

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 28.01.2013
Date of Reporting : 29.01.2013

I. Regional Availability/Demand:

Demand Met	Evening Peak (19:00 Hrs) MW			Demand Met	Off Peak (03:00 Hrs) MW			Day Energy (Net MU)	
	Shortage	Requirement	Freq* (Hz)		Shortage	Requirement	Freq* (Hz)	Demand Met	Shortage
33457	3693	37149	50.04	26408	665	27073	50.31	717.5	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	47.74	9.15		56.88	35.84	36.54	0.69	93.42	3.67
Haryana	57.45	0.53		57.98	29.59	31.07	1.48	89.04	3.13
Rajasthan	87.56	5.29	1.30	94.16	75.34	78.00	2.66	172.16	3.40
Delhi	31.17			31.17	35.45	30.13	-5.32	61.30	0.00
UP	109.11	6.27	19.20	134.57	69.23	70.67	1.44	205.24	54.19
Uttarakhand		6.27		6.27	23.66	24.33	0.67	30.60	2.56
HP		4.50		4.50	18.68	18.41	-0.26	22.91	0.30
J & K		6.54	0.00	6.54	30.85	32.54	1.69	39.08	1.70
Chandigarh				0.00	3.44	3.75	0.31	3.75	0.00
Total	333.03	38.53	20.50	392.06	322.08	325.43	3.36	717.50	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	4779	600	35	-193	3221	0	134	223	-2.21
Haryana	4787	215	197	-162	2846	0	-241	-745	-10.67
Rajasthan	7142	150	-61	1087	6960	0	337	1387	33.19
Delhi	3185	0	-199	-808	1328	0	-124	-1705	-27.24
UP	8957	2548	238	-126	8650	665	-182	-161	-6.52
Uttarakhand	1601	80	38	588	1076	0	-75	562	13.31
HP	1110	0	-89	258	659	0	-15	395	8.28
J&K	1695	100	-158	411	1582	0	-5	489	9.71
Chandigarh	201	0	-15	0	87	0	-2	-31	-0.25
Total	33457	3693	-14	1055	26408	665	-173	414	17.60

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

III. Regional Entities :

A. NTPC	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
Rihand I STPS	1000	925	1000	901	22.00	917	21.96	0.04	
Rihand II STPS	1000	975	1037	902	22.97	957	23.14	-0.18	
Rihand III STPS	500	450	473	427	10.71	446	10.69	0.03	
Dadri I STPS	840	810	600	850	14.40	600	16.72	-2.33	
Dadri II STPS	980	975	750	440	21.46	894	21.83	-0.38	
Unchahar I TPS	420	406	431	332	9.24	385	9.32	-0.08	
Unchahar II TPS	420	404	441	290	8.98	374	9.05	-0.07	
Unchahar III TPS	210	202	218	152	4.53	189	4.55	-0.02	
ISTPP (Jhajjar)	1500	980	468	346	9.94	414	10.35	-0.42	
Dadri GPS	830	848	356	331	8.52	355	8.64	-0.12	
Anta GPS	419	426	0	0	0.00	0	0.07	-0.07	
Auraiva GPS	663	680	287	265	6.92	288	6.80	0.12	
Sub Total (A)	10782	10038	8167	7310	186.90	7788	190.08	-3.17	
B. NPC	NAPS	440	142	164	170	3.41	142	3.41	0.00
RAPS- B	440	426	469	4471	10.27	428	10.22	0.04	
RAPS- C	440	430	476	475	10.23	426	10.32	-0.09	
Sub Total (B)	1320	998	1109	5116	23.91	996	23.95	-0.05	
C. NHPC	Chamera I HPS	540	550	450	0	2.32	97	2.25	0.07
Chamera II HPS	300	303	200	0	1.07	45	1.15	-0.08	
Chamera III HPS	231	154	72	0	0.57	24	0.55	0.02	
Bairasuil HPS	180	182	120	0	0.52	22	0.43	0.09	
Salal-HPS	690	107	101	45	2.64	110	2.57	0.07	
Tanakpur-HPS	94	26	31	22	0.63	26	0.63	0.00	
Uri-HPS	480	170	219	139	3.82	159	3.77	0.05	
Dhauliganga-HPS	280	210	209	0	1.22	51	1.18	0.05	
Dulhasti-HPS	390	0	0	0	0.00	0	0.00	0.00	
Sewa-II HPS	120	120	65	0	0.42	18	0.42	0.00	
Sub Total (C)	3305	1822	1467	206	13.22	551	12.94	0.28	
D.NJPC	Nathpa Jhakri	1500	1350	1327	0	5.81	242	5.50	0.31
Sub Total (D)	1500	1350	1327	0	5.81	242	5.50	0.31	
E. THDC	Tehri HPS	1000	940	937	0	9.28	387	9.20	0.08
Koteshwar HPS	400	400	401	72	3.48	145	3.50	-0.02	
Sub Total (E)	1400	1340	1338	72	12.76	532	12.70	0.06	
F. BBMB	Bhakra HPS	1480	595	1105	418	14.63	610	14.28	0.35
Dehar HPS	990	113	495	0	2.93	122	2.70	0.23	
Pong HPS	396	226	312	60	5.63	235	5.01	0.62	
Sub Total (F)	2866	933	1912	478	23.19	966	21.99	1.20	
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	0	0	0.38	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	270	71	1.11	46	4.80	-3.69	
Budhil HPS(IPP)	70	0	6	0	0.05	2	0.00	0.05	
Sub Total (G)	1662	0	312	71	1.69	70	5.30	-3.61	
H. Total Regional Entities (A-G)	22836	16481	15632	13253	267.47	11145	272.45	-4.98	

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	26.62	1109	
	Guru Nanak Dev TPS(Bhatinda)	440	340	295	7.04	293	
	Guru Hargobind Singh TPS(L.mbt)	920	707	515	14.08	587	
	Thermal (Total)	2620	2307	1850	47.74	1989	
	Total Hydro	1148	436	220	9.15	381	
	Total Punjab	3768	2743	2070	56.88	2370	
Haryana	Panipat TPS	1367	717	565	16.30	679	
	DCRTPP (Yamuna nagar)	600	282	285	6.66	277	
	Faridabad GPS (NTPC)	432	429	271	8.81	367	
	RGTPP (khedar) (IPP)	1200	585	827	14.43	601	
	Magnum Diesel (IPP)	25	0	0	0.00	0	
	Jhajjar(CLP)	1320	594	351	11.24	469	
	Thermal (Total)	4944	2607	2299	57.45	2394	
	Total Hydro	62	21	21	0.53	22	
		Total Haryana	5006	2628	2320	57.98	2416
	Rajasthan	kota TPS	1240	1144	1142	27.86	1161
suratgarh TPS		1500	1075	1058	26.05	1085	
Chabra TPS		500	455	454	10.62	442	
Dholpur GPS		330	65	75	0.63	26	
Ramgarh GPS		111	42	44	1.08	45	
RAPS A (NPC)		300	197	197	4.59	191	
Barsingsar (NLC)		250	219	221	5.23	218	
Giral LTPS		250	72	44	1.36	57	
Rajwest LTPS (IPP)		675	479	360	10.16	423	
VSLP LTPS (IPP)		135	0	0	0.00	0	
Thermal (Total)		5291	3748	3595	87.56	3648	
Total Hydro		550	174	128	5.29	220	
Wind power		2191	0	32	0.61	26	
Biomass		91	22	22	0.53	22	
Solar		201	4	0	0.16	7	
		Renewable/Others (Total)	2483	22	54	1.30	54
		Total Rajasthan	8324	3944	3777	94.16	3923
UP	Anpara TPS	1630	1199	1184	28.60	1192	
	Obra TPS	1382	472	488	11.70	488	
	Paricha TPS	890	572	594	13.60	567	
	Panki TPS	210	122	117	2.80	117	
	Harduaganj TPS	665	29	256	4.90	204	
	Tanda TPS (NTPC)	440	402	403	9.85	410	
	Roza TPS (IPP)	1200	833	783	19.69	820	
	Anpara-C (IPP)	1200	66	315	8.87	370	
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	198	364	9.10	379	
	Thermal (Total)	8067	3893	4504	109.11	4546	
	Vishnuparyag HPS (IPP)	400	66	69	1.64	68	
	Other Hydro	527	198	224	4.63	193	
	Cogeneration	981	800	800	19.20	800	
		Total UP	9975	4957	5597	134.57	5539
Uttarakhand	Total Hydro	1303	395	229	6.27	261	
	Total Uttarakhand	1303	395	229	6.27	261	
Delhi	Rajghat TPS	135	104	103	2.66	111	
	Delhi Gas Turbine	282	119	119	2.86	119	
	Pragati Gas Turbine	330	313	265	7.33	305	
	Rithala GPS	108	0	0	0.00	0	
	Bawana GPS	677	217	206	5.18	216	
	Badarpur TPS (NTPC)	705	580	555	13.14	547	
	Thermal (Total)	2237	1333	1248	31.17	1299	
		Total Delhi	2237	1333	1248	31.17	1299
HP	Baspa HPS (IPP)	330	0	0	1.22	51	
	Malana HPS (IPP)	86	35	0	0.18	7	
	Other Hydro	589	145	98	3.10	129	
	Total HP	1005	180	98	4	187	
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	16432	15639	392.06	16268	
J. Net Inter Regional Exchange (Import (+ve)/Export (-ve))			2514	2459	73.56	3065	
Total Regional Availability(Gross)		55410	34578	31351	733.10	30477	

IV. Total Hydro Generation:

Regional Entities Hydro	10364	6080	756	55.51	2313
State Control Area Hydro	5368	1656	1220	38.53	1537
Total Regional Hydro	15731	7736	1976	94.04	3850

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	-50	0	200	200	0.79	1.03	-0.24
Gwalior-Agra (D/C)	281	305	745	0	10.48	0.00	10.48
Zerda-Kankroli	-55	-89	103	169	0.00	0.58	-0.58
Zerda-Bhinmal	44	11	231	84	1.88	0.00	1.88
Malanpur-Auraiya	-92	-109	0	158	0.00	2.19	-2.19
Badod-Kota/Morak	-47	-45	47	96	0.00	0.40	-0.40
Mundra-Mohindergarh(HVDC)	1215	1116	1218	0	28.50	0.00	28.50
Sub Total WR	1296	1189			41.64	4.21	37.44
Pusauli Bypass	400	400	400	0	9.59	0.00	9.59
MZP- GKP (D/C)	108	160	380	0	5.55	0.00	5.55
Patna-Balia(D/C)	604	555	848	0	16.43	0.00	16.43
B'Sharif-Balia (D/C)	85	174	256	0	4.13	0.00	4.13
Barh - Balia(D/C)	0	0	0	0	0.00	0.00	0.00
Pusauli-Balia	-143	-113	0	153	0.00	2.74	-2.74
Gaya-Fatehpur (765 Kv)	61	12	149	28	1.50	0.00	1.50
Pusauli-Sahupuri	135	119	148	0	2.76	0.00	2.76
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	1218	1270			39.95	3.83	36.12
Total IR Exch	2514	2459			81.59	8.03	73.56

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
34.62	0.11	34.73	-3.17	4.10	3.06	9.57	-3.83	3.93
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
30.78	39.66	70.44	36.12	37.44	73.56	5.34	-2.22	3.12

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	3.20	91.30	88.10	53.20	8.70

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					
50.50	17.03	49.52	7.24	50.00	0.24	0.16	50.32	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	1:57	401	16:44	22.0	22.0	0.0	0.0
Gorakhpur	400	426	4:05	410	7:26	0.0	0.0	43.6	0.0
Bareilly	400	425	1:56	402	18:30	0.0	0.0	18.0	0.0
Kanpur	400	419	1:56	398	18:29	0.0	0.0	0.0	0.0
Dadri	400	421	1:54	401	18:25	0.0	0.0	5.1	0.0
Ballabgarh	400	428	4:01	405	11:09	0.0	0.0	23.6	0.0
Bawana	400	426	4:02	406	11:09	0.0	0.0	21.6	0.0
Bassi	400	428	4:05	392	8:17	0.0	0.0	10.2	0.0
Hissar	400	413	3:06	395	11:08	0.0	0.0	0.0	0.0
Moga	400	414	4:01	394	18:24	0.0	0.0	0.0	0.0
Abdullapur	400	427	2:14	409	18:21	0.0	0.0	36.8	0.0
Nalagarh	400	424	22:41	406	11:09	0.0	0.0	22.5	0.0
Kishenpur	400	412	1:43	385	19:33	0.0	10.7	0.0	0.0
Wagoora	400	399	13:01	358	20:02	44.4	86.1	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 28.01.2013 :

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 : 28.01.2013

पारी प्रभाती अश्विनी / SHIFT CHARGE ENGINEER