

पावर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरसिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 17.01.2013
Date of Reporting : 18.01.2013

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
32533	2240	34773	50.23	28573	923	29496	50.13	719.6	50.52

* 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	46.83	12.35		59.18	36.16	37.09	0.94	96.28	4.00
Haryana	65.42	0.46		65.88	31.17	27.54	-3.62	93.42	0.00
Rajasthan	83.74	4.12	7.71	95.57	74.49	69.50	-4.99	165.08	0.00
Delhi	27.70			27.70	37.30	32.95	-4.35	60.65	0.10
UP	107.99	5.58	19.20	132.77	75.95	76.68	0.73	209.44	42.53
Uttarakhand		8.09		8.09	22.91	22.19	-0.72	30.27	0.99
HP		3.60		3.60	20.34	20.61	0.27	24.21	1.20
J & K		7.02	0.00	7.02	27.90	29.42	1.52	36.44	1.70
Chandigarh				0.00	3.52	3.85	0.33	3.85	0.00
Total	331.68	41.21	26.91	399.80	329.74	319.83	-9.90	719.64	50.52

* 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	4656	600	66	-416	4191	0	92	206	-4.78
Haryana	4855	0	7	-74	3659	0	-117	-952	-10.00
Rajasthan	6879	0	-372	1129	7190	0	347	1343	39.48
Delhi	3215	0	54	-740	1404	8	-80	-1564	-24.85
UP	8421	1540	-255	338	8540	915	201	-156	-1.93
Uttarakhand	1511	0	-110	500	1161	0	-11	557	13.09
HP	1166	0	-113	370	832	0	27	466	9.34
J&K	1627	100	-254	357	1506	0	132	435	8.40
Chandigarh	204	0	-15	0	89	0	4	-31	-0.17
Total	32533	2240	-992	1464	28573	923	595	304	28.57

* 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	2066	2079	47.48	1978	45.54	1.94
	Rihand I STPS	1000	920	970	993	21.17	882	21.91	-0.75
	Rihand II STPS	1000	975	1026	1039	22.35	931	22.81	-0.46
	Rihand III STPS	500	138	105	0	2.21	92	1.84	0.38
	Dadri I STPS	840	810	620	628	15.24	635	16.67	-1.43
	Dadri II STPS	980	975	895	727	19.30	804	21.64	-2.34
	Unchahar I TPS	420	406	408	405	9.25	386	9.60	-0.35
	Unchahar II TPS	420	405	685	391	9.15	381	9.44	-0.30
	Unchahar III TPS	210	202	186	198	4.47	186	4.70	-0.24
	ISTPP (Jhajihar)	1500	980	629	608	17.03	710	13.73	3.30
	Dadri GPS	830	848	352	408	8.52	355	9.12	-0.60
	Anta GPS	419	424	229	220	5.30	221	5.80	-0.51
	Auraiya GPS	663	672	302	330	6.72	280	6.94	-0.22
	Sub Total (A)	10782	9710	8473	8026	188.19	7841	189.77	-1.58
B. NPC	NAPS	440	142	162	165	3.36	140	3.41	-0.04
	RAPS- B	440	419	460	464	10.04	418	10.06	-0.02
	RAPS- C	440	438	472	478	10.23	426	10.51	-0.28
	Sub Total (B)	1320	999	1094	1107	23.63	985	23.98	-0.35
C. NHPC	Chamera I HPS	540	550	360	0	1.74	72	1.98	-0.24
	Chamera II HPS	300	303	177	0	0.90	38	1.02	-0.12
	Chamera III HPS	231	231	137	0	0.50	21	0.58	-0.07
	Bairasuil HPS	180	182	70	0	0.38	16	0.48	-0.10
	Salal-HPS	690	126	222	0	2.90	121	2.99	-0.10
	Tanakpur-HPS	94	25	32	24	0.55	23	0.59	-0.04
	Uri-HPS	480	124	228	51	2.57	107	2.85	-0.29
	Dhauliganga-HPS	280	210	141	0	0.88	37	1.04	-0.15
	Dulhasti-HPS	390	0	0	0	0.00	0	0.00	0.00
	Sewa-II HPS	120	120	114	0	0.19	8	0.21	-0.02
Sub Total (C)	3305	1871	1481	75	10.61	442	11.74	-1.13	
D.NJPC	Nathpa Jhakri	1500	1350	1360	0	6.06	252	6.25	-0.19
	Sub Total (D)	1500	1350	1360	0	6.06	252	6.25	-0.19
E. THDC	Tehri HPS	1000	1010	993	0	9.13	380	9.80	-0.67
	Koteshwar HPS	400	400	399	183	3.18	132	3.40	-0.23
Sub Total (E)	1400	1410	1392	183	12.31	513	13.20	-0.89	
F. BBMB	Bhakra HPS	1480	663	1106	369	15.76	657	15.90	-0.14
	Dehar HPS	990	105	495	0	2.57	107	2.52	0.05
	Pong HPS	396	235	306	126	5.50	229	5.01	0.49
	Sub Total (F)	2866	1003	1907	495	23.83	993	23.43	0.40
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	134	133	3.29	137	4.55	-1.26
	Budhil HPS(IPP)	70	0	6	0	0.05	2	0.00	0.05
	Sub Total (G)	1662	0	159	133	3.86	161	5.04	-1.18
H. Total Regional Entities (A-G)	22836	16343	15866	10019	268.48	11187	273.40	-4.92	

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	831	18.63	776	
	Guru Nanak Dev TPS(Bhatinda)	440	320	329	6.98	291	
	Guru Hargobind Singh TPS(L.mbt)	920	962	960	21.22	884	
	Thermal (Total)	2620	2122	2120	46.83	1951	
	Total Hydro	1148	438	425	12.35	515	
	Total Punjab	3768	2560	2545	59.18	2466	
Haryana	Panipat TPS	1367	903	970	21.95	914	
	DCRTPP (Yamuna nagar)	600	280	280	6.64	277	
	Faridabad GPS (NTPC)	432	280	283	6.54	273	
	RGTPP (khedar) (IPP)	1200	947	793	19.97	832	
	Magnum Diesel (IPP)	25	0	0	0.00	0	
	Jhajjar(CLP)	1320	583	353	10.33	430	
	Thermal (Total)	4944	196	2679	65.42	2726	
	Total Hydro	62	20	21	0.46	19	
	Total Haryana	5006	216	2700	65.88	2745	
	Rajasthan	kota TPS	1240	1150	1154	26.02	1084
		suratgarh TPS	1500	925	1105	22.52	938
Chabra TPS		500	391	399	9.02	376	
Dholpur GPS		330	140	145	3.19	133	
Ramgarh GPS		111	76	84	1.93	80	
RAPS A (NPC)		300	204	204	4.80	200	
Barsingsar (NLC)		250	111	110	2.59	108	
Giral LTPS		250	153	81	2.92	122	
Rajwest LTPS (IPP)		675	524	479	10.75	448	
VSLP LTPS (IPP)		135	0	0	0.00	0	
Thermal (Total)		5291	3674	3761	83.74	3489	
Total Hydro		550	101	191	4.12	172	
Wind power		2191	402	189	7.13	297	
Biomass		91	22	22	0.52	22	
Solar		201	4	0	0.06	3	
Renewable/Others (Total)		2483	424	211	7.71	321	
Total Rajasthan		8324	4199	4163	95.57	3982	
UP		Anpara TPS	1630	1181	716	25.90	1079
	Obra TPS	1382	509	514	12.30	513	
	Paricha TPS	890	401	416	10.60	442	
	Panki TPS	210	63	90	1.30	54	
	Harduaganj TPS	665	248	245	5.70	238	
	Tanda TPS (NTPC)	440	400	407	9.79	408	
	Roza TPS (IPP)	1200	810	810	19.00	792	
	Anpara-C (IPP)	1200	507	580	14.06	586	
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	401	391	9.34	389	
	Thermal (Total)	8067	4520	4169	107.99	4500	
	Vishnuparyag HPS (IPP)	400	0	0	0.00	0	
	Other Hydro	527	159	188	5.58	232	
	Cogeneration	981	800	800	19.20	800	
	Total UP	9975	5479	5157	132.77	5532	
	Uttarakhand	Total Hydro	1303	426	296	8.09	337
Total Uttarakhand		1303	426	296	8.09	337	
Delhi	Raighat TPS	135	97	103	2.42	101	
	Delhi Gas Turbine	282	160	156	3.37	140	
	Pragati Gas Turbine	330	306	270	6.79	283	
	Rithala GPS	108	0	21	0.18	8	
	Bawana GPS	677	205	208	4.97	207	
	Badarpur TPS (NTPC)	705	420	500	9.98	416	
	Thermal (Total)	2237	1188	1258	27.70	1154	
	Total Delhi	2237	1188	1258	27.70	1154	
HP	Baspa HPS (IPP)	330	0	0	0.80	33	
	Malana HPS (IPP)	86	34	0	0.17	7	
	Other Hydro	589	120	74	2.63	110	
	Total HP	1005	154	74	4	150	
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	14494	16513	399.80	16658	
J. Net Inter Regional Exchange (Import (+ve)/Export (-ve))			2592	3278	72.95	3039	
Total Regional Availability(Gross)		55410	32952	29810	741.23	30885	

IV. Total Hydro Generation:

Regional Entities Hydro	10364	6159	753	53.32	2222
State Control Area Hydro	5368	1570	1515	41.21	1717
Total Regional Hydro	15731	7729	2268	94.54	3939

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	300	500	200	8.50	2.12	6.38
Gwalior-Agra (D/C)	322	543	874	0	13.54	0.00	13.54
Zerda-Kankroli	3	40	271	181	1.43	0.00	1.43
Zerda-Bhinmal	6	122	342	290	2.03	0.00	2.03
Malanpur-Auraiya	-120	-82	0	120	0.00	1.46	-1.46
Badod-Kota/Morak	-26	-15	28	60	0.00	0.12	-0.12
Mundra-Mohindergarh(HVDC)	936	943	1009	0	22.67	0.00	22.67
Sub Total WR	1521	1851			48.17	3.70	44.47
Pusauli Bypass	100	300	300	0	5.05	0.00	5.05
MZP- GKP (D/C)	20	216	400	0	5.90	0.00	5.90
Patna-Balia(D/C)	600	598	658	0	9.36	0.00	9.36
B'Sharif-Balia (D/C)	320	238	381	0	5.04	0.00	5.04
Barh - Balia(D/C)	0	0	0	0	0.00	0.00	0.00
Pusauli-Balia	-120	-71	0	120	0.00	1.61	-1.61
Gaya-Fatehpur (765 Kv)	55	57	239	0	2.70	0.00	2.70
Pusauli-Sahupuri	128	126	164	0	3.03	0.00	3.03
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	1071	1427			31.07	2.60	28.48
Total IR Exch	2592	3278			79.24	6.29	72.95

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
31.43	0.14	31.57	0.72	14.14	0.31	11.70	2.39	-2.39

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
34.99	47.08	82.07	28.48	44.47	72.95	-6.51	-2.61	-9.12

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	0.00	64.40	64.40	83.50	35.60

<----- 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				
50.78	23.22	49.77	11.21	50.17	0.62	0.19	50.80	49.89

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	412	23:17	394	6:56	0.0	0.0	0.0	0.0
Gorakhpur	400	431	20:59	414	6:52	0.0	0.0	79.2	0.4
Bareilly	400	433	23:54	406	6:29	0.0	0.0	12.6	0.4
Kanpur	400	426	22:53	398	9:34	0.0	0.0	7.3	0.0
Dadri	400	429	23:59	402	9:34	0.0	0.0	9.5	0.0
Ballabgarh	400	435	23:53	405	9:34	0.0	0.0	25.0	5.3
Bawana	400	431	23:58	405	9:37	0.0	0.0	13.7	0.1
Bassi	400	437	22:32	400	11:44	0.0	0.0	27.1	7.9
Hissar	400	420	22:54	393	9:34	0.0	0.0	0.0	0.0
Moga	400	420	23:15	392	11:45	0.0	0.0	0.0	0.0
Abdullapur	400	430	22:54	291	6:49	0.0	0.0	18.6	0.0
Nalagarh	400	427	23:18	406	11:22	0.0	0.0	7.4	0.0
Kishenpur	400	429	23:19	388	11:45	0.0	0.3	9.4	0.0
Wagoora	400	424	23:13	366	11:47	13.7	48.5	3.4	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	491.14	768.41	490.00	1053.16	143.17	449.67
Pong	426.72	384.05	408.72	454.47	412.36	577.87	68.30	365.20
Tehri	829.79	740.04	802.85	740.00	818.65	982.26	35.40	219.00
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 17.01.2013 :

1. Rain and thunderstorm in NR region.

XII. Synchronisation of new generating units :

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

XIV. Tripping of lines in pooling stations :

XV. Complete generation loss in a generating station :

Report for : 17.01.2013

पारी प्रभाती अभियंता / SHIFT CHARGE ENGINEER