

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरसिस्टम की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 25.11.2013
Date of Reporting : 26.11.2013

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
32829	2987	35817	50.20	26238	980	27218	50.15	710.6	63.89

* 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	43.68	10.21		53.89	31.98	34.97	2.99	88.86	1.09
Haryana	71.35	0.61		71.97	26.92	27.39	0.47	99.36	0.29
Rajasthan	98.45	4.20	4.67	107.33	73.00	69.18	-3.83	176.51	0.00
Delhi	17.07			17.07	39.61	39.81	0.20	56.88	0.04
UP	116.07	3.10	1.20	120.37	76.57	78.94	2.37	199.31	58.18
Uttarakhand		7.34		7.34	20.44	21.14	0.70	28.48	2.39
HP		6.66		6.66	15.88	16.17	0.29	22.83	0.21
J & K		7.12	0.00	7.12	27.42	28.06	0.63	35.17	1.70
Chandigarh				0.00	3.12	3.17	0.05	3.17	0.00
Total	346.62	39.25	5.87	391.74	314.94	318.81	3.88	710.55	63.89

* 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	4342	0	-23	-514	3253	0	292	-492	-12.57	
Haryana	4900	197	200	-982	3146	0	112	-1041	-25.01	
Rajasthan	7665	0	-365	862	6536	0	58	878	32.77	
Delhi	3048	0	0	-549	1338	0	-168	-1148	-19.54	
UP	8267	2615	-326	-211	8910	980	80	722	-1.02	
Uttarakhand	1506	75	35	552	1014	0	20	411	9.87	
HP	1192	0	48	59	677	0	9	246	4.21	
J&K	1729	100	52	467	1285	0	-103	384	7.64	
Chandigarh	181	0	7	0	80	0	-13	0	0.02	
Total	32829	2987	-372	-315	26238	980	287	-40	-3.61	

* 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	1945	2055	2089	46.32	1930	46.68	-0.36	
	Rihand I STPS	1000	817	990	845	19.64	818	19.42	0.23	
	Rihand II STPS	1000	702	525	808	16.15	673	15.72	0.43	
	Rihand III STPS	1000	413	525	408	9.97	415	9.92	0.05	
	Dadri I STPS	840	814	650	438	12.92	538	13.03	-0.11	
	Dadri II STPS	980	985	985	711	21.00	875	21.12	-0.12	
	Unchahar I TPS	420	405	438	369	9.27	386	9.31	-0.05	
	Unchahar II TPS	420	403	435	334	8.83	368	8.85	-0.02	
	Unchahar III TPS	210	201	215	153	4.33	180	4.39	-0.06	
	ISTPP (Jhajjar)	1500	1480	1016	627	16.20	675	16.39	-0.19	
	Dadri GPS	830	823	184	205	4.46	186	4.73	-0.27	
	Anta GPS	419	414	259	254	6.16	257	6.15	0.01	
	Auraiya GPS	663	657	160	161	3.70	154	3.87	-0.17	
	Sub Total (A)	11282	10059	8437	7402	178.95	7456	179.59	-0.64	
	B. NPC	NAPS	440	317	352	360	7.61	317	7.61	0.00
		RAPS- B	440	417	459	465	10.03	418	10.01	0.02
RAPS- C		440	430	475	476	10.25	427	10.32	-0.07	
Sub Total (B)		1320	1164	1286	1301	27.89	1162	27.94	-0.05	
C. NHPC	Chamera I HPS	540	541	360	0	1.95	81	1.90	0.05	
	Chamera II HPS	300	300	171	0	1.40	58	1.54	-0.14	
	Chamera III HPS	231	231	64	0	0.82	34	0.80	0.02	
	Bairasuil HPS	180	182	10	0	0.62	26	0.57	0.04	
	Salal-HPS	690	130	148	123	3.47	145	3.09	0.38	
	Tanakpur-HPS	94	34	52	36	0.89	37	0.85	0.04	
	Uri-HPS	480	112	213	28	2.81	117	2.53	0.28	
	Uri-II HPS	120	66	105	60	1.66	69	1.60	0.06	
	Dhauliganga-HPS	280	0	0	0	0.00	0	0.00	0.00	
	Dulhasti-HPS	390	387	378	0	3.31	138	3.29	0.02	
	Sewa-II HPS	120	119	106	0	0.34	14	0.38	-0.04	
	Sub Total (C)	3425	2102	1607	247	17.28	720	16.56	0.71	
	D. NJPC	Nathpa Jhakri	1500	1605	1613	0	9.30	388	9.10	0.20
Sub Total (D)		1500	1605	1613	0	9.30	388	9.10	0.20	
E. THDC	Tehri HPS	1000	1060	753	0	7.64	318	7.40	0.24	
	Koteshwar HPS	400	92	101	92	2.24	93	2.20	0.04	
	Sub Total (E)	1400	1152	854	92	9.88	412	9.60	0.28	
F. BBMB	Bhakra HPS	1497	569	1082	377	14.25	594	13.66	0.59	
	Dehar HPS	990	147	330	0	4.09	170	3.54	0.56	
	Pong HPS	396	240	246	180	5.86	244	5.75	0.11	
	Sub Total (F)	2883	956	1658	557	24.20	1008	22.94	1.26	
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	0	0	0.55	23	0.53	0.02	
	KWHEP HPS(IPP)	1000	0	419	0	5.04	210	5.28	-0.24	
	Malana Stg-II HPS	100	0	0	0	0.00	0	0.00	0.00	
	Shree Cement TPS	300	0	125	85	2.76	115	2.76	0.00	
	Budhil HPS(IPP)	70	0	0	0	0.00	0	0.00	0.00	
	Sub Total (G)	1662	0	544	85	8.35	348	8.57	-0.22	
H. Total Regional Entities (A-G)	23472	17038	15999	9684	275.84	11493	274.31	1.53		

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	790	20.22	842
	Guru Nanak Dev TPS(Bhatinda)	440	250	170	4.89	204
	Guru Hargobind Singh TPS(L.mbt)	920	925	764	18.57	774
	Goindwal(GVK)		0	0	0.00	0
	Thermal (Total)	2620	2125	1724	43.68	1820
	Total Hydro	1148	457	427	10.21	426
	Total Punjab	3768	2582	2151	53.89	2246
Haryana	Panipat TPS	1367	825	517	18.08	754
	DCRTPP (Yamuna nagar)	600	500	505	12.06	502
	Faridabad GPS (NTPC)	432	197	195	4.69	196
	RGTPP (khedar) (IPP)	1200	0	505	10.51	438
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	1320	1114	744	26.02	1084
	Thermal (Total)	4944	2636	2466	71.35	2973
	Total Hydro	62	25	27	0.61	26
	Total Haryana	5006	2661	2493	71.97	2999
	Rajasthan	kota TPS	1240	1150	1107	26.85
suratgarh TPS		1500	1111	1021	25.18	1049
Chabra TPS		500	441	394	9.84	410
Dholpur GPS		330	109	103	2.64	110
Ramgarh GPS		111	140	163	3.02	126
RAPS A (NPC)		300	175	175	4.00	167
Barsingsar (NLC)		250	216	218	5.20	217
Giral LTPS		250	0	0	0.00	0
Rajwest LTPS (IPP)		1080	478	329	9.47	395
VSLP LTPS (IPP)		135	0	0	0.00	0
Kalisindh Thermal		600	0	0	0.00	0
Kawai(Adani)		660	548	424	12.26	511
Thermal (Total)		6956	4368	3934	98.45	4102
Total Hydro		550	173	133	4.20	175
Wind power		2191	20	189	2.88	120
Biomass		91	31	31	0.75	31
Solar		201	8	0	1.05	44
Renewable/Others (Total)		2483	51	220	4.67	195
Total Rajasthan		9989	4592	4287	107.33	4472
UP		Anpara TPS	1630	1417	1369	29.80
	Obra TPS	1288	326	343	7.30	304
	Paricha TPS	1140	646	715	14.90	621
	Panki TPS	210	75	85	1.70	71
	Harduaganj TPS	665	108	248	4.00	167
	Tanda TPS (NTPC)	440	396	295	8.71	363
	Roza TPS (IPP)	1200	1080	1080	26.13	1089
	Anpara-C (IPP)	1200	572	572	14.00	583
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	403	403	9.54	397
	Thermal (Total)	8223	5023	5110	116.07	4836
	Vishnuparyag HPS (IPP)	400	0	0	0.00	0
	Other Hydro	527	105	148	3.10	129
	Cogeneration	981	50	50	1.20	50
	Total UP	10131	5178	5308	120.37	5015
	Uttarakhand	Total Hydro	1303	406	218	7.34
Total Uttarakhand		1303	406	218	7.34	306
Delhi	Raighat TPS	135	0	0	0.00	0
	Delhi Gas Turbine	282	81	82	1.92	80
	Pragati Gas Turbine	330	310	265	7.11	296
	Riithala GPS	95	0	0	0.00	0
	Bawana GPS	686	0	0	0.00	0
	Badarpur TPS (NTPC)	705	390	365	8.04	335
	Thermal (Total)	2232	781	712	17.07	711
Total Delhi	2232	781	712	17.07	711	
HP	Baspa HPS (IPP)	330	58	29	1.62	67
	Malana HPS (IPP)	86	0	0	0.35	14
	Other Hydro	589	228	129	4.70	196
	Total HP	1005	286	158	6.66	277
J & K	Baglihar HPS (IPP)	450	293	148	4.54	189
	Other Hydro	323	90	115	2.58	107
	Gas/Diesel/Others	183	0	0	0.00	0
	Total J & K	956	383	263	7.12	297
Total State Control Area Generation		34390	16869	15590	391.74	16323
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			1647	2419	59.08	2461
Total Regional Availability(Gross)		57862	34515	27693	726.66	30277

IV. Total Hydro Generation:

Regional Entities Hydro	10500	6151	896	66.24	2760
State Control Area Hydro	5368	1835	1374	39.25	1635
Total Regional Hydro	15868	7986	2270	105.49	4396

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	-400	-500	0	500	0.00	10.83	-10.83
Gwalior-Agra (D/C)	103	690	1038	0	12.29	0.00	12.29
Zerda-Kankroli	-123	-249	0	307	0.00	3.83	-3.83
Zerda-Bhinmal	-33	-129	115	129	0.00	1.17	-1.17
Malanpur-Auraiya	-118	-100	0	181	0.00	3.06	-3.06
Badod-Kota/Morak	-79	-176	0	225	0.00	3.75	-3.75
Mundra-Mohindergarh(HVDC)	1099	1101	1103	0	26.61	0.00	26.61
Sub Total WR	449	637			38.90	22.64	16.26
Pusauli Bypass	-200	-200	0	200	0.00	4.84	-4.84
MZP- GKP (D/C)	220	576	727	0	11.37	0.00	11.37
Patna-Balia(D/C)	639	639	922	0	16.97	0.00	16.97
B'Sharif-Balia (D/C)	258	375	487	0	8.98	0.00	8.98
Pusauli-Balia	36	78	125	0	1.76	0.00	1.76
Gaya-Fatehpur (765 Kv)	213	228	472	0	6.95	0.00	6.95
Pusauli-Sahupuri	66	115	166	0	2.58	0.00	2.58
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-34	-29	0	38	0.00	0.95	-0.95
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	1198	1782			48.61	5.79	42.81
Total IR Exch	1647	2419			87.51	28.43	59.08

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
33.86	0.86	34.72	5.70	-30.58	15.27	0.35	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
58.63	-2.05	56.58	42.81	16.26	59.08	-15.82	18.32	2.49

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	0.60	97.00	3.20	96.40	49.20	3.00

<----- 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)		
50.30	21.57	49.59	17.38	50.00	0.12	0.11	50.30	49.59

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	21:32	403	07:30	0.0	0.0	0.0	0.0
Gorakhpur	400	431	21:46	416	10:50	0.0	0.0	61.7	1.6
Barailly	400	424	21:34	409	00:04	0.0	0.0	5.2	0.0
Kanpur	400	426	20:57	407	09:43	0.0	0.0	8.3	0.0
Dadri	400	426	03:02	409	10:14	0.0	0.0	25.6	0.0
Ballabgarh	400	433	03:02	414	10:13	0.0	0.0	73.5	7.4
Bawana	400	427	04:01	408	11:00	0.0	0.0	0.0	0.0
Bassi	400	428	20:56	397	09:40	0.0	0.0	14.1	0.0
Hissar	400	419	03:04	399	10:14	0.0	0.0	0.0	0.0
Moga	400	425	03:02	406	09:48	0.0	0.0	8.5	0.0
Abdullapur	400	425	03:17	408	09:31	0.0	0.0	10.6	0.0
Nalagarh	400	428	20:55	413	18:10	0.0	0.0	39.3	0.0
Kishenpur	400	423	03:00	399	18:08	0.0	0.0	1.8	0.0
Wagoora	400	421	13:01	380	18:23	0.0	21.4	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	778	20:00	749	09:00	0.0	0.0	0.0	0.0
Balia	765	768	20:56	733	10:19	0.0	19.2	0.0	0.0
Moga	765	796	03:04	760	09:50	0.0	0.0	0.0	0.0
Agra	765	816	20:56	773	09:43	0.0	0.0	21.2	0.0
Bhiwani	765	803	03:16	768	10:15	0.0	0.0	3.7	0.0
Unnao	765	771	20:56	0	10:06	44.5	44.5	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	508.56	1470.42	501.17	1140.31	204.84	397.71
Pong	426.72	384.05	41.61	781.19	416.31	730.66	52.98	342.86
Tehri	829.79	740.04	821.05	1107.95	818.65	982.26	60.04	168.00
Koteswar	612.50	598.50	609.10	4.10	NA	NA	165.00	148.00
Chamera-I	760.00	748.75	NA	NA	NA	NA	55.86	52.34
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 25.11.2013 :

1. Normal weather in 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 : 25.11.2013

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER