

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरसिस्टम की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 17.12.2013
Date of Reporting : 18.12.2013

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
37900	2912	40812	50.13	27965	430	28395	50.23	770.5	40.93

* 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	37.73	10.20		47.93	41.47	44.63	3.16	92.56	0.00
Haryana	60.63	0.45		61.09	42.70	43.91	1.21	104.99	0.19
Rajasthan	104.59	5.56	6.83	116.97	81.20	79.85	-1.35	196.82	0.00
Delhi	12.13			12.13	46.12	45.95	-0.17	58.08	0.07
UP	127.64	2.86	14.40	144.91	75.75	74.71	-1.04	219.62	36.52
Uttarakhand		10.72		10.72	18.74	20.25	1.52	30.97	2.42
HP		4.92		4.92	18.98	19.46	0.48	24.38	0.04
J & K		5.21	0.00	5.21	30.61	34.41	3.80	39.62	1.70
Chandigarh				0.00	3.22	3.44	0.23	3.44	0.00
Total	342.73	39.92	21.23	403.88	358.77	366.60	7.83	770.48	40.93

* 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	5031	0	281	-264	3023	0	174	-331	-3.17	
Haryana	6089	21	138	-711	3727	0	27	-972	-22.18	
Rajasthan	8349	0	-244	1378	7125	0	-22	1687	34.31	
Delhi	3144	0	176	-400	1306	0	-95	-1203	-17.65	
UP	10396	2715	120	-318	9312	430	525	-174	-3.40	
Uttarakhand	1609	75	53	377	1101	0	67	311	7.67	
HP	1222	1	31	264	735	0	-11	359	7.38	
J&K	1873	100	-13	631	1552	0	36	515	9.98	
Chandigarh	188	0	15	0	84	0	-2	-15	-0.20	
Total	37900	2912	557	956	27965	430	698	178	12.74	

* 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	2095	1744	45.94	1914	45.68	0.26
	Rihand I STPS	1000	847	989	745	19.62	817	19.51	0.11
	Rihand II STPS	1000	930	1048	756	21.48	895	21.39	0.09
	Rihand III STPS	1000	460	519	389	10.66	444	10.61	0.05
	Dadri I STPS	840	815	655	465	12.80	533	13.05	-0.25
	Dadri II STPS	980	985	961	716	20.73	864	21.07	-0.34
	Unchahar I TPS	420	407	422	351	9.03	376	9.11	-0.08
	Unchahar II TPS	420	404	420	310	8.58	357	8.57	0.01
	Unchahar III TPS	210	201	197	153	4.29	179	4.32	-0.04
	ISTPP (Jhajjar)	1500	1480	628	617	15.05	627	15.18	-0.13
	Dadri GPS	830	834	398	411	8.98	374	9.15	-0.17
	Anta GPS	419	432	270	260	6.14	256	6.18	-0.04
	Auraiya GPS	663	666	136	160	3.65	152	3.56	0.08
	Sub Total (A)	11282	10406	8738	7077	186.93	7789	187.39	-0.45
	B. NPC	NAPS	440	322	356	364	7.73	322	6.05
RAPS- B		440	420	459	465	10.03	418	10.08	-0.05
RAPS- C		440	430	474	474	10.19	425	10.32	-0.13
Sub Total (B)		1320	1172	1289	1303	27.95	1165	26.45	1.50
C. NHPC	Chamera I HPS	540	360	360	0	1.74	72	1.70	0.04
	Chamera II HPS	300	300	180	0	1.26	53	1.23	0.03
	Chamera III HPS	231	231	135	0	0.65	27	0.67	-0.02
	Bairasuil HPS	180	182	10	0	0.43	18	0.46	-0.03
	Salal-HPS	690	120	205	33	2.58	108	2.88	-0.30
	Tanakpur-HPS	94	30	27	27	0.73	31	0.73	0.01
	Uri-HPS	480	93	212	32	2.23	93	2.48	-0.25
	Uri-II HPS	120	60	81	40	1.37	57	1.44	-0.07
	Dhauliganga-HPS	280	0	0	0	0.00	0	0.00	0.00
	Dulhasti-HPS	390	309	309	0	2.68	112	2.56	0.11
	Sewa-II HPS	120	80	40	0	0.26	11	0.25	0.01
	Sub Total (C)	3425	1765	1559	132	13.93	580	14.40	-0.48
	D. NJPC	Nathpa Jhakri	1500	1283	1083	0	7.93	330	7.53
Sub Total (D)		1500	1283	1083	0	7.93	330	7.53	0.39
E. THDC	Tehri HPS	1000	1060	656	0	7.29	304	7.30	-0.01
	Koteshwar HPS	400	104	99	90	2.52	105	2.50	0.02
	Sub Total (E)	1400	1164	755	90	9.82	409	9.80	0.02
F. BBMB	Bhakra HPS	1497	761	1019	664	18.35	765	18.27	0.08
	Dehar HPS	990	125	330	0	3.13	130	3.01	0.12
	Pong HPS	396	322	372	180	7.90	329	7.72	0.18
	Sub Total (F)	2883	1208	1721	844	29.38	1224	29.00	0.38
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	0	0	0.51	21	0.49	0.02
	KWHEP HPS(IPP)	1000	0	169	0	3.94	164	3.93	0.01
	Malana Stg-II HPS	100	0	0	0	0.00	0	0.00	0.00
	Shree Cement TPS	300	0	281	150	5.47	228	5.49	-0.02
	Budhil HPS(IPP)	70	0	0	0	0.00	0	0.00	0.00
	Sub Total (G)	1662	0	450	150	9.92	413	9.91	0.01
H. Total Regional Entities (A-G)	23472	16998	15595	9596	285.85	11910	284.48	1.36	

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	840	630	14.97	624
	Guru Nanak Dev TPS(Bhatinda)	440	340	250	5.72	238
	Guru Hargobind Singh TPS(L.mbt)	920	941	677	17.04	710
	Goindwal(GVK)		0	0	0.00	0
	Thermal (Total)	2620	2121	1557	37.73	1572
	Total Hydro	1148	476	443	10.20	425
Total Punjab		3768	2597	2000	47.93	1997
Haryana	Panipat TPS	1367	831	777	18.77	782
	DCRTPP (Yamuna nagar)	600	536	504	12.23	509
	Faridabad GPS (NTPC)	432	0	0	0.00	0
	RGTPP (khedar) (IPP)	1200	590	507	12.06	502
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	1320	1114	744	17.58	733
	Thermal (Total)	4944	3071	2532	60.63	2526
	Total Hydro	62	16	20	0.45	19
	Total Haryana	5006	3087	2552	61.09	2545
	Rajasthan	kota TPS	1240	951	1101	23.78
suratgarh TPS		1500	1093	1029	25.86	1078
Chabra TPS		500	651	587	14.39	599
Dholpur GPS		330	108	110	2.72	113
Ramgarh GPS		111	130	127	3.48	145
RAPS A (NPC)		300	175	175	4.02	168
Barsingsar (NLC)		250	222	221	5.21	217
Giral LTPS		250	59	59	1.18	49
Rajwest LTPS (IPP)		1080	475	386	10.38	432
VSLP LTPS (IPP)		135	0	0	0.00	0
Kalisindh Thermal		600	0	0	0.00	0
Kawai(Adani)		660	599	466	13.57	566
Thermal (Total)		6956	4463	4261	104.59	4358
Total Hydro		550	275	106	5.56	232
Wind power		2191	16	33	0.38	16
Biomass		91	18	18	0.43	18
Solar		201	6	0	0.46	19
Renewable/Others (Total)		2483	34	51	6.83	284
Total Rajasthan		9989	4772	4418	116.97	4874
UP		Anpara TPS	1630	1425	1361	32.70
	Obra TPS	1288	301	301	7.50	313
	Paricha TPS	1140	868	782	19.30	804
	Panki TPS	210	63	68	1.60	67
	Harduaganj TPS	665	445	444	10.70	446
	Tanda TPS (NTPC)	440	395	397	9.80	408
	Roza TPS (IPP)	1200	810	594	15.51	646
	Anpara-C (IPP)	1200	1073	977	23.55	981
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	401	283	6.98	291
	Thermal (Total)	8223	5781	5207	127.64	5319
	Vishnuparyag HPS (IPP)	400	0	0	0.00	0
	Other Hydro	527	139	123	2.86	119
	Cogeneration	981	600	600	14.40	600
	Total UP	10131	6520	5930	144.91	6038
	Uttarakhand	Total Hydro	1303	641	335	10.72
Total Uttarakhand		1303	641	335	10.72	447
Delhi	Raighat TPS	135	0	0	0.00	0
	Delhi Gas Turbine	282	83	82	2.00	83
	Pragati Gas Turbine	330	247	161	3.83	160
	Riithala GPS	95	0	0	0.00	0
	Bawana GPS	686	0	0	0.00	0
	Badarpur TPS (NTPC)	705	310	260	6.30	263
	Thermal (Total)	2232	640	503	12.13	506
	Total Delhi	2232	640	503	12.13	506
HP	Baspa HPS (IPP)	330	25	0	1.27	53
	Malana HPS (IPP)	86	0	0	0.17	7
	Other Hydro	589	215	115	3.48	145
	Total HP	1005	240	115	4.92	205
J & K	Baglihar HPS (IPP)	450	94	118	2.67	111
	Other Hydro	323	102	120	2.54	106
	Gas/Diesel/Others	183	0	0	0.00	0
	Total J & K	956	196	238	5.21	217
Total State Control Area Generation		34390	18693	16091	403.88	16828
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			3401	3110	90.07	3753
Total Regional Availability(Gross)		57862	37689	28797	779.80	32492

