

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरसिस्टम की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 18.12.2013
Date of Reporting : 19.12.2013

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
32217	2380	34597	50.08	23518	427	23945	50.17	759.9	46.46

* 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	31.50	10.63		42.13	39.61	44.91	5.30	87.04	0.00
Haryana	62.81	0.43		63.25	39.24	41.41	2.16	104.65	0.27
Rajasthan	104.91	4.81	6.26	115.98	77.86	74.46	-3.40	190.43	0.00
Delhi	18.11			18.11	43.58	41.23	-2.34	59.34	0.05
UP	129.72	2.63	14.40	146.75	73.21	73.72	0.51	220.47	42.15
Uttarakhand		10.55		10.55	19.72	20.17	0.45	30.72	2.30
HP		4.98		4.98	19.16	18.97	-0.18	23.95	0.00
J & K		6.27	0.00	6.27	31.00	33.52	2.52	39.79	1.70
Chandigarh				0.00	3.20	3.55	0.35	3.55	0.00
Total	347.05	40.30	20.66	408.00	346.57	351.93	5.36	759.93	46.46

* 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	5047	0	280	-276	2412	0	179	-357	-5.61	
Haryana	5644	0	9	-793	3737	0	186	-1331	-25.75	
Rajasthan	4083	0	-313	978	3265	0	-86	1490	33.80	
Delhi	2892	0	-22	-600	1105	2	-72	-1256	-19.39	
UP	10020	2205	58	-303	9496	425	260	-159	-5.25	
Uttarakhand	1545	75	-52	425	1090	0	-5	360	8.76	
HP	1173	0	-57	264	715	0	-27	379	7.60	
J&K	1621	100	-224	631	1611	0	67	515	10.25	
Chandigarh	192	0	7	0	87	0	14	-25	-0.20	
Total	32217	2380	-314	325	23518	427	515	-385	4.21	

* 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	1945	2091	1765	45.54	1897	45.14	0.40
	Rihand I STPS	1000	847	971	687	19.38	807	19.03	0.35
	Rihand II STPS	1000	930	1047	737	21.36	890	20.94	0.42
	Rihand III STPS	1000	460	521	333	10.49	437	10.29	0.21
	Dadri I STPS	840	815	651	453	12.90	538	13.05	-0.14
	Dadri II STPS	980	985	975	732	20.70	863	20.95	-0.24
	Unchahar I TPS	420	407	413	341	8.69	362	8.64	0.05
	Unchahar II TPS	420	404	376	307	8.19	341	8.12	0.06
	Unchahar III TPS	210	201	184	153	4.08	170	4.05	0.03
	ISTPP (Jhajjar)	1500	1449	621	607	13.58	566	13.97	-0.39
	Dadri GPS	830	835	396	373	9.05	377	9.42	-0.37
	Anta GPS	419	426	264	262	6.33	264	6.60	-0.27
	Auraiya GPS	663	665	162	157	3.81	159	3.82	-0.01
	Sub Total (A)	11282	10369	8672	6907	184.11	7671	184.02	0.09
	B. NPC	NAPS	440	322	357	362	7.76	323	7.74
RAPS- B		440	420	457	462	10.09	420	10.08	0.01
RAPS- C		440	430	472	477	10.23	426	10.32	-0.09
Sub Total (B)		1320	1172	1286	1301	28.08	1170	28.14	-0.06
C. NHPC	Chamera I HPS	540	360	360	0	1.68	70	1.65	0.03
	Chamera II HPS	300	300	300	0	1.03	43	1.12	-0.09
	Chamera III HPS	231	231	77	0	0.69	29	0.67	0.02
	Bairasuil HPS	180	182	10	0	0.42	17	0.46	-0.04
	Salal-HPS	690	120	222	136	2.79	116	2.88	-0.09
	Tanakpur-HPS	94	29	26	32	0.71	29	0.70	0.01
	Uri-HPS	480	92	220	43	2.30	96	2.30	0.01
	Uri-II HPS	120	55	101	40	1.31	54	1.32	-0.01
	Dhauliganga-HPS	280	0	0	0	0.00	0	0.00	0.00
	Dulhasti-HPS	390	387	407	0	2.69	112	2.62	0.07
	Sewa-II HPS	120	119	80	0	0.38	16	0.36	0.02
	Sub Total (C)	3425	1875	1803	251	13.98	583	14.07	-0.09
	D. NJPC	Nathpa Jhakri	1500	1350	1067	0	8.00	333	7.50
Sub Total (D)		1500	1350	1067	0	8.00	333	7.50	0.50
E. THDC	Tehri HPS	1000	1060	657	0	6.92	288	6.80	0.12
	Koteshwar HPS	400	108	202	90	2.66	111	2.63	0.03
	Sub Total (E)	1400	1168	859	90	9.58	399	9.43	0.15
F. BBMB	Bhakra HPS	1497	714	909	511	17.33	722	17.13	0.20
	Dehar HPS	990	106	330	0	2.69	112	2.56	0.14
	Pong HPS	396	321	372	180	7.90	329	7.71	0.19
	Sub Total (F)	2883	1141	1611	691	27.92	1163	27.39	0.53
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	0	0	0.51	21	0.49	0.02
	KWHEP HPS(IPP)	1000	0	348	0	3.98	166	3.95	0.02
	Malana Stg-II HPS	100	0	0	0	0.00	0	0.17	-0.17
	Shree Cement TPS	300	0	265	150	5.46	228	5.46	0.00
	Budhil HPS(IPP)	70	0	0	0	0.00	0	0.00	0.00
	Sub Total (G)	1662	0	613	150	9.95	414	10.08	-0.13
H. Total Regional Entities (A-G)	23472	17076	15911	9390	281.62	11734	280.64	0.98	

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	835	600	15.99	666
	Guru Nanak Dev TPS(Bhatinda)	440	340	250	6.04	252
	Guru Hargobind Singh TPS(L.mbt)	920	637	473	9.48	395
	Goindwal(GVK)		0	0	0.00	0
	Thermal (Total)	2620	1812	1323	31.50	1313
	Total Hydro	1148	450	429	10.63	443
Total Punjab	3768	2262	1752	42.13	1755	
Haryana	Panipat TPS	1367	842	782	18.69	779
	DCRTPP (Yamuna nagar)	600	563	515	12.10	504
	Faridabad GPS (NTPC)	432	0	0	0.00	0
	RGTPP (khedar) (IPP)	1200	579	459	11.01	459
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	1320	1174	744	21.01	875
	Thermal (Total)	4944	3158	2500	62.81	2617
	Total Hydro	62	17	19	0.43	18
	Total Haryana	5006	3175	2519	63.25	2635
	Rajasthan	kota TPS	1240	1143	1136	26.29
suratgarh TPS		1500	1088	1083	25.04	1043
Chabra TPS		500	660	623	15.64	652
Dholpur GPS		330	109	109	2.74	114
Ramgarh GPS		111	125	130	3.46	144
RAPS A (NPC)		300	175	175	4.03	168
Barsingsar (NLC)		250	218	222	5.16	215
Giral LTPS		250	59	59	1.06	44
Rajwest LTPS (IPP)		1080	354	353	8.26	344
VSLP LTPS (IPP)		135	0	0	0.00	0
Kalisindh Thermal		600	0	0	0.00	0
Kawai(Adani)		660	480	595	13.24	552
Thermal (Total)		6956	4411	4485	104.91	4371
Total Hydro		550	265	151	4.81	200
Wind power		2191	252	44	5.08	212
Biomass		91	17	17	0.40	17
Solar		201	8	0	0.78	32
Renewable/Others (Total)		2483	269	61	6.26	261
Total Rajasthan		9989	4945	4697	115.98	4832
UP		Anpara TPS	1630	1563	1608	34.20
	Obra TPS	1288	340	331	7.50	313
	Paricha TPS	1140	933	939	19.90	829
	Panki TPS	210	0	75	0.70	29
	Harduaganj TPS	665	248	504	10.10	421
	Tanda TPS (NTPC)	440	397	400	9.62	401
	Roza TPS (IPP)	1200	810	603	16.00	667
	Anpara-C (IPP)	1200	1079	1054	24.18	1008
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	403	283	7.52	313
	Thermal (Total)	8223	5773	5797	129.72	5405
	Vishnuparyag HPS (IPP)	400	0	0	0.00	0
	Other Hydro	527	101	103	2.63	110
	Cogeneration	981	600	600	14.40	600
	Total UP	10131	6474	6500	146.75	6115
	Uttarakhand	Total Hydro	1303	633	331	10.55
Total Uttarakhand		1303	633	331	10.55	440
Delhi	Rajghat TPS	135	0	0	0.00	0
	Delhi Gas Turbine	282	83	82	1.98	82
	Pragati Gas Turbine	330	313	266	7.06	294
	Riithala GPS	95	0	0	0.00	0
	Bawana GPS	686	0	0	0.00	0
	Badarpur TPS (NTPC)	705	395	440	9.07	378
	Thermal (Total)	2232	791	788	18.11	754
Total Delhi	2232	791	788	18.11	754	
HP	Baspa HPS (IPP)	330	30	0	1.19	49
	Malana HPS (IPP)	86	0	0	0.18	8
	Other Hydro	589	203	121	3.61	151
	Total HP	1005	233	121	4.98	207
J & K	Baglihar HPS (IPP)	450	297	118	3.73	155
	Other Hydro	323	102	120	2.54	106
	Gas/Diesel/Others	183	0	0	0.00	0
	Total J & K	956	399	238	6.27	261
Total State Control Area Generation		34390	18912	16946	408.00	17000
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			3151	2864	84.81	3534
Total Regional Availability(Gross)		57862	37974	29200	774.43	32268

IV. Total Hydro Generation:

Regional Entities Hydro	10500	5688	1032	63.97	2665
State Control Area Hydro	5368	2098	1392	40.30	1679
Total Regional Hydro	15868	7786	2424	104.26	4344

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	
Vindhychal B/B	-150	-200	0	200	0.00	3.79	-3.79
Gwalior-Agra (D/C)	1061	1056	1446	0	25.91	0.00	25.91
Zerda-Kankroli	-34	-142	81	158	0.00	0.86	-0.86
Zerda-Bhinmal	64	-23	212	70	1.64	0.00	1.64
Malanpur-Auraiya	-123	-105	0	152	0.00	2.79	-2.79
Badod-Kota/Morak	-55	-173	0	184	0.00	2.52	-2.52
Mundra-Mohindergarh(HVDC)	1450	1167	1651	0	32.58	0.00	32.58
Sub Total WR	2213	1580			60.13	9.96	50.17
Pusauli Bypass	-383	-341	0	434	0.00	7.24	-7.24
MZP- GKP (D/C)	252	333	525	0	8.08	0.00	8.08
Patna-Balia(D/C)	301	563	735	0	12.54	0.00	12.54
B'Sharif-Balia (D/C)	213	213	429	0	5.92	0.00	5.92
Pusauli-Balia	-24	-15	0	52	0.00	0.54	-0.54
Gaya-Fatehpur (765 Kv)	103	108	381	104	3.44	0.00	3.44
Pusauli-Sahupuri	186	127	186	0	3.57	0.00	3.57
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-32	-30	0	37	0.00	0.84	-0.84
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sasaram - Fatehpur(765 KV)	322	326	573		9.70	0.00	9.70
Sub Total ER	938	1284			43.25	8.61	34.64
Total IR Exch	3151	2864			103.38	18.57	84.81

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
30.82	0.36	31.17	13.42	-16.95	9.47	-7.88	4.22	-4.22

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
58.28	25.15	83.43	34.64	50.17	84.81	-23.65	25.02	1.38

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	94.90	2.90	94.10	47.70	5.10

<----- 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				
50.38	5.00	49.55	6.57	50.00	0.14	0.12	50.31	49.78

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	03:15	401	14:48	0.0	0.0	0.0	0.0
Gorakhpur	400	431	23:06	407	15:38	0.0	0.0	45.0	1.2
Barailly	400	424	23:19	394	00:53	0.0	0.0	5.2	0.0
Kanpur	400	421	03:12	298	23:58	1.0	1.0	0.9	0.0
Dadri	400	423	04:03	400	14:48	0.0	0.0	8.7	0.0
Ballabgarh	400	428	03:15	403	09:48	0.0	0.0	32.9	0.0
Bawana	400	422	04:03	401	15:20	0.0	0.0	5.8	0.0
Bassi	400	420	20:42	381	11:14	0.0	23.6	0.0	0.0
Hissar	400	409	20:43	388	15:22	0.0	2.1	0.0	0.0
Moga	400	415	20:44	387	09:36	0.0	0.8	0.0	0.0
Abdullapur	400	421	20:42	401	09:56	0.0	0.0	0.3	0.0
Nalagarh	400	422	21:00	394	15:48	0.0	0.0	0.1	0.0
Kishenpur	400	416	13:02	389	09:33	0.0	0.1	0.0	0.0
Wagoora	400	408	13:02	369	18:23	43.7	82.7	0.0	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	777	03:15	726	10:23	0.1	15.0	0.0	0.0
Balia	765	768	19:39	716	15:24	4.7	27.0	0.0	0.0
Moga	765	776	20:41	721	09:38	0.8	21.7	0.0	0.0
Agra	765	811	03:13	755	00:07	0.0	0.0	26.3	0.0
Bhiwani	765	774	22:41	743	09:55	0.0	0.0	0.0	0.0
Unnao	765	776	23:54	723	14:48	1.9	25.0	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	504.44	1285.56	497.24	983.40	175.62	504.58
Pong	426.72	384.05	414.00	633.63	412.59	588.94	67.82	483.03
Tehri	829.79	740.04	816.80	938.25	818.65	982.26	66.30	155.00
Koteshwar	612.50	598.50	609.50	4.44	NA	NA	155.00	177.00
Chamera-I	760.00	748.75	NA	NA	NA	NA	44.01	44.01
Rihand	268.22	252.98	261.31	378.10	262.34	439.10	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	513.26	144.00	518.91	144.00	46.50	123.04

* NA: Not Available

X. System Constraints:

XI. Grid Disturbance / Any Other Significant Event:

XII. Weather Conditions For 18.12.2013 :

1. As reported , dense Fog persist in some part of northern region.

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 : 18.12.2013

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER