

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 12.02.2013
Date of Reporting : 13.02.2013

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
32190	2458	34647	50.05	25769	630	26399	50.34	715.9	43.79

* 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	34.99	10.38		45.37	43.62	44.99	1.37	90.36	2.85
Haryana	42.43	0.35		42.77	47.13	48.29	1.16	91.06	0.11
Rajasthan	87.30	4.64	14.39	106.32	69.47	66.75	-2.72	173.07	0.12
Delhi	27.88			27.88	33.87	31.53	-2.34	59.41	0.01
UP	107.49	5.88	19.20	132.57	73.67	74.33	0.66	206.91	38.62
Uttarakhand		9.67		9.67	20.81	21.04	0.22	30.71	0.38
HP		5.31		5.31	18.08	17.94	-0.14	23.26	0.00
J & K		6.98	0.00	6.98	33.90	30.56	-3.34	37.55	1.70
Chandigarh				0.00	3.69	3.54	-0.16	3.54	0.00
Total	300.09	43.20	33.59	376.88	344.25	338.98	-5.28	715.85	43.79

* 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	4607	600	-49	-139	2877	0	27	177	1.46
Haryana	4699	148	201	-182	2819	0	21	-876	-12.60
Rajasthan	6772	0	-503	873	6619	0	-362	878	26.70
Delhi	3087	0	-17	-1077	1452	0	-35	-1797	-32.58
UP	8457	1610	-178	-6	8597	630	234	-71	-1.86
Uttarakhand	1553	0	204	516	1068	0	-144	511	11.46
HP	1040	0	-115	120	779	0	27	380	6.28
J&K	1779	100	-193	400	1470	0	-173	476	10.11
Chandigarh	196	0	-9	-22	87	0	-16	-31	-0.37
Total	32190	2458	-660	483	25769	630	-420	-351	8.60

* 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	2110	1919	46.48	1937	46.42	0.05
	Rihand I STPS	1000	925	992	839	20.96	873	21.10	-0.14
	Rihand II STPS	1000	975	1045	787	22.13	922	22.70	-0.57
	Rihand III STPS	500	483	500	390	10.90	454	11.09	-0.19
	Dadri I STPS	840	787	715	619	16.12	672	17.24	-1.12
	Dadri II STPS	980	945	817	705	19.06	794	20.44	-1.38
	Unchahar I TPS	420	407	440	305	8.84	368	8.87	-0.04
	Unchahar II TPS	420	405	440	305	8.59	358	8.50	0.09
	Unchahar III TPS	210	202	219	153	4.30	179	4.28	0.02
	ISTPP (Jhajjar)	1500	980	422	382	9.24	385	9.21	0.03
	Dadri GPS	830	831	365	354	8.74	364	8.82	-0.08
	Anta GPS	419	418	214	215	5.21	217	5.25	-0.04
	Auraiva GPS	663	655	315	290	7.22	301	7.09	0.13
	Sub Total (A)	10782	9974	8594	7263	187.77	7824	191.00	-3.24
	B. NPC	NAPS	440	306	337	346	7.34	306	7.34
RAPS- B		440	426	464	468	10.19	424	10.22	-0.04
RAPS- C		440	430	472	478	10.21	425	10.32	-0.11
Sub Total (B)		1320	1162	1273	1292	27.73	1155	27.89	-0.16
C. NHPC	Chamera I HPS	540	550	540	0	2.72	113	2.70	0.01
	Chamera II HPS	300	204	174	0	1.51	63	1.56	-0.05
	Chamera III HPS	231	186	214	0	0.79	33	0.77	0.02
	Bairasuil HPS	180	182	60	20	0.73	30	0.80	-0.07
	Salal-HPS	690	141	315	68	3.76	157	3.43	0.32
	Tanakpur-HPS	94	35	49	28	0.77	32	0.83	-0.06
	Uri-HPS	480	281	332	308	6.43	268	6.13	0.30
	Dhauliganga-HPS	280	283	208	0	1.23	51	1.00	0.23
	Dulhasti-HPS	390	0	0	0	0.00	0	0.00	0.00
	Sewa-II HPS	120	80	83	60	1.82	76	1.86	-0.03
	Sub Total (C)	3305	1941	1975	484	19.74	823	19.07	0.67
	D.NJPC	Nathpa Jhakri	1500	1350	1342	0	7.45	311	7.28
Sub Total (D)		1500	1350	1342	0	7.45	311	7.28	0.18
E. THDC	Tehri HPS	1000	783	777	0	6.11	254	5.80	0.31
	Koteshwar HPS	400	100	101	69	2.32	96	2.40	-0.09
	Sub Total (E)	1400	883	878	69	8.42	351	8.20	0.22
F. BBMB	Bhakra HPS	1480	594	1106	357	14.54	606	14.26	0.28
	Dehar HPS	990	147	495	0	3.62	151	3.53	0.09
	Pong HPS	396	193	312	60	4.83	201	5.01	-0.18
	Sub Total (F)	2866	934	1913	417	22.99	958	22.79	0.20
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	0	0	0.32	13	0.26	0.06
	KWHEP HPS(IPP)	1000	0	225	150	4.11	171	4.15	-0.03
	Malana Stg-II HPS	100	0	31	0	0.13	5	0.11	0.02
	Shree Cement TPS	300	0	261	251	6.35	265	6.41	-0.06
	Budhil HPS(IPP)	70	0	0	0	0.00	0	0.00	0.00
	Sub Total (G)	1662	0	517	401	10.91	455	10.93	-0.01
H. Total Regional Entities (A-G)	22836	16244	16492	9926	285.01	11876	287.15	-2.14	

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	680	17.74	739
	Guru Nanak Dev TPS(Bhatinda)	440	105	105	2.38	99
	Guru Hargobind Singh TPS(L.mbt)	920	708	564	14.87	619
	Thermal (Total)	2620	1655	1349	34.99	1458
	Total Hydro	1148	529	370	10.38	433
	Total Punjab	3768	2184	1719	45.37	1890
Haryana	Panipat TPS	1367	685	630	16.07	670
	DCRTPP (Yamuna nagar)	600	557	526	13.15	548
	Faridabad GPS (NTPC)	432	0	0	0.00	0
	RGTPP (khedar) (IPP)	1200	0	0	0.00	0
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	1320	586	351	13.21	550
	Thermal (Total)	4944	1828	1507	42.43	1768
	Total Hydro	62	15	15	0.35	14
	Total Haryana	5006	1843	1522	42.77	1782
	Rajasthan	kota TPS	1240	1134	1091	27.24
suratgarh TPS		1500	950	953	24.52	1022
Chabra TPS		500	421	399	9.91	413
Dholpur GPS		330	133	131	3.06	128
Ramgarh GPS		111	40	43	1.09	45
RAPS A (NPC)		300	185	185	4.87	203
Barsingsar (NLC)		250	204	205	4.86	203
Giral LTPS		250	0	0	0.00	0
Rajwest LTPS (IPP)		675	561	480	11.75	490
VSLP LTPS (IPP)		135	0	0	0.00	0
Thermal (Total)		5291	3628	3487	87.30	3638
Total Hydro		550	151	89	4.64	193
Wind power		2191	344	867	13.76	573
Biomass		91	20	20	0.47	20
Solar		201	0	0	0.15	6
Renewable/Others (Total)		2483	364	887	14.39	599
Total Rajasthan		8324	4143	4463	106.32	4430
UP		Anpara TPS	1630	1338	1385	29.10
	Obra TPS	1382	409	552	10.70	446
	Paricha TPS	890	651	700	14.50	604
	Panki TPS	210	70	70	1.40	58
	Harduaganj TPS	665	206	205	4.50	188
	Tanda TPS (NTPC)	440	403	405	9.88	412
	Roza TPS (IPP)	1200	718	702	18.48	770
	Anpara-C (IPP)	1200	457	452	10.09	420
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	301	389	8.85	369
	Thermal (Total)	8067	4553	4860	107.49	4479
	Vishnuparyag HPS (IPP)	400	72	74	1.69	70
	Other Hydro	527	194	127	4.19	175
	Cogeneration	981	800	800	19.20	800
	Total UP	9975	5619	5861	132.57	5454
	Uttarakhand	Total Hydro	1303	356	328	9.67
Total Uttarakhand		1303	356	328	9.67	403
Delhi	Rajghat TPS	135	104	103	2.76	115
	Delhi Gas Turbine	282	87	85	2.09	87
	Pragati Gas Turbine	330	307	265	7.49	312
	Rithala GPS	108	0	0	0.00	0
	Bawana GPS	677	286	211	6.07	253
	Badarpur TPS (NTPC)	705	405	405	9.48	395
	Thermal (Total)	2237	1189	1069	27.88	1162
	Total Delhi	2237	1189	1069	27.88	1162
	HP	Baspa HPS (IPP)	330	30	0	0.94
Malana HPS (IPP)		86	33	0	0.21	9
Other Hydro		589	179	127	4.16	173
Total HP		1005	242	127	5.31	221
J & K	Baglihar HPS (IPP)	450	150	148	3.58	149
	Other Hydro	323	95	130	3.40	142
	Gas/Diesel/Others	183	0	0	0.00	0
	Total J & K	956	245	278	6.98	291
Total State Control Area Generation		32574	15821	15367	376.88	15633
J. Net Inter Regional Exchange (Import (+ve)/Export (-ve))			2565	1462	62.24	2593
Total Regional Availability(Gross)		55410	34878	26755	724.14	30102

IV. Total Hydro Generation:

Regional Entities Hydro	10364	6364	1120	63.17	2632
State Control Area Hydro	5368	1732	1334	43.20	1730
Total Regional Hydro	15731	8096	2454	106.37	4362

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	-200	200	300	0.84	2.36	-1.52
Gwalior-Agra (D/C)	372	333	771	0	10.08	0.00	10.08
Zerda-Kankroli	-43	-271	103	323	0.00	1.98	-1.98
Zerda-Bhinmal	25	-210	239	304	0.01	0.00	0.01
Malanpur-Auraiya	-124	-102	0	136	0.00	2.06	-2.06
Badod-Kota/Morak	-55	-149	65	170	0.00	1.10	-1.10
Mundra-Mohindergarh(HVDC)	1269	1267	1269	0	30.74	0.00	30.74
Sub Total WR	1644	668			41.67	7.49	34.18
Pusauli Bypass	100	200	400	0	4.63	0.00	4.63
MZP- GKP (D/C)	24	24	352	0	3.25	0.00	3.25
Patna-Balia(D/C)	596	523	792	0	12.95	0.00	12.95
B'Sharif-Balia (D/C)	179	108	389	0	4.83	0.00	4.83
Barh - Balia(D/C)	0	0	0	0	0.00	0.00	0.00
Pusauli-Balia	-129	-133	63	230	0.00	0.81	-0.81
Gaya-Fatehpur (765 Kv)	30	-55	91	129	1.03	0.00	1.03
Pusauli-Sahupuri	121	127	158	0	3.12	0.00	3.12
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	0	0	0	0	0.00	0.93	-0.93
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sub Total ER	921	794			29.80	1.74	28.06
Total IR Exch	2565	1462			71.47	9.23	62.24

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
34.55	0.43	34.98	-1.64	0.17	0.14	-1.61	4.22	-4.22
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
37.70	39.72	77.42	28.06	34.18	62.24	-9.64	-5.54	-15.18

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	0.40	78.20	77.80	62.20	21.80

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					
50.49	4.04	49.64	21.06	50.08	0.30	0.16	50.47	49.86

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	410	2:49	410	11:50	24.6	24.6	0.0	0.0
Gorakhpur	400	431	23:45	411	11:57	0.0	0.0	56.9	1.1
Bareilly	400	424	23:23	401	11:47	0.0	0.0	4.9	0.0
Kanpur	400	421	4:03	395	7:18	0.0	0.0	0.3	0.0
Dadri	400	424	4:03	399	8:37	0.0	0.0	11.6	0.0
Ballabhgarh	400	429	4:03	400	8:39	0.0	0.0	27.3	0.0
Bawana	400	428	4:04	402	11:11	0.0	0.0	27.0	0.0
Bassi	400	429	4:04	387	6:26	0.0	1.0	9.2	0.0
Hissar	400	418	4:04	390	11:13	0.0	0.0	0.0	0.0
Moga	400	418	4:03	395	7:14	0.0	0.0	0.0	0.0
Abdullapur	400	424	0:19	288	15:01	0.1	0.1	10.0	0.0
Nalagarh	400	425	3:01	402	11:17	0.0	0.0	20.7	0.0
Kishenpur	400	418	4:03	392	7:20	0.0	0.0	0.0	0.0
Wagoora	400	402	4:02	374	7:20	6.1	49.1	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	486.93	644.48	492.70	817.98	185.90	404.99
Pong	426.72	384.05	405.49	362.07	410.12	504.32	88.04	329.35
Tehri	829.79	740.04	792.15	465.00	818.65	982.26	52.19	156.00
Koteswar	612.50	598.50	610.30	4.69	NA	NA	156.00	154.00
Chamera-I	760.00	748.75	NA	NA	NA	NA	61.53	72.96
Rihand	268.22	252.98	259.72	500.10	262.22	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	510.43	NA	500.76	NA	92.03	172.82

* NA: Not Available

IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

XI. Weather Conditions For 12.02.2013 :

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 : 12.02.2013

पारी प्रभाती अशियंता / SHIFT CHARGE ENGINEER