

पावर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरसिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 27.01.2013
Date of Reporting : 28.01.2013

I. Regional Availability/Demand:

Demand Met	Evening Peak (19:00 Hrs) MW			Off Peak (03:00 Hrs) MW			Day Energy (Net MU)		
	Shortage	Requirement	Freq* (Hz)	Demand Met	Shortage	Requirement	Freq* (Hz)	Demand Met	Shortage
32682	2997	35679	50.14	26144	865	27009	50.46	708.0	62.09

* 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	45.07	6.99		52.06	37.57	37.26	-0.31	89.32	1.80
Haryana	60.55	0.55		61.10	30.58	29.63	-0.95	90.73	0.41
Rajasthan	89.44	4.74	0.00	94.18	79.68	80.36	0.68	174.54	0.84
Delhi	30.67			30.67	30.74	27.07	-3.67	57.73	0.00
UP	106.38	6.39	19.20	131.97	68.75	70.39	1.64	202.36	55.94
Uttarakhand		6.72		6.72	23.13	22.94	-0.19	29.67	1.31
HP		3.89		3.89	18.24	17.59	-0.64	21.48	0.10
J & K		6.54	0.00	6.54	30.75	32.48	1.73	39.03	1.70
Chandigarh				0.00	3.38	3.19	-0.19	3.19	0.00
Total	332.11	35.81	19.20	387.12	322.81	320.92	-1.89	708.04	62.09

* 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	4667	600	90	-163	3151	0	-24	129	-1.05
Haryana	4629	44	63	-230	2977	0	-271	-752	-10.42
Rajasthan	7092	0	-308	1003	6869	0	126	1164	36.32
Delhi	2955	0	-192	-831	1244	0	-180	-1699	-28.94
UP	8766	2173	-146	-149	8651	865	308	-184	-7.08
Uttarakhand	1581	80	13	571	975	0	-144	554	12.68
HP	1059	0	-116	253	651	0	-48	395	8.23
J&K	1763	100	-96	410	1538	0	-47	488	9.69
Chandigarh	171	0	-34	0	87	0	-2	-31	-0.28
Total	32682	2997	-726	865	26144	865	-282	65	19.14

* STOA figures are at sellers boundary & PX figures are at regional boundary.

III. Regional Entities :

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	1960	2103	1974	46.88	1954	46.89	0.00
Rihand I STPS	1000	925	963	838	21.20	883	21.80	-0.60
Rihand II STPS	1000	975	1033	890	22.57	940	23.20	-0.63
Rihand III STPS	500	444	475	435	10.49	437	10.55	-0.06
Dadri I STPS	840	810	600	850	14.99	625	15.33	-0.34
Dadri II STPS	980	975	750	440	19.38	807	20.83	-1.45
Unchahar I TPS	420	406	396	331	8.95	373	9.01	-0.06
Unchahar II TPS	420	405	345	308	8.51	355	8.31	0.20
Unchahar III TPS	210	202	198	153	4.35	181	4.28	0.07
ISTPP (Jhajjar)	1500	980	450	324	9.70	404	10.11	-0.42
Dadri GPS	830	848	339	344	8.26	344	8.23	0.03
Anta GPS	419	426	0	0	0.00	0	0.00	0.00
Auraiya GPS	663	680	252	312	6.44	268	6.39	0.06
Sub Total (A)	10782	10037	7904	7199	181.72	7572	184.91	-3.19
B. NPC								
NAPS	440	142	166	169	3.43	143	3.41	0.02
RAPS- B	440	426	470	471	10.27	428	10.22	0.04
RAPS- C	440	430	476	475	10.26	428	10.32	-0.06
Sub Total (B)	1320	998	1112	1115	23.96	998	23.95	0.01
C. NHPC								
Chamera I HPS	540	550	450	0	2.38	99	2.39	0.00
Chamera II HPS	300	303	110	0	0.99	41	1.00	-0.01
Chamera III HPS	231	154	64	0	0.58	24	0.60	-0.02
Bairasuil HPS	180	182	120	0	0.50	21	0.36	0.14
Salal-HPS	690	121	216	73	3.00	125	2.91	0.08
Tanakpur-HPS	94	30	26	24	0.66	27	0.68	-0.02
Uri-HPS	480	178	146	121	3.97	165	3.81	0.16
Dhauliganga-HPS	280	210	210	0	1.02	43	1.01	0.01
Dulhasti-HPS	390	0	0	0	0.00	0	0.00	0.00
Sewa-II HPS	120	120	45	0	0.32	13	0.39	-0.07
Sub Total (C)	3305	1847	1387	218	13.41	559	13.15	0.26
D. NJPC								
Nathpa Jhakri	1500	1350	1178	0	5.40	225	5.51	-0.11
Sub Total (D)	1500	1350	1178	0	5.40	225	5.51	-0.11
E. THDC								
Tehri HPS	1000	950	942	0	9.12	380	9.20	-0.08
Koteshwar HPS	400	400	400	68	3.35	140	3.40	-0.05
Sub Total (E)	1400	1350	1342	68	12.47	520	12.60	-0.13
F. BBMB								
Bhakra HPS	1480	597	1105	415	14.58	608	14.32	0.26
Dehar HPS	990	101	495	0	2.45	102	2.44	0.02
Pong HPS	396	226	306	66	5.57	232	5.01	0.56
Sub Total (F)	2866	924	1906	481	22.60	942	21.76	0.84
G. IPP(s)/JV(s)								
ADHPL HPS(IPP)	192	0	0	0	0.34	14	0.33	0.01
KWHEP HPS(IPP)	1000	0	0	0	0.00	0	0.00	0.00
Malana Stg-II HPS	100	0	35	0	0.14	6	0.14	0.00
Shree Cement TPS	300	0	131	65	2.80	117	3.01	-0.21

	Budhil HPS(IPP)	70	0	6	0	0.05	2	0.00	0.05
	Sub Total (G)	1662	0	172	65	3.32	138	3.47	-0.15
H. Total Regional Entities (A-G)		22836	16506	15001	9146	262.88	10953	265.36	-2.47

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	1260	1040	25.43	1059	
	Guru Nanak Dev TPS(Bhatinda)	440	285	295	5.90	246	
	Guru Hargobind Singh TPS(L.mbt)	920	707	516	13.74	573	
	Thermal (Total)	2620	2252	1851	45.07	1878	
	Total Hydro	1148	428	234	6.99	291	
	Total Punjab	3768	2680	2085	52.06	2169	
Haryana	Panipat TPS	1367	625	561	14.49	604	
	DCRTPP (Yamuna nagar)	600	283	287	6.68	278	
	Faridabad GPS (NTPC)	432	271	271	6.48	270	
	RGTPP (khedar) (IPP)	1200	881	938	22.46	936	
	Magnum Diesel (IPP)	25	0	0	0.00	0	
	Jhajjar(CLP)	1320	582	350	10.44	435	
	Thermal (Total)	4944	2642	2407	60.55	2523	
	Total Hydro	62	22	21	0.55	23	
		Total Haryana	5006	2664	2428	61.10	2546
Rajasthan	kota TPS	1240	1149	1146	27.88	1161	
	suratgarh TPS	1500	1094	998	28.37	1182	
	Chabra TPS	500	454	454	10.84	452	
	Dholpur GPS	330	0	0	0.00	0	
	Ramgarh GPS	111	42	44	1.09	45	
	RAPS A (NPC)	300	197	197	4.98	208	
	Barsingsar (NLC)	250	217	221	5.20	217	
	Giral LTPS	250	44	77	1.40	58	
	Rajwest LTPS (IPP)	675	360	482	9.69	404	
	VSLP LTPS (IPP)	135	0	0	0.00	0	
	Thermal (Total)	5291	3557	3619	89.44	3727	
	Total Hydro	550	199	95	4.74	197	
	Wind power	2191	5	41	0.00	0	
	Biomass	91	19	19	0.00	0	
	Solar	201	4	0	0.00	0	
	Renewable/Others (Total)	2483	24	60	0.00	0	
		Total Rajasthan	8324	3780	3774	94.18	3924
UP	Anpara TPS	1630	1361	1324	28.20	1175	
	Obra TPS	1382	527	539	11.80	492	
	Paricha TPS	890	706	684	14.30	596	
	Panki TPS	210	155	115	3.10	129	
	Harduaganj TPS	665	270	44	3.40	142	
	Tanda TPS (NTPC)	440	403	403	9.86	411	
	Roza TPS (IPP)	1200	815	792	19.49	812	
	Anpara-C (IPP)	1200	318	302	8.12	338	
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	318	362	8.12	338	
	Thermal (Total)	8067	4873	4565	106.38	4433	
	Vishnuparyag HPS (IPP)	400	69	66	1.63	68	
	Other Hydro	527	198	229	4.77	199	
	Cogeneration	981	800	800	19.20	800	
		Total UP	9975	5940	5660	131.97	5431
	Uttarakhand	Total Hydro	1303	410	209	6.72	280
Total Uttarakhand		1303	410	209	6.72	280	
Delhi	Rajghat TPS	135	106	99	2.65	111	
	Delhi Gas Turbine	282	120	119	2.93	122	
	Pragati Gas Turbine	330	314	263	7.23	301	
	Rithala GPS	108	0	0	0.00	0	
	Bawana GPS	677	211	209	5.16	215	
	Badarpur TPS (NTPC)	705	575	555	12.69	529	
	Thermal (Total)	2237	1326	1245	30.67	1278	
		Total Delhi	2237	1326	1245	30.67	1278
HP	Baspa HPS (IPP)	330	0	0	0.87	36	
	Malana HPS (IPP)	86	33	0	0.20	8	
	Other Hydro	589	138	80	2.81	117	
		Total HP	1005	171	80	4	162
J & K	Baglihar HPS (IPP)	450	132	130	3.14	131	
	Other Hydro	323	120	170	3.40	142	
	Gas/Diesel/Others	183	0	0	0.00	0	
		Total J & K	956	252	300	6.54	273
Total State Control Area Generation		32574	17223	15781	387.12	16062	
J. Net Inter Regional Exchange (Import (+ve)/Export (-ve))			2272	2407	74.19	3091	
Total Regional Availability(Gross)		55410	34496	27334	724.20	30107	

IV. Total Hydro Generation:

Regional Entities Hydro	10364	5848	767	54.36	2265
State Control Area Hydro	5368	1680	1168	35.81	1425
Total Regional Hydro	15731	7528	1935	90.17	3689

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	-200	0	200	200	2.25	0.30	1.95
Gwalior-Agra (D/C)	284	409	652	0	11.13	0.00	11.13
Zerda-Kankroli	-39	-43	147	191	0.00	0.25	-0.25
Zerda-Bhinmal	72	57	261	135	2.21	0.00	2.21
Malanpur-Auraiya	-122	-82	0	135	0.00	2.21	-2.21
Badod-Kota/Morak	-29	4	82	91	0.32	0.00	0.32
Mundra-Mohindergarh(HVDC)	1117	1118	1219	0	27.50	0.00	27.50
Sub Total WR	1083	1463			43.41	2.75	40.66
Pusauli Bypass	400	200	400	0	7.59	0.00	7.59
MZP- GKP (D/C)	150	196	360	0	5.53	0.00	5.53
Patna-Balia(D/C)	544	357	731	0	13.44	0.00	13.44
B'Sharif-Balia (D/C)	93	140	330	0	4.86	0.00	4.86
Barh - Balia(D/C)	0	0	0	0	0.00	0.00	0.00
Pusauli-Balia	-148	-83	0	160	0.00	2.09	-2.09
Gaya-Fatehpur (765 Kv)	49	48	191	0	2.59	0.00	2.59
Pusauli-Sahupuri	133	123	150	0	2.70	0.00	2.70
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-32	-37	0	48	0.00	1.09	-1.09
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sub Total ER	1189	944			36.71	3.18	33.53
Total IR Exch	2272	2407			80.12	5.93	74.19

V(B). Inter Regional Schedule & Actual Exchanges [Import (+ve)/Export (-ve)] [Corridor wise]

ISGS/LT Schedule (MU)			Bilateral Schedule (MU)		Power Exchange Shdl (MU)		Wheeling (MU)	
ER	Bhutan	Total	Through ER	Through WR	Through ER	Through WR	Through ER	Through WR
35.77	0.18	35.95	-2.08	7.14	2.75	9.49	-3.26	3.36

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
33.36	42.54	75.90	33.53	40.66	74.19	0.17	-1.88	-1.71

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	1.00	77.80	76.80	58.90	22.20

<----- 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				
50.71	0.02	49.57	22.38	50.06	0.36	0.18	50.58	49.88

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	407	2:50	398	10:02	0.0	0.0	0.0	0.0
Gorakhpur	400	436	0:04	408	10:19	0.0	0.0	43.0	1.3
Bareilly	400	429	0:01	402	10:10	0.0	0.0	15.6	0.0
Kanpur	400	423	0:03	398	11:20	0.0	0.0	0.6	0.0
Dadri	400	423	4:06	402	11:20	0.0	0.0	8.7	0.0
Ballabgarh	400	428	0:03	403	11:20	0.0	0.0	25.5	0.0
Bawana	400	427	4:06	406	11:10	0.0	0.0	25.5	0.0
Bassi	400	429	4:05	388	11:20	0.0	0.1	14.6	0.0
Hissar	400	413	4:06	392	11:10	0.0	0.0	0.0	0.0
Moga	400	414	0:02	396	6:27	0.0	0.0	0.0	0.0
Abdullapur	400	427	0:03	407	11:07	0.0	0.0	45.1	0.0
Nalagarh	400	425	0:03	404	7:30	0.0	0.0	11.4	0.0
Kishenpur	400	414	0:04	387	11:55	0.0	3.4	0.0	0.0
Wagoora	400	394	3:00	364	20:10	38.1	76.8	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	489.32	709.72	497.06	983.40	125.42	407.76
Pong	426.72	384.05	470.32	407.15	411.81	555.85	86.45	369.25
Tehri	829.79	740.04	798.15	579.00	818.65	982.26	NA	225.00
Koteshwar	612.50	598.50	610.80	4.85	NA	NA	225.00	222.00
Chamera-I	760.00	748.75	NA	NA	NA	NA	43.48	64.59
Rihand	268.22	252.98	260.30	500.10	262.98	617.70	NA	NA
RPS	352.80	343.81	NA	NA	NA	NA	NA	NA
Jawahar Sagar	298.70	295.78	NA	NA	NA	NA	NA	NA
RSD	527.91	487.91	512.11	NA	504.77	NA	61.19	35.65

* NA: Not Available

IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

XI. Weather Conditions For 27.01.2013 :

1.Normal weather in NR.

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 : 27.01.2013

पारी प्रभाती अभियंता / SHIFT CHARGE ENGINEER