

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरसिस्टम की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 14.11.2013
Date of Reporting : 15.11.2013

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
32562	2213	34775	50.06	26671	1510	28181	50.10	705.4	49.97

* 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	26.53	12.70		39.23	42.99	44.81	1.81	84.04	0.00
Haryana	53.12	0.62		53.74	40.04	42.05	2.01	95.79	1.69
Rajasthan	93.30	4.95	8.70	106.95	71.96	67.45	-4.51	174.40	0.00
Delhi	15.40			15.40	42.90	41.25	-1.65	56.65	0.00
UP	124.47	3.02	1.20	128.69	73.92	73.22	-0.69	201.91	44.10
Uttarakhand		9.60		9.60	17.67	19.56	1.89	29.16	2.69
HP		6.91		6.91	15.38	16.93	1.55	23.85	0.00
J & K		7.77	0.00	7.77	28.25	28.59	0.34	36.36	1.50
Chandigarh				0.00	3.10	3.27	0.17	3.27	0.00
Total	312.83	45.58	9.90	368.30	336.21	337.13	0.92	705.43	49.97

* 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 (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	4066	0	85	-382	2952	0	145	-71	-0.87	
Haryana	4692	458	205	-968	3559	0	54	-997	-25.32	
Rajasthan	7626	0	-131	560	6716	0	-148	683	29.89	
Delhi	2782	0	-322	-657	1370	0	-146	-1011	-18.15	
UP	8743	1580	-593	-203	8750	1510	280	-222	-6.38	
Uttarakhand	1567	75	173	295	1050	0	86	341	7.54	
HP	1189	0	49	-293	769	0	97	138	1.74	
J&K	1717	100	-50	374	1417	0	20	309	7.09	
Chandigarh	1860	0	10	0	88	0	-7	0	-0.01	
Total	32562	2213	-574	-1273	26671	1510	381	-830	-4.49	

* 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	1871	1993	2054	44.91	1871	44.90	0.01	
	Rihand I STPS	1000	727	964	756	17.59	733	17.36	0.24	
	Rihand II STPS	1000	742	1037	754	17.90	746	17.70	0.20	
	Rihand III STPS	1000	411	510	426	9.95	415	9.87	0.08	
	Dadri I STPS	840	812	854	490	14.40	600	13.36	1.04	
	Dadri II STPS	980	980	1030	719	21.78	908	21.93	-0.15	
	Unchahar I TPS	420	405	432	375	9.46	394	9.54	-0.08	
	Unchahar II TPS	420	404	442	310	9.18	382	9.16	0.01	
	Unchahar III TPS	210	201	217	154	4.58	191	4.59	-0.01	
	ISTPP (Jhajjar)	1500	1480	825	623	17.10	713	17.03	0.07	
	Dadri GPS	830	818	595	507	13.53	564	13.79	-0.26	
	Anta GPS	419	414	270	253	6.42	267	6.41	0.01	
	Auraiya GPS	663	493	322	306	7.50	312	7.66	-0.17	
	Sub Total (A)	11282	9759	9491	7727	194.29	8096	193.32	0.97	
	B. NPC	NAPS	440	315	354	357	7.62	318	7.56	0.06
		RAPS- B	440	417	460	460	10.07	419	10.01	0.06
RAPS- C		440	430	474	477	10.23	426	10.32	-0.09	
Sub Total (B)		1320	1162	1288	1294	27.91	1163	27.89	0.03	
C. NHPC	Chamera I HPS	540	540	540	0	2.62	109	2.50	0.12	
	Chamera II HPS	300	300	297	0	1.61	67	1.57	0.04	
	Chamera III HPS	231	231	117	0	0.96	40	0.86	0.10	
	Bairasuil HPS	180	182	20	0	0.68	28	0.49	0.19	
	Salal-HPS	690	173	264	230	4.32	180	4.16	0.16	
	Tanakpur-HPS	94	39	44	40	1.01	42	0.94	0.07	
	Uri-HPS	480	130	222	43	3.38	141	3.36	0.02	
	Uri-II HPS	120	65	60	45	1.52	63	1.57	-0.05	
	Dhauliganga-HPS	280	0	0	0	0.00	0	0.00	0.00	
	Dulhasti-HPS	390	387	298	0	3.42	143	3.30	0.12	
	Sewa-II HPS	120	119	122	0	0.41	17	0.38	0.03	
	Sub Total (C)	3425	2165	1984	358	19.92	830	19.13	0.79	
D. NJPC	Nathpa Jhakri	1500	1605	1421	0	9.59	399	9.32	0.26	
	Sub Total (D)	1500	1605	1421	0	9.59	399	9.32	0.26	
E. THDC	Tehri HPS	1000	1060	924	0	6.42	267	6.20	0.22	
	Koteshwar HPS	400	92	100	91	2.24	93	2.20	0.04	
	Sub Total (E)	1400	1152	1024	91	8.65	361	8.40	0.25	
F. BBMB	Bhakra HPS	1497	576	921	373	14.42	601	13.83	0.59	
	Dehar HPS	990	144	330	0	3.84	160	3.47	0.38	
	Pong HPS	396	229	312	120	5.70	238	5.49	0.21	
	Sub Total (F)	2883	950	1563	493	23.96	998	22.79	1.17	
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	48	0	0.62	26	0.59	0.03	
	KWHEP HPS(IPP)	1000	0	500	0	5.30	221	5.28	0.02	
	Malana Stg-II HPS	100	0	0	0	0.00	0	0.00	0.00	
	Shree Cement TPS	300	0	0	84	0.63	26	1.44	-0.81	
	Budhil HPS(IPP)	70	0	0	0	0.00	0	0.00	0.00	
	Sub Total (G)	1662	0	548	84	6.55	273	7.31	-0.77	
H. Total Regional Entities (A-G)	23472	16793	17319	10047	290.88	12120	288.17	2.70		

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	630	450	13.15	548
	Guru Nanak Dev TPS(Bhatinda)	440	120	90	2.44	102
	Guru Hargobind Singh TPS(L.mbt)	920	504	500	10.95	456
	Goindwal(GVK)		0	0	0.00	0
	Thermal (Total)	2620	1254	1040	26.53	1106
	Total Hydro	1148	618	418	12.70	529
	Total Punjab	3768	1872	1458	39.23	1635
Haryana	Panipat TPS	1367	229	211	5.37	224
	DCRTPP (Yamuna nagar)	600	571	500	12.68	528
	Faridabad GPS (NTPC)	432	192	165	4.27	178
	RGTPP (khedar) (IPP)	1200	0	464	6.54	273
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	1320	941	701	24.25	1011
	Thermal (Total)	4944	1933	2041	53.12	2213
	Total Hydro	62	28	23	0.62	26
	Total Haryana	5006	1961	2064	53.74	2239
	Rajasthan	kota TPS	1240	1151	1092	27.26
suratgarh TPS		1500	1137	1024	25.50	1063
Chabra TPS		500	458	325	10.07	420
Dholpur GPS		330	128	128	3.18	133
Ramgarh GPS		111	160	153	3.88	162
RAPS A (NPC)		300	175	180	3.99	166
Barsingsar (NLC)		250	221	224	5.25	219
Giral LTPS		250	0	22	0.30	12
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	607	444	13.87	578
Thermal (Total)		6956	4037	3592	93.30	3888
Total Hydro		550	145	200	4.95	206
Wind power		2191	212	381	7.30	304
Biomass		91	26	26	0.63	26
Solar		201	0	0	0.77	32
Renewable/Others (Total)		2483	238	407	8.70	362
Total Rajasthan		9989	4420	4199	106.95	4456
UP		Anpara TPS	1630	830	821	19.30
	Obra TPS	1288	457	455	10.50	438
	Paricha TPS	1140	687	732	17.30	721
	Panki TPS	210	72	77	1.70	71
	Harduaganj TPS	665	461	437	10.70	446
	Tanda TPS (NTPC)	440	399	402	9.80	408
	Roza TPS (IPP)	1200	1098	1080	26.45	1102
	Anpara-C (IPP)	1200	799	816	19.30	804
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	405	402	9.43	393
	Thermal (Total)	8223	5208	5222	124.47	5186
	Vishnuparyag HPS (IPP)	400	0	0	0.00	0
	Other Hydro	527	137	175	3.02	126
	Cogeneration	981	50	50	1.20	50
	Total UP	10131	5395	5447	128.69	5362
	Uttarakhand	Total Hydro	1303	505	233	9.60
Total Uttarakhand		1303	505	233	9.60	400
Delhi	Rajghat TPS	135	0	0	0.00	0
	Delhi Gas Turbine	282	84	81	1.90	79
	Pragati Gas Turbine	330	316	261	7.20	300
	Riithala GPS	95	0	0	0.00	0
	Bawana GPS	686	0	0	0.00	0
	Badarpur TPS (NTPC)	705	310	250	6.30	263
	Thermal (Total)	2232	710	592	15.40	642
	Total Delhi	2232	710	592	15.40	642
HP	Baspa HPS (IPP)	330	57	0	1.65	69
	Malana HPS (IPP)	86	0	0	0.32	13
	Other Hydro	589	211	167	4.94	206
	Total HP	1005	268	167	6.91	288
J & K	Baglihar HPS (IPP)	450	294	144	5.30	221
	Other Hydro	323	86	119	2.48	103
	Gas/Diesel/Others	183	0	0	0.00	0
	Total J & K	956	380	263	7.77	324
Total State Control Area Generation		34390	15511	14423	368.30	15346
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			1897	3032	63.04	2627
Total Regional Availability(Gross)		57862	34727	27502	722.21	30092

