

पॉवर सिस्टम ऑपरेशन कारपोरेशन लिमिटेड

(पावरसिस्टम की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 24.12.2013
Date of Reporting : 25.12.2013

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
36213	2688	38902	49.95	26997	-140	26857	50.17	742.4	57.25

* 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	43.42	9.27		52.69	34.42	36.21	1.79	88.90	0.00
Haryana	60.44	0.46		60.90	36.02	34.84	-1.19	95.74	0.08
Rajasthan	98.71	4.54	8.27	111.53	78.87	73.80	-5.07	185.32	0.00
Delhi	19.96			19.96	41.60	41.57	-0.03	61.53	0.01
UP	123.39	3.53	14.40	141.32	74.83	69.94	-4.89	211.26	39.05
Uttarakhand		11.22		11.22	19.86	21.36	1.50	32.58	16.40
HP		4.91		4.91	19.40	20.05	0.64	24.96	0.00
J & K		6.34	0.00	6.34	30.92	32.06	1.14	38.40	1.70
Chandigarh				0.00	3.23	3.72	0.49	3.72	0.00
Total	345.92	40.28	22.67	408.87	339.14	333.52	-5.62	742.39	57.25

* 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	4855	0	48	-615	2823	0	205	-312	-9.99	
Haryana	5974	0	176	-1003	3578	0	-232	-787	-27.71	
Rajasthan	8562	0	-213	1441	6717	0	-226	762	35.23	
Delhi	3268	2	5	-657	1423	0	50	-1470	-21.41	
UP	8667	2510	-694	171	9029	-140	-108	-173	-5.28	
Uttarakhand	1678	75	85	389	1135	0	5	349	8.70	
HP	1250	1	-54	314	715	0	-34	358	8.03	
J&K	1766	100	-136	629	1490	0	-29	538	10.87	
Chandigarh	194	0	1	0	88	0	-5	0	-0.02	
Total	36213	2688	-783	668	26997	-140	-374	-735	-1.59	

* 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	2083	2083	46.83	1951	46.68	0.15	
	Rihand I STPS	1000	877	988	830	20.00	833	20.00	0.00	
	Rihand II STPS	1000	930	1048	857	20.98	874	20.86	0.12	
	Rihand III STPS	1000	460	525	450	11.01	459	10.98	0.03	
	Dadri I STPS	840	815	652	464	13.15	548	13.07	0.08	
	Dadri II STPS	980	985	950	700	20.49	854	20.62	-0.13	
	Unchahar I TPS	420	407	405	352	8.71	363	8.70	0.02	
	Unchahar II TPS	420	404	402	307	8.38	349	8.31	0.06	
	Unchahar III TPS	210	201	185	152	4.07	169	4.03	0.04	
	ISTPP (Jhajjar)	1500	1480	631	633	14.01	584	14.21	-0.20	
	Dadri GPS	830	840	275	337	7.29	304	7.38	-0.08	
	Anta GPS	419	428	275	218	5.64	235	5.78	-0.14	
	Auraiya GPS	663	669	154	143	3.61	151	3.57	0.04	
	Sub Total (A)	11282	10441	8573.41	7525.82	184.16	7673	184.18	-0.02	
	B. NPC	NAPS	440	322	355	361	7.75	323	7.73	0.02
		RAPS- B	440	420	465	467	10.15	423	10.08	0.07
		RAPS- C	440	430	476	478	10.20	425	10.32	-0.12
Sub Total (B)		1320	1172	1296	1306	28.10	1171	28.13	-0.03	
C. NHPC	Chamera I HPS	540	433	270	0	1.86	78	1.76	0.11	
	Chamera II HPS	300	300	301	0	1.05	44	1.08	-0.03	
	Chamera III HPS	231	231	66	0	0.46	19	0.54	-0.07	
	Bairasuil HPS	180	182	122	0	0.56	23	0.56	0.00	
	Salal-HPS	690	113	228	94	2.85	119	2.64	0.21	
	Tanakpur-HPS	94	0	0	0	0.08	3	0.00	0.08	
	Uri-HPS	480	85	220	30	1.96	82	2.13	-0.17	
	Uri-II HPS	120	55	121	36	1.31	55	1.27	0.04	
	Dhauliganga-HPS	280	0	0	0	0.00	0	0.00	0.00	
	Dulhasti-HPS	390	387	405	0	2.51	105	2.56	-0.05	
	Sewa-II HPS	120	119	122	0	0.35	14	0.37	-0.02	
	Sub Total (C)	3425	1905	1855	160	12.98	541	12.90	0.08	
	D. NJPC	Nathpa Jhakri	1500	1605	1037	0	7.51	313	7.38	0.12
Sub Total (D)		1500	1605	1037	0	7.51	313	7.38	0.12	
E. THDC	Tehri HPS	1000	1060	724	0	8.84	368	8.70	0.14	
	Koteshwar HPS	400	125	200	91	2.94	123	3.00	-0.06	
	Sub Total (E)	1400	1185	924	91	11.78	491	11.70	0.08	
F. BBMB	Bhakra HPS	1497	606	1183	367	15.08	628	14.54	0.54	
	Dehar HPS	990	111	330	0	3.41	142	2.66	0.75	
	Pong HPS	396	273	372	120	6.71	280	6.55	0.16	
	Sub Total (F)	2883	990	1885	487	25.20	1050	23.75	1.45	
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	39	0	0.38	16	0.37	0.01	
	KWHEP HPS(IPP)	1000	0	360	0	3.98	166	3.96	0.02	
	Malana Stg-II HPS	100	0	0	0	0.00	0	0.11	-0.11	
	Shree Cement TPS	300	0	271	147	5.51	230	5.36	0.16	
	Budhil HPS(IPP)	70	0	0	0	0.00	0	0.00	0.00	
	Sub Total (G)	1662	0	670	147	9.87	411	9.80	0.07	
H. Total Regional Entities (A-G)	23472	17298	16240	9717	279.60	11650	277.84	1.76		

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	1010	770	18.25	760
	Guru Nanak Dev TPS(Bhatinda)	440	256	250	5.99	250
	Guru Hargobind Singh TPS(L.mbt)	920	970	679	19.18	799
	Goindwal(GVK)		0	0	0.00	0
	Thermal (Total)	2620	2236	1699	43.42	1809
	Total Hydro	1148	420	411	9.27	386
Total Punjab	3768	2656	2110	52.69	2195	
Haryana	Panipat TPS	1367	832	788	18.85	785
	DCRTPP (Yamuna nagar)	600	559	503	12.03	501
	Faridabad GPS (NTPC)	432	165	156	3.84	160
	RGTPP (khedar) (IPP)	1200	590	458	11.72	488
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	1320	1237	744	14.01	584
	Thermal (Total)	4944	3383	2649	60.44	2518
	Total Hydro	62	16	20	0.46	19
	Total Haryana	5006	3399	2669	60.90	2538
	Rajasthan	kota TPS	1240	1093	980	24.60
suratgarh TPS		1500	824	835	20.21	842
Chabra TPS		500	565	490	12.25	510
Dholpur GPS		330	123	126	3.11	130
Ramgarh GPS		111	122	126	2.98	124
RAPS A (NPC)		300	175	175	4.03	168
Barsingsar (NLC)		250	214	216	5.06	211
Giral LTPS		250	43	76	1.56	65
Rajwest LTPS (IPP)		1080	718	426	12.33	514
VSLP LTPS (IPP)		135	0	0	0.00	0
Kalisindh Thermal		600	0	0	0.00	0
Kawai(Adani)		660	547	470	12.59	525
Thermal (Total)		6956	4424	3920	98.71	4113
Total Hydro		550	257	108	4.54	189
Wind power		2191	297	229	7.15	298
Biomass		91	25	25	0.61	25
Solar		201	5	0	0.52	22
Renewable/Others (Total)		2483	322	254	8.27	345
Total Rajasthan		9989	5003	4282	111.53	4647
UP		Anpara TPS	1630	1404	1403	33.40
	Obra TPS	1288	503	471	11.60	483
	Paricha TPS	1140	650	605	15.00	625
	Panki TPS	210	63	54	1.50	63
	Harduaganj TPS	665	454	448	10.90	454
	Tanda TPS (NTPC)	440	402	403	9.61	400
	Roza TPS (IPP)	1200	590	806	16.82	701
	Anpara-C (IPP)	1200	554	777	17.47	728
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	283	407	7.09	295
	Thermal (Total)	8223	4903	5374	123.39	5141
	Vishnuparyag HPS (IPP)	400	0	0	0.00	0
	Other Hydro	527	113	172	3.53	147
	Cogeneration	981	600	600	14.40	600
	Total UP	10131	5616	6146	141.32	5888
Uttarakhand	Total Hydro	1303	608	396	11.22	468
	Total Uttarakhand	1303	608	396	11.22	468
Delhi	Rajghat TPS	135	0	0	0.00	0
	Delhi Gas Turbine	282	80	81	1.84	77
	Pragati Gas Turbine	330	315	266	7.39	308
	Riithala GPS	95	0	0	0.00	0
	Bawana GPS	686	0	0	0.00	0
	Badarpur TPS (NTPC)	705	520	410	10.73	447
	Thermal (Total)	2232	915	757	19.96	832
Total Delhi	2232	915	757	19.96	832	
HP	Baspa HPS (IPP)	330	61	0	1.20	50
	Malana HPS (IPP)	86	0	0	0.22	9
	Other Hydro	589	210	92	3.50	146
	Total HP	1005	271	92	4.91	205
J & K	Baglihar HPS (IPP)	450	298	118	3.76	157
	Other Hydro	323	90	124	2.58	108
	Gas/Diesel/Others	183	0	0	0.00	0
	Total J & K	956	388	242	6.34	264
Total State Control Area Generation		34390	18856	16694	408.87	17036
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			3856	1780	78.92	3288
Total Regional Availability(Gross)		57862	38952	28191	767.39	31975

IV. Total Hydro Generation:

Regional Entities Hydro	10500	6100	738	61.83	2576
State Control Area Hydro	5368	2073	1441	40.28	1678
Total Regional Hydro	15868	8173	2179	102.10	4254

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	-300	300	450	0.95	3.09	-2.14
Gwalior-Agra (D/C)	1273	485	1687	0	24.73	0.00	24.73
Zerda-Kankroli	-59	-301	61	332	0.00	2.06	-2.06
Zerda-Bhinmal	16	-202	202	290	0.19	0.00	0.19
Malanpur-Auraiya	-89	-98	0	297	0.00	3.00	-3.00
Badod-Kota/Morak	-108	-219	0	254	0.00	2.98	-2.98
Mundra-Mohindergarh(HVDC)	1452	1154	1645	0	28.69	0.00	28.69
Sub Total WR	2385	519			54.56	11.13	43.43
Pusauli Bypass	100	100	100	0	2.44	0.00	2.44
MZP- GKP (D/C)	275	279	480	0	6.69	0.00	6.69
Patna-Balia(D/C)	545	485	752	0	13.22	0.00	13.22
B'Sharif-Balia (D/C)	208	147	349	0	4.44	0.00	4.44
Pusauli-Balia	-87	-82	0	113	0.00	1.83	-1.83
Gaya-Fatehpur (765 Kv)	66	24	217	22	1.57	0.00	1.57
Pusauli-Sahupuri	192	178	205	0	4.91	0.00	4.91
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)	204	160	379	0	4.90	0.00	4.90
Sub Total ER	1471	1261			38.17	2.67	35.50
Total IR Exch	3856	1780			92.73	13.81	78.92

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
27.60	0.51	28.11	14.09	-14.88	-0.24	-5.78	4.17	-4.17

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
46.13	35.63	81.77	35.50	43.43	78.92	-10.64	7.79	-2.84

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	1.10	90.60	6.90	89.50	46.80	9.40

<----- 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				
50.39	17.32	49.63	8.37	49.99	0.20	0.14	50.33	49.80

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	410	03:02	402	11:07	0.0	0.0	0.0	0.0
Gorakhpur	400	426	22:01	410	14:48	0.0	0.0	33.0	0.0
Barailly	400	424	04:03	402	09:51	0.0	0.0	13.8	0.0
Kanpur	400	423	04:04	400	09:47	0.0	0.0	2.6	0.0
Dadri	400	426	04:04	400	09:49	0.0	0.0	14.5	0.0
Ballabgarh	400	427	00:00	413	13:51	0.0	0.0	74.1	0.0
Bawana	400	429	04:01	404	09:47	0.0	0.0	30.7	0.0
Bassi	400	424	04:04	388	11:16	0.0	1.4	2.5	0.0
Hissar	400	418	04:04	392	09:47	0.0	0.0	0.0	0.0
Moga	400	425	04:04	396	09:36	0.0	0.0	10.6	0.0
Abdullapur	400	427	04:01	403	06:49	0.0	0.0	14.3	0.0
Nalagarh	400	427	00:03	402	08:02	0.0	0.0	28.0	0.0
Kishenpur	400	417	04:01	392	09:47	0.0	0.0	0.0	0.0
Wagoora	400	407	13:32	369	18:07	17.0	43.6	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	0	00:00	9999	00:00	0.0	0.0	0.0	0.0
Balia	765	757	20:59	729	09:51	0.0	33.6	0.0	0.0
Moga	765	793	04:03	733	09:47	0.0	9.0	0.0	0.0
Agra	765	818	04:04	730	06:10	0.0	0.1	30.1	0.0
Bhiwani	765	802	04:03	747	09:48	0.0	0.0	0.7	0.0
Unnao	765	764	04:03	732	09:51	0.0	14.6	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	503.55	1245.57	496.32	948.89	179.64	422.57
Pong	426.72	384.05	413.07	600.05	411.77	555.85	102.56	415.66
Tehri	829.79	740.04	814.85	900.00	818.65	982.26	48.18	200.00
Koteshwar	612.50	598.50	610.30	4.95	NA	NA	204.00	181.00
Chamera-I	760.00	748.75	NA	NA	NA	NA	44.62	43.74
Rihand	268.22	252.98	261.03	362.32	262.01	419.10	NA	NA
RPS	352.80	343.81	349.28	NA	NA	NA	NA	NA
Jawahar Sagar	298.70	295.78	298.28	NA	NA	NA	NA	NA
RSD	527.91	487.91	512.54	144.00	518.15	144.00	54.85	137.22

* NA: Not Available

X. System Constraints:

XI. Grid Disturbance / Any Other Significant Event:

XII. Weather Conditions For 24.12.2013 :

1. Fog reported 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 .