

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 29.01.2013
Date of Reporting : 30.01.2013

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
33542	3372	36913	50.01	26974	1052	28026	50.18	724.9	68.95

* 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	48.23	9.80		58.03	36.62	36.68	0.06	94.71	3.67
Haryana	57.98	0.52		58.51	32.76	34.04	1.28	92.55	3.13
Rajasthan	87.56	4.54	2.79	94.88	81.35	82.84	1.49	177.72	3.40
Delhi	31.56			31.56	33.49	29.83	-3.66	61.38	0.00
UP	110.70	6.56	19.20	136.46	69.32	70.07	0.75	206.52	54.19
Uttarakhand		6.57		6.57	23.84	24.03	0.19	30.60	2.56
HP		4.10		4.10	19.18	19.08	-0.10	23.17	0.30
J & K		6.54	0.00	6.54	30.84	27.97	-2.87	34.51	1.70
Chandigarh				0.00	3.44	3.69	0.25	3.69	0.00
Total	336.02	38.63	21.99	396.64	330.84	328.22	-2.62	724.85	68.95

* 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	4744	600	-76	-191	3437	0	59	259	-2.72
Haryana	4744	231	-131	19	2992	0	-25	-423	-8.13
Rajasthan	7288	0	-181	998	7034	0	16	1235	38.80
Delhi	3164	0	-248	-832	1367	7	-181	-1821	-28.28
UP	8929	2323	-120	-126	8575	1045	202	-161	-6.52
Uttarakhand	1566	80	-10	588	1156	0	11	558	13.54
HP	1098	38	-109	252	763	0	11	395	8.23
J&K	1808	100	-83	409	1570	0	-11	487	9.65
Chandigarh	201	0	-24	0	81	0	-7	-31	-0.25
Total	33542	3372	-719	1115	26974	1052	75	499	24.32

* 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
A. NTPC	Singrauli STPS	2000	1960	2102	2100	47.52	1980	47.04	0.48
	Rihand I STPS	1000	923	998	950	21.98	916	22.14	-0.17
	Rihand II STPS	1000	975	1032	932	23.15	965	23.35	-0.20
	Rihand III STPS	500	450	477	472	10.85	452	10.73	0.11
	Dadri I STPS	840	810	600	850	15.97	665	16.16	-0.19
	Dadri II STPS	980	975	750	440	21.70	904	22.14	-0.44
	Unchahar I TPS	420	406	438	333	9.30	388	9.32	-0.02
	Unchahar II TPS	420	405	439	306	9.03	376	9.05	-0.02
	Unchahar III TPS	210	202	220	155	4.53	189	4.54	-0.01
	ISTPP (Jhajjar)	1500	980	464	390	10.27	428	10.83	-0.57
	Dadri GPS	830	848	364	308	8.42	351	8.47	-0.05
	Anta GPS	419	426	0	0	0.00	0	0.00	0.00
	Auraiva GPS	663	681	308	264	6.57	274	6.67	-0.11
	Sub Total (A)	10782	10041	8192	7500	189.26	7886	190.45	-1.19
B. NPC	NAPS	440	142	164	164	3.41	142	3.41	0.00
	RAPS- B	440	428	469	470	10.26	428	10.27	-0.01
	RAPS- C	440	430	475	477	10.23	426	10.32	-0.09
	Sub Total (B)	1320	1000	1108	1111	23.90	996	24.00	-0.10
C. NHPC	Chamera I HPS	540	550	540	0	2.26	94	2.13	0.13
	Chamera II HPS	300	204	200	0	1.01	42	1.00	0.01
	Chamera III HPS	231	173	62	0	0.65	27	0.66	-0.01
	Bairasuil HPS	180	182	120	0	0.49	20	0.44	0.04
	Salal-HPS	690	120	225	30	2.93	122	2.88	0.05
	Tanakpur-HPS	94	27	31	20	0.64	27	0.64	0.00
	Uri-HPS	480	170	232	42	3.61	150	3.47	0.13
	Dhauliganga-HPS	280	210	209	0	0.99	41	0.99	0.00
	Dulhasti-HPS	390	0	0	0	0.00	0	0.00	0.00
	Sewa-II HPS	120	120	52	0	0.38	16	0.34	0.04
	Sub Total (C)	3305	1756	1671	92	12.94	539	12.55	0.39
D.NJPC	Nathpa Jhakri	1500	1350	1082	0	5.93	247	5.54	0.39
	Sub Total (D)	1500	1350	1082	0	5.93	247	5.54	0.39
E. THDC	Tehri HPS	1000	930	941	0	9.13	380	9.20	-0.07
	Koteshwar HPS	400	400	403	89	3.62	151	3.60	0.02
	Sub Total (E)	1400	1330	1344	89	12.75	531	12.80	-0.05
F. BBMB	Bhakra HPS	1480	595	1106	418	14.54	606	14.28	0.26
	Dehar HPS	990	110	495	0	2.97	124	2.65	0.32
	Pong HPS	396	227	372	66	5.71	238	5.01	0.70
	Sub Total (F)	2866	932	1973	484	23.22	968	21.93	1.29
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	0	0	0.39	16	0.37	0.01
	KWHEP HPS(IPP)	1000	0	0	0	0.00	0	0.00	0.00
	Malana Stg-II HPS	100	0	36	0	0.15	6	0.13	0.02
	Shree Cement TPS	300	0	276	154	5.21	217	5.68	-0.47
	Budhil HPS(IPP)	70	0	6	0	0.05	2	0.00	0.05
	Sub Total (G)	1662	0	318	154	5.79	241	6.18	-0.39
H. Total Regional Entities (A-G)	22836	16409	15688	9430	273.79	11408	273.46	0.33	

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	1090	26.50	1104
	Guru Nanak Dev TPS(Bhatinda)	440	340	295	7.06	294
	Guru Hargobind Singh TPS(L.mbt)	920	705	627	14.66	611
	Thermal (Total)	2620	2305	2012	48.23	2009
	Total Hydro	1148	434	245	9.80	408
	Total Punjab	3768	2739	2257	58.03	2418
Haryana	Panipat TPS	1367	776	711	18.61	776
	DCRTPP (Yamuna nagar)	600	281	279	6.61	275
	Faridabad GPS (NTPC)	432	283	280	7.60	317
	RGTPP (khedar) (IPP)	1200	510	435	12.39	516
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	1320	588	355	12.77	532
	Thermal (Total)	4944	2438	2060	57.98	2416
	Total Hydro	62	21	21	0.52	22
	Total Haryana	5006	2459	2081	58.51	2438
	Rajasthan	kota TPS	1240	1151	1150	27.91
suratgarh TPS		1500	1096	1038	25.85	1077
Chabra TPS		500	373	455	9.12	380
Dholpur GPS		330	68	0	0.70	29
Ramgarh GPS		111	41	44	1.08	45
RAPS A (NPC)		300	197	197	4.89	204
Barsingsar (NLC)		250	220	221	5.24	218
Giral LTTPS		250	75	72	1.58	66
Rajwest LTTPS (IPP)		675	482	482	11.19	466
VSLP LTTPS (IPP)		135	0	0	0.00	0
Thermal (Total)		5291	3703	3659	87.56	3648
Total Hydro		550	149	88	4.54	189
Wind power		2191	41	303	1.95	81
Biomass		91	27	27	0.65	27
Solar		201	4	0	0.19	8
Renewable/Others (Total)		2483	68	330	2.79	116
Total Rajasthan		8324	3920	4077	94.88	3953
UP	Anpara TPS	1630	1335	1330	27.10	1129
	Obra TPS	1382	539	552	11.80	492
	Paricha TPS	890	646	598	13.50	563
	Panki TPS	210	130	70	2.20	92
	Harduaganj TPS	665	276	0	4.30	179
	Tanda TPS (NTPC)	440	405	406	9.86	411
	Roza TPS (IPP)	1200	810	819	19.70	821
	Anpara-C (IPP)	1200	537	521	12.58	524
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	405	402	9.66	402
	Thermal (Total)	8067	5083	4698	110.70	4612
	Vishnuparyag HPS (IPP)	400	70	67	1.64	69
	Other Hydro	527	138	224	4.92	205
	Cogeneration	981	800	800	19.20	800
	Total UP	9975	6091	5789	136.46	5617
Uttarakhand	Total Hydro	1303	409	235	6.57	274
	Total Uttarakhand	1303	409	235	6.57	274
Delhi	Rajghat TPS	135	104	103	2.42	101
	Delhi Gas Turbine	282	117	119	2.87	119
	Pragati Gas Turbine	330	310	268	7.36	306
	Rithala GPS	108	22	0	0.35	15
	Bawana GPS	677	221	216	5.25	219
	Badarpur TPS (NTPC)	705	575	555	13.31	554
	Thermal (Total)	2237	1349	1261	31.56	1315
	Total Delhi	2237	1349	1261	31.56	1315
HP	Baspa HPS (IPP)	330	0	0	0.92	38
	Malana HPS (IPP)	86	33	0	0.21	9
	Other Hydro	589	160	77	2.97	124
	Total HP	1005	193	77	4	171
J & K	Baglihar HPS (IPP)	450	150	150	3.14	131
	Other Hydro	323	120	170	3.40	142
	Gas/Diesel/Others	183	0	0	0.00	0
	Total J & K	956	270	320	6.54	273
Total State Control Area Generation		32574	17430	16097	396.64	16458
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			2662	2844	80.92	3372
Total Regional Availability(Gross)		55410	35780	28371	751.34	31237

IV. Total Hydro Generation:

Regional Entities Hydro	10364	6106	665	55.37	2307
State Control Area Hydro	5368	1614	1210	38.63	1541
Total Regional Hydro	15731	7720	1875	94.00	3848

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	0	150	150	100	1.35	0.76	0.59
Gwalior-Agra (D/C)	354	477	780	0	12.95	0.00	12.95
Zerda-Kankroli	20	-106	200	135	1.28	0.00	1.28
Zerda-Bhinmal	106	-15	349	80	3.54	0.00	3.54
Malanpur-Auraiya	-146	-93	0	146	0.00	2.14	-2.14
Badod-Kota/Morak	-3	-36	79	49	0.30	0.00	0.30
Mundra-Mohindergarh(HVDC)	1216	1115	1220	0	28.59	0.00	28.59
Sub Total WR	1547	1492			48.00	2.91	45.10
Pusauli Bypass	-207	200	200	267	2.15	1.69	0.46
MZP- GKP (D/C)	262	184	438	0	7.37	0.00	7.37
Patna-Balia(D/C)	556	660	771	0	16.63	0.00	16.63
B'Sharif-Balia (D/C)	192	214	332	0	5.83	0.00	5.83
Barh - Balia(D/C)	0	0	0	0	0.00	0.00	0.00
Pusauli-Balia	29	-54	69	99	0.00	0.23	-0.23
Gaya-Fatehpur (765 Kv)	179	73	250	0	3.91	0.00	3.91
Pusauli-Sahupuri	136	112	154	0	2.95	0.00	2.95
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	1115	1352			38.83	3.01	35.82
Total IR Exch	2662	2844			86.84	5.92	80.92

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
34.26	0.15	34.41	-2.20	5.67	1.84	14.73	-2.95	3.05
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
31.10	47.46	78.57	35.82	45.10	80.92	4.72	-2.37	2.35

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	3.30	91.20	87.90	44.90	8.80

Frequency (Hz)				Average Frequency Hz	Frequency Variation Index	Std. Dev.	Frequency in 15 Min Block	
Maximum		Minimum					MAX (Hz)	MIN (Hz)
Freq	Time	Freq	Time					
50.45	17.04	49.57	20.04	49.99	0.22	0.15	50.31	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	403	3:02	400	7:02	39.5	39.5	0.0	0.0
Gorakhpur	400	425	3:00	415	11:00	0.0	0.0	0.0	0.0
Bareilly	400	422	4:05	404	14:51	0.0	0.0	0.4	0.0
Kanpur	400	418	4:04	399	7:36	0.0	0.0	0.0	0.0
Dadri	400	420	4:02	402	14:51	0.0	0.0	0.0	0.0
Ballabhgarh	400	425	3:05	404	11:51	0.0	0.0	14.2	0.0
Bawana	400	424	3:02	407	11:02	0.0	0.0	14.5	0.0
Bassi	400	426	4:04	392	6:38	0.0	0.0	7.2	0.0
Hissar	400	411	3:03	394	11:06	0.0	0.0	0.0	0.0
Moga	400	411	4:03	394	11:47	0.0	0.0	0.0	0.0
Abdullapur	400	424	2:22	299	5:26	0.0	0.0	19.7	0.0
Nalagarh	400	425	2:22	403	11:49	0.0	0.0	11.9	0.0
Kishenpur	400	412	0:56	389	18:41	0.0	0.2	0.0	0.0
Wagoora	400	397	18:01	367	18:41	39.4	94.3	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 (m³/s)	Usage (m³/s)
Bhakra	513.59	445.62	489.10	709.72	496.82	971.87	126.63	408.98
Pong	426.72	384.05	407.17	407.15	411.72	555.85	90.50	380.10
Tehri	829.79	740.04	797.85	568.00	818.65	982.26	NA	225.00
Koteswar	612.50	598.50	610.70	4.95	NA	NA	225.00	231.00
Chamera-I	760.00	748.75	NA	NA	NA	NA	36.69	63.07
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 29.01.2013 :

1. Light fog in some part of Eastern UP.

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 : 29.01.2013

पारी प्रभाती अश्विनी / SHIFT CHARGE ENGINEER