IV. Total Hydro Generation:

Regional Entities Hydro	10500	6540	942	68.04	2835
State Control Area Hydro	5368	2081	1479	45.58	1899
Total Regional Hydro	15868	8621	2421	113.62	4734

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	-500	-500	0	500	0.00	11.51	-11.51
Gwalior-Agra (D/C)	336	710	1057	0	11.02	0.00	11.02
Zerda-Kankroli	-243	-249	0	365	0.00	5.76	-5.76
Zerda-Bhinmal	-130	-119	36	287	0.00	2.60	-2.60
Malanpur-Auraiya	-184	-119	0	210	0.00	4.06	-4.06
Badod-Kota/Morak	-78	-129	0	217	0.00	2.98	-2.98
Mundra-Mohindergarh(HVDC)	1102	1502	1504	0	31.40	0.00	31.40
Sub Total WR	303	1096			42.42	26.91	15.51
Pusauli Bypass	200	200	200	0	4.80	0.00	4.80
MZP- GKP (D/C)	451	573	776	0	13.57	0.00	13.57
Patna-Balia(D/C)	430	523	721	0	12.80	0.00	12.80
B'Sharif-Balia (D/C)	247	328	445	0	7.91	0.00	7.91
Pusauli-Balia	2	41	78	0	0.89	0.00	0.89
Gaya-Fatehpur (765 Kv)	169	198	387	0	5.81	0.00	5.81
Pusauli-Sahupuri	130	105	170	0	2.71	0.00	2.71
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-35	-32	0	38	0.00	0.96	-0.96
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	1594	1936			48.49	0.96	47.53
Total IR Exch	1897	3032			90.91	27.87	63.04

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
35.40	1.20	36.60	1.70	-28.44	10.02	7.94	2.95	-2.95

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
51.27	14.39	65.66	47.53	15.51	63.04	-3.74	1.12	-2.62

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	6.30	98.30	12.90	92.00	32.00	1.70

<----- 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				
50.30	23.59	49.52	10.55	49.93	0.25	0.14	50.29	49.74

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	04:02	407	17:45	0.0	0.0	0.0	0.0
Gorakhpur	400	411	15:36	411	15:36	0.0	0.0	0.0	0.0
Barailly	400	423	21:48	400	08:38	0.0	0.0	2.2	0.0
Kanpur	400	423	04:01	400	08:33	0.0	0.0	3.9	0.0
Dadri	400	427	04:01	403	10:21	0.0	0.0	19.5	0.0
Ballabgarh	400	429	22:00	425	22:06	0.0	0.0	100.0	0.0
Bawana	400	430	04:05	407	09:26	0.0	0.0	35.5	0.0
Bassi	400	428	04:05	389	08:42	0.0	0.1	11.6	0.0
Hissar	400	420	04:01	397	09:20	0.0	0.0	0.0	0.0
Moga	400	427	04:01	402	08:29	0.0	0.0	14.8	0.0
Abdullapur	400	0	00:00	9999	00:00	0.0	0.0	0.0	0.0
Nalagarh	400	428	03:59	406	10:18	0.0	0.0	25.7	0.0
Kishenpur	400	423	04:01	390	18:35	0.0	0.0	3.0	0.0
Wagoora	400	412	04:02	373	18:17	8.4	36.2	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	776	04:03	728	08:31	0.0	18.6	0.0	0.0
Balia	765	765	21:48	729	10:19	0.0	26.2	0.0	0.0
Moga	765	800	04:02	753	08:32	0.0	0.0	0.0	0.0
Agra	765	812	04:02	755	08:40	0.0	0.0	21.9	0.0
Bhivani	765	787	16:03	761	08:35	0.0	0.0	0.0	0.0
Unnao	765	766	21:48	736	08:45	0.0	18.0	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	509.75	1530.03	502.79	1219.07	224.27	406.12
Pong	426.72	384.05	418.70	834.82	417.98	794.52	94.72	329.75
Tehri	829.79	740.04	822.95	1065.64	818.65	982.26	71.76	142.00
Koteshwar	612.50	598.50	611.60	5.50	NA	NA	142.00	146.00
Chamera-I	760.00	748.75	NA	NA	NA	NA	64.37	72.29
Rihand	268.22	252.98	261.82	407.50	262.98	478.20	NA	NA
RPS	352.80	343.81	352.88	NA	NA	NA	243.01	12.15
Jawahar Sagar	298.70	295.78	298.61	NA	NA	NA	253.41	163.81
RSD	527.91	487.91	516.48	144.00	520.95	144.00	86.28	222.34

* NA: Not Available

X. System Constraints:

XI. Grid Disturbance / Any Other Significant Event:

XII. Weather Conditions For 14.11.2013 :

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 .