IV. Total Hydro Generation:

Regional Entities Hydro	10500	5287	1066	65.49	2729
State Control Area Hydro	5368	1983	1380	39.92	1664
Total Regional Hydro	15868	7270	2446	105.42	4392

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	100	100	200	200	1.40	1.49	-0.09
Gwalior-Agra (D/C)	928	1162	1533	0	28.26	0.00	28.26
Zerda-Kankroli	-25	-211	119	259	0.00	0.72	-0.72
Zerda-Bhinmal	79	-94	238	170	1.85	0.00	1.85
Malanpur-Auraiya	-133	-111	0	137	0.00	2.87	-2.87
Badod-Kota/Morak	-60	-148	0	199	0.00	2.15	-2.15
Mundra-Mohindergarh(HVDC)	1700	1400	1705	0	37.97	0.00	37.97
Sub Total WR	2589	2098			69.48	7.23	62.25
Pusauli Bypass	-462	-224	0	472	0.00	6.29	-6.29
MZP- GKP (D/C)	250	290	531	0	6.99	0.00	6.99
Patna-Balia(D/C)	568	510	840	0	14.03	0.00	14.03
B'Sharif-Balia (D/C)	281	188	451	0	5.87	0.00	5.87
Pusauli-Balia	27	19	62	0	0.45	0.00	0.45
Gaya-Fatehpur (765 Kv)	78	113	329	0	3.71	0.00	3.71
Pusauli-Sahupuri	102	146	174	0	3.90	0.00	3.90
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)	0	0	0	0	0.00	0.00	0.00
Sub Total ER	812	1012			34.95	7.13	27.82
Total IR Exch	3401	3110			104.43	14.36	90.07

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
28.93	0.47	29.39	13.18	-17.58	9.65	1.30	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
56.45	35.49	91.94	27.82	62.25	90.07	-28.63	26.76	-1.87

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	0.40	92.20	4.30	91.80	55.00	7.80

<----- 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)		
50.42	0.02	49.59	17.42	50.02	0.17	0.13	50.37	49.87

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	411	04:04	400	06:39	0.0	0.0	0.0	0.0
Gorakhpur	400	428	21:00	407	16:39	0.0	0.0	45.4	0.0
Barailly	400	422	20:18	394	07:13	0.0	0.0	2.5	0.0
Kanpur	400	422	04:02	373	01:22	0.1	0.1	0.8	0.0
Dadri	400	426	04:02	400	12:18	0.0	0.0	12.3	0.0
Ballabgarh	400	433	04:02	404	09:25	0.0	0.0	35.0	1.7
Bawana	400	428	04:01	403	09:25	0.0	0.0	24.0	0.0
Bassi	400	421	20:05	384	09:27	0.0	14.1	0.7	0.0
Hissar	400	416	04:02	388	09:25	0.0	1.0	0.0	0.0
Moga	400	420	00:24	387	09:22	0.0	1.3	0.0	0.0
Abdullapur	400	423	04:02	402	18:07	0.0	0.0	2.5	0.0
Nalagarh	400	425	20:53	400	16:37	0.0	0.0	16.4	0.0
Kishenpur	400	427	00:24	387	09:22	0.0	0.9	0.2	0.0
Wagoora	400	419	00:25	361	22:03	33.4	80.2	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	775	20:10	731	14:40	0.0	24.8	0.0	0.0
Balia	765	763	04:03	727	15:24	0.6	34.8	0.0	0.0
Moga	765	788	04:02	717	09:26	3.2	5.7	0.0	0.0
Agra	765	817	04:04	760	09:28	0.0	0.0	23.7	0.0
Bhivani	765	782	19:29	754	12:18	0.0	0.0	0.0	0.0
Unnao	765	766	04:04	728	14:28	0.0	40.9	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	505.29	1325.82	497.66	1006.54	189.33	558.78
Pong	426.72	384.05	414.72	668.52	413.14	600.05	69.18	470.94
Tehri	829.79	740.04	817.60	955.00	818.65	982.26	43.99	144.00
Koteshwar	612.50	598.50	610.10	4.60	NA	NA	145.00	148.00
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 17.12.2013 :

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 : 17.12.2013

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER