Malanpur-Auraiya	-95	-51	0	104	0.00	1.62	-1.62
Badod-Kota/Morak	-60	-43	0	130	0.00	1.93	-1.93
Mundra-Mohindergarh(HVDC)	1502	1498	1509	0	35.30	0.00	35.30
Sub Total WR	1913	2818			64.26	5.80	58.46
Pusauli Bypass	-100	-200	0	200	0.00	3.44	-3.44
MZP- GKP (D/C)	252	825	940	0	16.47	0.00	16.47
Patna-Balia(D/C)	258	551	644	0	12.02	0.00	12.02
B'Sharif-Balia (D/C)	288	457	598	0	10.71	0.00	10.71
Pusauli-Balia	-18	96	108	18	1.33	0.00	1.33
Gaya-Fatehpur (765 Kv)	5	336	395	0	6.29	0.00	6.29
Pusauli-Sahupuri	110	130	159	0	3.11	0.00	3.11
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-36	-35	0	36	0.00	0.85	-0.85
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	759	2160			49.94	4.29	45.65
Total IR Exch	2672	4978			114.19	10.09	104.11

V(B). Inter Regional Schedule & Actual Exchanges [Import (+ve)/Export (-ve)] [Corridor wise]

ER	ISGS/LT Schedule (MU)		Bilateral Schedule (MU)		Power Exchange Shdl (MU)		Wheeling (MU)	
	Bhutan	Total	Through ER	Through WR	Through ER	Through WR	Through ER	Through WR
35.29	2.30	37.58	8.69	-9.20	5.82	5.01	0.94	-0.94

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
53.03	49.76	102.80	45.65	58.46	104.11	-7.39	8.70	1.31

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	0.10	0.70	94.50	5.10	93.90	51.60	5.40

<----- 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				
50.34	13.07	49.46	9.18	50.00	0.15	0.12	50.30	49.82

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	414	22:51	405	08:33	0.0	0.0	0.0	0.0
Gorakhpur	400	422	05:07	408	09:16	0.0	0.0	1.9	0.0
Barailly	400	421	23:54	401	09:33	0.0	0.0	0.1	0.0
Kanpur	400	419	23:54	400	18:25	0.0	0.0	0.0	0.0
Dadri	400	422	23:53	403	18:22	0.0	0.0	1.7	0.0
Ballabgarh	400	428	03:02	409	09:32	0.0	0.0	27.2	0.0
Bawana	400	426	23:54	406	18:21	0.0	0.0	27.0	0.0
Bassi	400	426	03:59	398	06:40	0.0	0.0	18.8	0.0
Hissar	400	416	03:01	397	18:13	0.0	0.0	0.0	0.0
Moga	400	421	23:54	400	18:24	0.0	0.0	0.3	0.0
Abdullapur	400	425	00:00	408	16:00	0.0	0.0	0.0	0.0
Nalagarh	400	428	02:59	404	18:22	0.0	0.0	33.8	0.0
Kishenpur	400	430	02:59	401	18:23	0.0	0.0	21.4	0.0
Wagoora	400	424	03:49	386	18:25	0.0	3.5	5.4	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	765	10:33	728	09:28	0.0	13.6	0.0	0.0
Balia	765	763	23:54	718	18:23	0.0	49.0	0.0	0.0
Moga	765	795	03:02	757	09:32	0.0	0.0	0.0	0.0
Agra	765	812	20:17	758	09:13	0.0	0.0	17.1	0.0
Bhiwani	765	806	23:51	769	15:23	0.0	0.0	12.3	0.0
Unnao	765	762	23:54	732	18:28	0.0	15.7	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	511.05	1605.30	504.04	1272.20	268.75	296.31
Pong	426.72	384.05	420.87	931.43	420.50	916.71	78.27	406.80
Tehri	829.79	740.04	824.50	1107.95	818.65	982.26	93.47	145.00
Koteshwar	612.50	598.50	611.79	5.46	NA	NA	146.00	147.00
Chamera-I	760.00	748.75	NA	NA	NA	NA	73.81	72.80
Rihand	268.22	252.98	261.79	406.40	263.79	518.00	NA	196.65
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	518.18	520.72	520.80	144.00	81.07	130.00

* NA: Not Available

X. System Constraints:

XI. Grid Disturbance / Any Other Significant Event:

XII. Weather Conditions For 25.10.2013 :

1. Normal weather in NR.

XIII. Synchronisation of new generating units :
0.00

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

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 Mar, 2014 .

Report for : 25.10.2013

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER