

पावर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरसिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 16.01.2013
Date of Reporting : 17.01.2013

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
34137	3173	37310	50.10	28432	915	29347	50.05	751.8	71.17

* 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)	UI [OD:(+ve), UD: (-ve)]	
	Thermal	Hydro	Renewable/others \$	Total				Consumption (Net MU)	Shortages * (MU)
Punjab	46.18	13.15		59.32	34.23	35.42	1.19	94.75	6.66
Haryana	70.79	0.47		71.26	35.48	34.47	-1.01	105.72	0.77
Rajasthan	88.99	5.08	3.62	97.69	83.57	82.50	-1.06	180.19	0.99
Delhi	32.06			32.06	34.40	30.61	-3.79	62.67	0.04
UP	100.61	9.31	18.00	127.93	78.00	81.13	3.12	209.05	58.51
Uttarakhand		8.43		8.43	22.89	23.65	0.77	32.09	1.58
HP		4.07		4.07	20.39	20.66	0.27	24.73	0.92
J & K		7.02	0.00	7.02	27.82	31.90	4.08	38.92	1.70
Chandigarh				0.00	3.61	3.70	0.10	3.70	0.00
Total	338.63	47.52	21.62	407.77	340.37	344.05	3.67	751.82	71.17

* 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	
Punjab	4635	600	41	-416	3980	0	120	197	-5.09
Haryana	5261	0	-222	-119	3514	0	-204	-525	-8.20
Rajasthan	7369	0	-299	1203	7159	0	-73	1615	42.78
Delhi	3227	0	2	-807	1447	0	-23	-1393	-26.29
UP	8859	2473	179	459	8704	915	169	-156	-0.96
Uttarakhand	1635	0	18	558	1154	0	-19	557	13.11
HP	1196	0	-79	351	807	0	21	441	9.64
J&K	1757	100	-75	403	1577	0	164	483	8.88
Chandigarh	199	0	-20	0	90	0	5	-31	-0.13
Total	34137	3173	-456	1634	28432	915	159	1189	33.74

* 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)	UI [OG:(+ve), UG: (-ve)]	
								Schedule Net MU	UI Net MU
A. NTPC	Singrauli STPS	2000	1955	2095	2099	47.38	1974	46.92	0.46
	Rihand I STPS	1000	920	988	962	21.90	913	21.96	-0.06
	Rihand II STPS	1000	975	1035	975	23.19	966	23.22	-0.03
	Rihand III STPS	500	-6	0	0	0.00	0	-0.14	0.14
	Dadri I STPS	840	810	747	625	16.37	682	17.09	-0.72
	Dadri II STPS	980	975	868	754	20.33	847	22.06	-1.73
	Unchahar I TPS	420	406	438	413	9.46	394	9.60	-0.14
	Unchahar II TPS	420	404	431	391	9.32	388	9.37	-0.06
	Unchahar III TPS	210	202	213	183	4.59	191	4.67	-0.08
	ISTPP (Jhajihar)	1500	980	629	608	17.03	710	17.11	-0.08
	Dadri GPS	830	643	400	294	8.29	345	8.59	-0.30
	Anta GPS	419	424	265	228	5.68	237	5.91	-0.24
	Auraiya GPS	663	668	325	228	7.28	303	7.15	0.13
	Sub Total (A)	10782	9357	8434	7760	190.82	7951	193.52	-2.71
B. NPC	NAPS	440	142	164	168	3.39	141	3.41	-0.02
	RAPS- B	440	419	463	466	10.05	419	10.06	0.00
	RAPS- C	440	438	473	474	10.20	425	10.51	-0.32
	Sub Total (B)	1320	999	1100	1108	23.64	985	23.98	-0.34
C. NHPC	Chamera I HPS	540	550	360	0	2.25	94	2.32	-0.07
	Chamera II HPS	300	303	153	0	1.11	46	1.01	0.09
	Chamera III HPS	231	231	47	0	0.60	25	0.58	0.03
	Bairasuil HPS	180	182	40	0	0.41	17	0.45	-0.04
	Salal-HPS	690	121	229	85	2.81	117	2.90	-0.10
	Tanakpur-HPS	94	25	31	15	0.55	23	0.61	-0.06
	Uri-HPS	480	120	219	46	6.57	274	2.73	3.84
	Dhauliganga-HPS	280	210	131	0	1.01	42	1.07	-0.06
	Dulhasti-HPS	390	0	0	0	0.00	0	0.00	0.00
	Sewa-II HPS	120	120	117	0	0.22	9	0.23	-0.01
Sub Total (C)	3305	1862	1327	146	15.53	647	11.91	3.62	
D.NJPC	Nathpa Jhakri	1500	1350	1170	0	6.11	255	6.00	0.11
	Sub Total (D)	1500	1350	1170	0	6.11	255	6.00	0.11
E. THDC	Tehri HPS	1000	1010	990	0	9.86	411	9.80	0.06
	Koteshwar HPS	400	400	392	86	3.38	141	3.40	-0.02
Sub Total (E)	1400	1410	1382	86	13.24	552	13.20	0.04	
F. BBMB	Bhakra HPS	1480	659	1106	370	16.29	679	15.83	0.46
	Dehar HPS	990	93	495	0	2.30	96	2.24	0.06
	Pong HPS	396	236	306	126	5.85	244	5.01	0.84
	Sub Total (F)	2866	989	1907	496	24.44	1018	23.07	1.37
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	0	0	0.37	16	0.36	0.01
	KWHEP HPS(IPP)	1000	0	0	0	0.00	0	0.00	0.00
	Malana Stg-II HPS	100	0	19	0	0.14	6	0.12	0.02
	Shree Cement TPS	300	0	142	135	3.43	143	4.09	-0.67
	Budhil HPS(IPP)	70	0	6	0	0.05	2	0.00	0.05
	Sub Total (G)	1662	0	167	135	3.99	166	4.58	-0.59
H. Total Regional Entities (A-G)	22836	15966	15487	9731	277.77	11574	276.26	1.51	

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	842	840	19.42	809	
	Guru Nanak Dev TPS(Bhatinda)	440	293	188	5.30	221	
	Guru Hargobind Singh TPS(L.mbt)	920	943	967	21.46	894	
	Thermal (Total)	2620	2078	1995	46.18	1924	
	Total Hydro	1148	605	303	13.15	548	
	Total Punjab	3768	2683	2298	59.32	2472	
Haryana	Panipat TPS	1367	1034	1043	25.57	1065	
	DCRTPP (Yamuna nagar)	600	283	283	6.65	277	
	Faridabad GPS (NTPC)	432	411	284	7.35	306	
	RGTPP (khedar) (IPP)	1200	938	795	20.88	870	
	Magnum Diesel (IPP)	25	0	0	0.00	0	
	Jhajjar(CLP)	1320	581	357	10.35	431	
	Thermal (Total)	4944	196	2762	70.79	2950	
	Total Hydro	62	20	21	0.47	19	
	Total Haryana	5006	216	2783	71.26	2969	
	Rajasthan	kota TPS	1240	1160	1091	26.77	1116
		suratgarh TPS	1500	1093	1092	25.61	1067
Chabra TPS		500	434	420	10.16	423	
Dholpur GPS		330	140	88	3.05	127	
Ramgarh GPS		111	79	0	1.96	82	
RAPS A (NPC)		300	204	204	4.82	201	
Barsingar (NLC)		250	110	111	2.56	107	
Giral LTPS		250	158	139	3.04	127	
Rajwest LTPS (IPP)		675	482	483	11.04	460	
VSLP LTPS (IPP)		135	0	0	0.00	0	
Thermal (Total)		5291	3860	3628	88.99	3708	
Total Hydro		550	213	81	5.08	212	
Wind power		2191	24	60	2.86	119	
Biomass		91	25	25	0.60	25	
Solar		201	4	0	0.15	6	
Renewable/Others (Total)		2483	49	85	3.62	151	
Total Rajasthan		8324	4122	3794	97.69	4070	
UP		Anpara TPS	1630	770	787	18.20	758
	Obra TPS	1382	501	501	12.10	504	
	Paricha TPS	890	425	415	9.90	413	
	Panki TPS	210	54	117	2.10	88	
	Harduaganj TPS	665	236	223	5.30	221	
	Tanda TPS (NTPC)	440	402	397	9.63	401	
	Roza TPS (IPP)	1200	815	801	19.52	813	
	Anpara-C (IPP)	1200	695	486	14.55	606	
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	391	392	9.31	388	
	Thermal (Total)	8067	4289	4119	100.61	4192	
	Vishnuparyag HPS (IPP)	400	0	0	0.00	0	
	Other Hydro	527	492	190	9.31	388	
	Cogeneration	981	750	750	18.00	750	
	Total UP	9975	5531	5059	127.93	5330	
	Uttarakhand	Total Hydro	1303	492	308	8.43	351
Total Uttarakhand		1303	492	308	8.43	351	
Delhi	Raighat TPS	135	108	107	2.48	103	
	Delhi Gas Turbine	282	158	154	3.91	163	
	Pragati Gas Turbine	330	305	299	7.01	292	
	Rithala GPS	108	22	22	0.28	12	
	Bawana GPS	677	209	208	4.86	202	
	Badarpur TPS (NTPC)	705	580	565	13.52	564	
	Thermal (Total)	2237	1382	1355	32.06	1336	
Total Delhi	2237	1382	1355	32.06	1336		
HP	Baspa HPS (IPP)	330	0	0	0.98	41	
	Malana HPS (IPP)	86	32	0	0.17	7	
	Other Hydro	589	139	81	2.91	121	
	Total HP	1005	171	81	4	169	
J & K	Baglihar HPS (IPP)	450	152	150	3.62	151	
	Other Hydro	323	120	170	3.40	142	
	Gas/Diesel/Others	183	0	0	0.00	0	
	Total J & K	956	272	320	7.02	293	
Total State Control Area Generation		32574	14869	15998	407.77	16991	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			3104	3545	89.91	3746	
Total Regional Availability(Gross)		55410	33460	29274	775.45	32310	

IV. Total Hydro Generation:

Regional Entities Hydro	10364	5805	728	59.84	2493
State Control Area Hydro	5368	2265	1304	47.52	1980
Total Regional Hydro	15731	8070	2032	107.36	4473

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	350	200	500	0	4.73	0.00	4.73
Gwalior-Agra (D/C)	406	578	943	0	14.80	0.00	14.80
Zerda-Kankroli	35	14	233	42	2.27	0.00	2.27
Zerda-Bhinmal	118	109	350	8	4.33	0.00	4.33
Malanpur-Auraiya	-113	-76	0	113	0.00	1.95	-1.95
Badod-Kota/Morak	-8	-26	55	66	0.00	0.05	-0.05
Mundra-Mohindergarh(HVDC)	1123	1115	1123	0	26.96	0.00	26.96
Sub Total WR	1911	1914			53.08	2.00	51.09
Pusauli Bypass	300	300	300	0	7.16	0.00	7.16
MZP- GKP (D/C)	256	332	542	0	7.35	0.00	7.35
Patna-Balia(D/C)	481	667	747	0	15.17	0.00	15.17
B'Sharif-Balia (D/C)	103	261	618	0	6.25	0.00	6.25
Barh - Balia(D/C)	0	0	0	0	0.00	0.00	0.00
Pusauli-Balia	-165	-110	0	165	0.00	2.02	-2.02
Gaya-Fatehpur (765 Kv)	118	111	189	0	3.35	0.00	3.35
Pusauli-Sahupuri	132	107	144	0	2.55	0.00	2.55
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-32	-37	0	48	0.00	0.99	-0.99
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sub Total ER	1193	1631			41.83	3.01	38.82
Total IR Exch	3104	3545			94.91	5.01	89.91

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
33.30	0.18	33.48	0.72	10.78	1.36	19.62	-0.01	0.07

Total IR Schedule (MU)			Total IR Actual (MU)			Net IR UI (MU)		
Through ER	Through WR Incld Mndra	Total	Through ER	Through WR	Total	Through ER	Through WR	Total
35.56	54.26	89.81	38.82	51.09	89.91	3.26	-3.17	0.09

VI. Frequency Profile <----- % of Time Frequency ----->

<48.80	<49.0	<49.20	<49.50	<49.7	49.5 - 50.2	49.7 - 50.2	> 50.00	> 50.2
0.00	0.00	0.00	0.00	1.05	66.23	65.18	81.90	33.77

<----- 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				
50.62	21.41	49.70	14.34	50.15	0.45	0.15	50.50	0.00

VII. Voltage profile

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	404	10:52	0	12:22	22.6	22.6	0.0	0.0
Gorakhpur	400	431	16:03	414	9:41	0.0	0.0	67.7	0.4
Bareilly	400	421	21:42	402	9:41	0.0	0.0	0.1	0.0
Kanpur	400	414	21:39	400	12:26	0.0	0.0	0.0	0.0
Dadri	400	413	20:54	398	9:41	0.0	0.0	0.0	0.0
Ballabgarh	400	420	20:57	403	9:41	0.0	0.0	0.0	0.0
Bawana	400	418	20:57	401	9:41	0.0	0.0	0.0	0.0
Bassi	400	420	20:54	394	11:33	0.0	0.0	0.0	0.0
Hissar	400	408	20:57	390	9:42	0.0	0.0	0.0	0.0
Moga	400	414	20:59	391	12:06	0.0	0.0	0.0	0.0
Abdullapur	400	421	20:54	239	14:17	0.3	0.3	1.0	0.0
Nalagarh	400	421	20:57	403	9:41	0.0	0.0	0.4	0.0
Kishenpur	400	420	13:02	386	18:33	0.0	3.4	0.0	0.0
Wagoora	400	410	13:03	362	19:51	37.1	59.7	0.0	0.0

VIII. 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	491.37	778.28	499.23	1064.89	147.62	466.26
Pong	426.72	384.05	408.87	454.47	412.31	577.87	61.14	383.20
Tehri	829.79	740.04	803.35	670.00	818.65	982.26	236.00	224.00
Koteswar	612.50	598.50	NA	NA	NA	NA	NA	NA
Chamera-I	760.00	748.75	NA	NA	NA	NA	NA	NA
Rihand	268.22	252.98	261.18	500.10	263.38	617.70	NA	NA
RPS	352.80	343.81	348.44	NA	NA	NA	NA	NA
Jawahar Sagar	298.70	295.78	297.82	NA	NA	NA	NA	NA
RSD	527.91	487.91	513.40	NA	508.48	NA	64.93	217.53

* NA: Not Available

IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

XI. Weather Conditions For 16.01.2013 :

1. Light Fog in some parts of eastern UP , Haryana.

XII. Synchronisation of new generating units :

XIII. Synchronisation of new 220 / 400 / 765 KV lines and energising of bus //substation :

1.400 kV Lucknow-Balia-I LLOed at Sohawal and now Lucknow-Sohawal-I charged at 21.25 hrs & Sohawal-Balia-I charged at 21.25 hrs of 16.01.2013

XIV. Tripping of lines in pooling stations :

XV. Complete generation loss in a generating station :

Report for : 16.01.2013

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER