

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरसिस्टम की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 19.10.2013
Date of Reporting : 20.10.2013

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
34495	2345	36840	50.15	30108	750	30858	50.14	748.1	31.97

* 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	34.51	8.88		43.39	65.95	66.79	0.84	110.18	0.00
Haryana	59.01	0.71		59.72	53.32	52.00	-1.33	111.71	0.02
Rajasthan	70.17	1.05	2.97	74.19	79.39	76.34	-3.04	150.53	0.00
Delhi	20.58			20.58	55.45	52.79	-2.67	73.37	0.01
UP	129.33	4.35	1.70	135.38	83.45	78.45	-5.00	213.83	29.03
Uttarakhand		13.16		13.16	15.90	16.49	0.59	29.65	1.32
HP		10.25		10.25	12.40	13.43	1.03	23.68	0.00
J & K		8.72	0.00	8.72	21.92	22.69	0.77	31.41	1.60
Chandigarh				0.00	3.89	3.73	-0.16	3.73	0.00
Total	313.59	47.12	4.67	365.38	391.68	382.70	-8.97	748.08	31.97

* 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	5055	0	-11	591	4354	0	16	430	14.16	
Haryana	5573	0	-276	-419	4308	0	63	-429	-13.34	
Rajasthan	7143	0	-125	1386	6087	0	-104	1425	33.43	
Delhi	3522	0	-235	-430	2590	0	-67	-809	-12.93	
UP	8967	2170	-193	-84	9539	750	-153	725	1.89	
Uttarakhand	1440	75	104	169	1108	0	-70	325	6.47	
HP	1137	0	-176	-495	818	0	116	94	-1.59	
J&K	1468	100	-178	140	1184	0	196	-49	1.57	
Chandigarh	190	0	-26	-46	120	0	-1	0	-0.15	
Total	34495	2345	-1115	813	30108	750	-5	1712	29.51	

* 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
A. NTPC	Singrauli STPS	2000	1853	1715	2095	44.45	1852	44.48	-0.03
	Rihand I STPS	1000	886	800	977	20.91	871	20.92	-0.01
	Rihand II STPS	1000	958	980	990	22.60	941	22.39	0.20
	Rihand III STPS	1000	474	493	507	11.35	473	11.37	-0.03
	Dadri I STPS	840	810	702	623	15.20	633	15.17	0.03
	Dadri II STPS	980	975	924	815	20.89	870	21.23	-0.34
	Unchahar I TPS	420	201	169	162	4.13	172	4.10	0.02
	Unchahar II TPS	420	403	308	310	7.85	327	7.73	0.11
	Unchahar III TPS	210	201	165	153	3.98	166	3.94	0.04
	ISTPP (Jhajjar)	1500	1480	623	635	14.11	588	14.21	-0.10
	Dadri GPS	830	803	557	595	13.14	547	13.25	-0.11
	Anta GPS	419	401	378	406	9.10	379	9.14	-0.03
	Auraiya GPS	663	637	156	160	3.65	152	3.70	-0.05
	Sub Total (A)	11282	10082	7970	8428	191.35	7973	191.64	-0.30
	B. NPC	NAPS	440	203	320	154	4.70	196	4.88
RAPS- B		440	405	454	455	9.82	409	9.72	0.10
RAPS- C		440	410	470	471	10.04	418	9.84	0.20
Sub Total (B)		1320	1018	1244	1080	24.55	1023	24.44	0.12
C. NHPC	Chamera I HPS	540	539	450	0	3.23	135	3.20	0.03
	Chamera II HPS	300	300	300	0	2.46	102	2.43	0.03
	Chamera III HPS	231	231	144	0	1.41	59	1.39	0.02
	Bairasuil HPS	180	122	60	0	0.88	37	0.85	0.02
	Salal-HPS	690	198	560	445	9.79	408	4.79	5.01
	Tanakpur-HPS	94	72	74	74	1.72	72	1.72	0.00
	Uri-HPS	480	151	240	44	4.14	173	4.09	0.05
	Uri-II HPS	120	84	124	62	2.26	94	1.79	0.47
	Dhauliganga-HPS	280	0	0	0	0.00	0	0.00	0.00
	Dulhasti-HPS	390	366	366	13	5.79	241	5.70	0.09
	Sewa-II HPS	120	119	79	0	0.38	16	0.37	0.01
	Sub Total (C)	3425	2181	2397	638	32.06	1336	26.33	5.72
	D. NJPC	Nathpa Jhakri	1500	1605	1510	0	13.52	563	13.50
Sub Total (D)		1500	1605	1510	0	13.52	563	13.50	0.02
E. THDC	Tehri HPS	1000	1060	1005	0	6.65	277	6.50	0.15
	Koteshwar HPS	400	92	101	90	2.21	92	2.20	0.01
	Sub Total (E)	1400	1152	1106	90	8.86	369	8.70	0.16
F. BBMB	Bhakra HPS	1497	442	1042	387	10.95	456	10.60	0.35
	Dehar HPS	990	252	470	165	5.93	247	6.05	-0.12
	Pong HPS	396	245	372	126	6.11	255	5.87	0.24
	Sub Total (F)	2883	938	1884	678	22.99	958	22.51	0.48
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	86	26	0.93	39	0.90	0.03
	KWHEP HPS(IPP)	1000	0	900	151	7.16	299	7.21	-0.05
	Malana Stg-II HPS	100	0	50	0	0.44	18	0.39	0.04
	Shree Cement TPS	300	0	128	122	2.99	125	3.38	-0.39
	Budhil HPS(IPP)	70	0	25	10	0.29	12	0.38	-0.09
	Sub Total (G)	1662	0	1189	309	11.82	492	12.26	-0.45
H. Total Regional Entities (A-G)	23472	16976	17300	11223	305.14	12714	299.39	5.76	

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	950	910	20.93	872
	Guru Nanak Dev TPS(Bhatinda)	440	226	190	4.33	180
	Guru Hargobind Singh TPS(L.mbt)	920	510	363	9.25	385
	Goindwal(GVK)		0	0	0.00	0
	Thermal (Total)	2620	1686	1463	34.51	1438
	Total Hydro	1148	398	398	8.88	370
	Total Punjab	3768	2084	1861	43.39	1808
Haryana	Panipat TPS	1367	521	504	12.20	508
	DCRTPP (Yamuna nagar)	600	559	521	12.09	504
	Faridabad GPS (NTPC)	432	193	162	4.04	168
	RGTPP (khedar) (IPP)	1200	547	436	10.99	458
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	1320	1058	701	19.69	821
	Thermal (Total)	4944	2878	2324	59.01	2459
	Total Hydro	62	29	29	0.71	29
	Total Haryana	5006	2907	2353	59.72	2488
	Rajasthan	kota TPS	1240	933	741	20.57
suratgarh TPS		1500	880	748	19.46	811
Chabra TPS		500	441	400	9.10	379
Dholpur GPS		330	107	105	2.61	109
Ramgarh GPS		111	101	42	2.04	85
RAPS A (NPC)		300	179	179	3.99	166
Barsingsar (NLC)		250	111	112	2.59	108
Giral LTPS		250	0	0	0.00	0
Rajwest LTPS (IPP)		1080	0	521	5.68	236
VSLP LTPS (IPP)		135	0	0	0.00	0
Kalisindh Thermal		600	0	0	0.00	0
Kawai(Adani)		660	601	0	4.15	173
Thermal (Total)		6956	3353	2848	70.17	2924
Total Hydro		550	46	49	1.05	44
Wind power		2191	109	171	1.89	79
Biomass		91	27	27	0.65	27
Solar		201	0	0	0.43	18
Renewable/Others (Total)		2483	136	198	2.97	124
Total Rajasthan		9989	3535	3095	74.19	3091
UP		Anpara TPS	1630	1498	1564	33.30
	Obra TPS	1288	504	529	11.00	458
	Paricha TPS	1140	713	668	14.60	608
	Panki TPS	210	0	0	0.00	0
	Harduaganj TPS	665	508	451	10.80	450
	Tanda TPS (NTPC)	440	295	300	7.35	306
	Roza TPS (IPP)	1200	779	846	22.05	919
	Anpara-C (IPP)	1200	904	1050	23.52	980
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	281	279	6.70	279
	Thermal (Total)	8223	5482	5687	129.33	5389
	Vishnuparyag HPS (IPP)	400	0	0	0.00	0
	Other Hydro	527	178	219	4.35	181
	Cogeneration	981	70	70	1.70	71
	Total UP	10131	5730	5976	135.38	5641
	Uttarakhand	Total Hydro	1303	623	524	13.16
Total Uttarakhand		1303	623	524	13.16	548
Delhi	Rajghat TPS	135	54	54	1.20	50
	Delhi Gas Turbine	282	115	118	2.74	114
	Pragati Gas Turbine	330	260	151	4.97	207
	Riithala GPS	95	0	0	0.00	0
	Bawana GPS	686	0	0	0.00	0
	Badarpur TPS (NTPC)	705	550	515	11.67	486
	Thermal (Total)	2232	979	838	20.58	857
	Total Delhi	2232	979	838	20.58	857
HP	Baspa HPS (IPP)	330	282	0	2.42	101
	Malana HPS (IPP)	86	86	0	0.52	22
	Other Hydro	589	324	283	7.31	304
	Total HP	1005	692	283	10.25	427
J & K	Baglihar HPS (IPP)	450	242	238	5.79	241
	Other Hydro	323	125	128	2.93	122
	Gas/Diesel/Others	183	0	0	0.00	0
	Total J & K	956	367	366	8.72	364
Total State Control Area Generation		34390	16917	15296	365.38	15224
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			2325	5572	101.89	4246
Total Regional Availability(Gross)		57862	36542	32091	772.42	32184

IV. Total Hydro Generation:

Regional Entities Hydro	10500	7933	1583	85.96	3582
State Control Area Hydro	5368	2333	1868	47.12	1963
Total Regional Hydro	15868	10266	3451	133.08	5545

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	200	200	300	0.69	1.18	-0.49
Gwalior-Agra (D/C)	350	1656	1656	0	27.72	0.00	27.72
Zerda-Kankroli	-99	-1	35	171	0.00	1.29	-1.29
Zerda-Bhinmal	-4	38	113	87	0.59	1.21	-0.62
Malanpur-Auraiya	-117	-42	0	131	0.00	1.65	-1.65
Badod-Kota/Morak	-57	53	53	73	0.00	0.55	-0.55
Mundra-Mohindergarh(HVDC)	1502	1499	1504	0	36.26	0.00	36.26
Sub Total WR	1525	3403			65.26	5.87	59.38
Pusauli Bypass	-200	-200	0	-200	0.00	4.82	-4.82
MZP- GKP (D/C)	354	879	929	0	17.89	0.00	17.89
Patna-Balia(D/C)	236	510	569	0	10.38	0.00	10.38
B'Sharif-Balia (D/C)	256	439	553	0	9.99	0.00	9.99
Pusauli-Balia	30	103	159	0	2.25	0.00	2.25
Gaya-Fatehpur (765 Kv)	56	360	360	0	5.18	0.00	5.18
Pusauli-Sahupuri	104	113	125	0	2.56	0.00	2.56
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-36	-35	0	36	0.00	0.92	-0.92
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	800	2169			48.25	5.74	42.51
Total IR Exch	2325	5572			113.51	11.61	101.89

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
36.25	3.40	39.65	4.39	-1.56	2.93	13.45	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
47.91	57.97	105.87	42.51	59.38	101.89	-5.39	1.42	-3.98

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	0.80	95.90	4.00	95.80	47.60	4.10

<----- Frequency (Hz) ----->				Average Frequency	Frequency Variation Index	Std. Dev.	Frequency in 15 Min Block	
Maximum		Minimum					MAX	MIN
Freq	Time	Freq	Time	Hz	(Hz)	(Hz)		
50.38	10.05	49.60	18.25	49.99	0.14	0.12	50.31	49.90

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	413	21:39	404	15:43	0.0	0.0	0.0	0.0
Gorakhpur	400	424	20:43	405	01:05	0.0	0.0	6.6	0.0
Barailly	400	420	17:32	399	09:39	0.0	0.0	0.0	0.0
Kanpur	400	419	21:32	397	08:25	0.0	0.0	0.0	0.0
Dadri	400	418	03:04	403	09:39	0.0	0.0	0.0	0.0
Ballabgarh	400	425	21:32	407	09:39	0.0	0.0	34.0	0.0
Bawana	400	422	04:12	407	09:39	0.0	0.0	4.6	0.0
Bassi	400	428	03:06	407	08:14	0.0	0.0	33.4	0.0
Hissar	400	415	04:02	399	09:44	0.0	0.0	0.0	0.0
Moga	400	422	04:12	402	09:39	0.0	0.0	4.9	0.0
Abdullapur	400	424	03:04	408	09:45	0.0	0.0	15.6	0.0
Nalagarh	400	429	03:04	409	09:43	0.0	0.0	32.6	0.0
Kishenpur	400	429	03:19	404	18:12	0.0	0.0	26.7	0.0
Wagoora	400	427	03:18	390	18:12	0.0	0.0	11.9	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	758	21:18	725	07:40	0.0	0.0	0.0	0.0
Balia	765	760	21:30	730	08:15	0.0	52.2	0.0	0.0
Moga	765	802	13:02	760	09:44	0.0	0.0	0.3	0.0
Agra	765	809	13:02	765	09:45	0.0	0.0	3.9	0.0
Bhiwani	765	806	13:02	771	09:44	0.0	0.0	2.2	0.0
Unnao	765	771	21:46	723	08:23	2.0	39.8	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	511.08	1605.30	503.84	1258.87	300.44	267.37
Pong	426.72	384.05	421.68	961.02	421.23	946.20	77.05	329.78
Tehri	829.79	740.04	824.60	1100.00	818.65	982.26	105.24	153.00
Koteshwar	612.50	598.50	610.10	4.88	NA	NA	163.00	140.00
Chamera-I	760.00	748.75	NA	NA	NA	NA	84.10	87.62
Rihand	268.22	252.98	NA	NA	NA	NA	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	518.55	144.00	520.64	144.00	89.40	117.46

* NA: Not Available

X. System Constraints:

XI. Grid Disturbance / Any Other Significant Event:

XII. Weather Conditions For 19.10.2013 :

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 : 19.10.2013

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER