

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 15.02.2013
Date of Reporting : 16.02.2013

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
29788	1710	31498	50.16	23863	0	23863	50.29	664.1	40.46

* 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	38.57	9.89		48.46	44.25	45.15	0.90	93.61	1.80
Haryana	46.20	0.39		46.58	42.99	38.33	-4.66	84.91	0.00
Rajasthan	63.90	4.50	15.25	83.65	64.03	58.99	-5.04	142.64	0.00
Delhi	26.83			26.83	32.16	31.71	-0.45	58.53	0.04
UP	92.50	5.68	19.20	117.38	71.94	70.38	-1.56	187.77	36.42
Uttarakhand		9.66		9.66	20.76	21.62	0.87	31.28	0.23
HP		4.80		4.80	18.55	19.10	0.55	23.90	0.27
J & K		6.99	0.00	6.99	32.30	31.03	-1.27	38.02	1.70
Chandigarh				0.00	3.63	3.48	-0.14	3.48	0.00
Total	267.99	41.92	34.45	344.35	330.59	319.79	-10.80	664.14	40.46

* 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	4519	600	25	-134	3336	0	195	256	1.30
Haryana	4125	0	25	-162	2942	0	-550	-444	-10.38
Rajasthan	6258	0	-480	832	5072	0	-627	880	28.09
Delhi	3076	0	-23	-1110	1335	0	-6	-1799	-33.40
UP	7123	1010	-504	-6	7830	0	-203	-71	-1.86
Uttarakhand	1612	0	109	517	1066	0	-117	489	11.27
HP	1101	0	68	96	746	0	11	297	5.34
J&K	1787	100	-132	400	1443	0	-138	374	8.74
Chandigarh	187	0	-8	-26	93	0	0	-42	-0.41
Total	29788	1710	-921	407	23863	0	-1435	-59	8.69

* 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	2099	1477	43.49	1812	43.72	-0.23
	Rihand I STPS	1000	854	1015	956	20.93	872	18.71	2.21
	Rihand II STPS	1000	975	1030	1031	22.07	920	20.86	1.21
	Rihand III STPS	500	485	508	378	11.04	460	10.50	0.54
	Dadri I STPS	840	807	766	617	14.88	620	15.30	-0.42
	Dadri II STPS	980	969	814	698	18.83	785	19.98	-1.15
	Unchahar I TPS	420	407	389	316	7.80	325	7.71	0.09
	Unchahar II TPS	420	405	345	305	7.48	312	7.39	0.09
	Unchahar III TPS	210	202	174	156	3.71	155	3.69	0.02
	ISTPP (Jhajjar)	1500	980	340	394	8.72	364	9.05	-0.32
	Dadri GPS	830	829	342	351	8.13	339	8.24	-0.10
	Anta GPS	419	417	191	212	5.21	217	5.30	-0.09
	Auraiva GPS	663	664	280	277	6.83	284	6.66	0.17
	Sub Total (A)	10782	9955	8293	7168	179.12	7463	177.11	2.01
B. NPC	NAPS	440	304	338	339	7.21	300	7.30	-0.09
	RAPS- B	440	424	465	471	10.19	425	10.18	0.01
	RAPS- C	440	430	473	478	10.23	426	10.32	-0.10
	Sub Total (B)	1320	1158	1276	1288	27.62	1151	27.79	-0.17
C. NHPC	Chamera I HPS	540	550	540	0	2.68	112	2.70	-0.02
	Chamera II HPS	300	204	161	0	1.10	46	1.13	-0.03
	Chamera III HPS	231	231	150	0	0.65	27	0.63	0.02
	Bairasuil HPS	180	182	20	10	0.78	33	0.75	0.04
	Salal-HPS	690	133	304	70	3.37	140	2.94	0.42
	Tanakpur-HPS	94	32	32	28	0.72	30	0.77	-0.05
	Uri-HPS	480	261	316	140	5.81	242	5.84	-0.03
	Dhauliganga-HPS	280	283	134	0	0.63	26	0.58	0.06
	Dulhasti-HPS	390	0	0	0	0.00	0	0.00	0.00
	Sewa-II HPS	120	80	33	40	1.80	75	1.82	-0.02
	Sub Total (C)	3305	1956	1690	288	17.54	731	17.16	0.38
D.NJPC	Nathpa Jhakri	1500	1350	1331	0	7.02	293	6.95	0.07
	Sub Total (D)	1500	1350	1331	0	7.02	293	6.95	0.07
E. THDC	Tehri HPS	1000	890	893	0	5.76	240	5.80	-0.04
	Koteshwar HPS	400	100	101	101	2.22	93	2.30	-0.08
	Sub Total (E)	1400	990	994	101	7.98	333	8.10	-0.12
F. BBMB	Bhakra HPS	1480	600	1157	440	14.59	608	14.39	0.20
	Dehar HPS	990	183	495	0	4.82	201	4.39	0.43
	Pong HPS	396	199	312	60	4.92	205	5.01	-0.09
	Sub Total (F)	2866	982	1964	500	24.33	1014	23.78	0.55
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	0	0	0.38	16	0.44	-0.06
	KWHEP HPS(IPP)	1000	0	160	0	3.42	142	3.53	-0.11
	Malana Stg-II HPS	100	0	30	0	0.12	5	0.11	0.01
	Shree Cement TPS	300	0	269	247	6.34	264	6.40	-0.06
	Budhil HPS(IPP)	70	0	0	0	0.00	0	0.00	0.00
	Sub Total (G)	1662	0	459	247	10.26	428	10.48	-0.22
H. Total Regional Entities (A-G)	22836	16391	16007	9592	273.87	11411	271.38	2.49	

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	992	890	21.63	901
	Guru Nanak Dev TPS(Bhatinda)	440	120	105	2.46	102
	Guru Hargobind Singh TPS(L.mbt)	920	688	553	14.49	604
	Thermal (Total)	2620	1800	1548	38.57	1607
	Total Hydro	1148	421	356	9.89	412
	Total Punjab	3768	2221	1904	48.46	2019
Haryana	Panipat TPS	1367	678	634	15.48	645
	DCRTPP (Yamuna nagar)	600	560	520	12.99	541
	Faridabad GPS (NTPC)	432	0	0	0.00	0
	RGTPP (khedar) (IPP)	1200	349	340	8.74	364
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	1320	0	352	8.98	374
	Thermal (Total)	4944	1587	1846	46.20	1925
	Total Hydro	62	16	14	0.39	16
	Total Haryana	5006	1603	1860	46.58	1941
	Rajasthan	kota TPS	1240	1057	821	21.55
suratgarh TPS		1500	699	653	12.89	537
Chabra TPS		500	200	196	5.09	212
Dholpur GPS		330	118	78	1.56	65
Ramgarh GPS		111	40	43	1.08	45
RAPS A (NPC)		300	197	197	4.89	204
Barsingsar (NLC)		250	205	205	4.71	196
Giral LTPS		250	0	0	0.00	0
Rajwest LTPS (IPP)		675	599	565	12.13	506
VSLP LTPS (IPP)		135	0	0	0.00	0
Thermal (Total)		5291	3115	2758	63.90	2662
Total Hydro		550	124	126	4.50	188
Wind power		2191	708	904	14.50	604
Biomass		91	25	25	0.59	25
Solar		201	4	0	0.16	7
Renewable/Others (Total)		2483	733	929	15.25	635
Total Rajasthan		8324	3972	3813	83.65	3485
UP		Anpara TPS	1630	1065	1151	24.30
	Obra TPS	1382	187	381	7.30	304
	Paricha TPS	890	424	636	13.20	550
	Panki TPS	210	0	0	0.00	0
	Harduaganj TPS	665	250	242	5.00	208
	Tanda TPS (NTPC)	440	298	340	7.70	321
	Roza TPS (IPP)	1200	662	635	16.90	704
	Anpara-C (IPP)	1200	438	281	10.15	423
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	294	361	7.94	331
	Thermal (Total)	8067	3618	4027	92.50	3854
	Vishnuparyag HPS (IPP)	400	69	71	1.66	69
	Other Hydro	527	149	127	4.02	168
	Cogeneration	981	800	800	19.20	800
	Total UP	9975	4636	5025	117.38	4822
	Uttarakhand	Total Hydro	1303	457	374	9.66
Total Uttarakhand		1303	457	374	9.66	403
Delhi	Rajghat TPS	135	105	104	2.40	100
	Delhi Gas Turbine	282	87	85	2.03	85
	Pragati Gas Turbine	330	305	259	7.18	299
	Rithala GPS	108	0	0	0.00	0
	Bawana GPS	677	287	214	6.17	257
	Badarpur TPS (NTPC)	705	410	410	9.05	377
	Thermal (Total)	2237	1194	1072	26.83	1118
	Total Delhi	2237	1194	1072	26.83	1118
	HP	Baspa HPS (IPP)	330	29	0	0.96
Malana HPS (IPP)		86	32	0	0.20	8
Other Hydro		589	166	116	3.64	152
Total HP		1005	227	116	4.80	200
J & K	Baglihar HPS (IPP)	450	150	148	3.59	150
	Other Hydro	323	95	130	3.40	142
	Gas/Diesel/Others	183	0	0	0.00	0
	Total J & K	956	245	278	6.99	291
Total State Control Area Generation		32574	14555	14442	344.35	14279
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			2003	1903	74.35	3098
Total Regional Availability(Gross)		55410	32565	25937	692.57	28788

IV. Total Hydro Generation:

Regional Entities Hydro	10364	6169	889	60.80	2533
State Control Area Hydro	5368	1639	1391	41.92	1677
Total Regional Hydro	15731	7808	2280	102.71	4210

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	-100	-500	200	500	0.96	2.28	-1.32
Gwalior-Agra (D/C)	213	464	848	0	13.20	0.00	13.20
Zerda-Kankroli	-226	-202	56	295	0.00	2.67	-2.67
Zerda-Bhinmal	-202	-131	303	205	0.00	0.79	-0.79
Malanpur-Auraiya	-102	-36	0	102	0.00	0.83	-0.83
Badod-Kota/Morak	-106	-202	0	222	0.00	1.06	-1.06
Mundra-Mohindergarh(HVDC)	1243	1262	1267	0	30.43	0.00	30.43
Sub Total WR	720	655			44.59	7.63	36.96
Pusauli Bypass	400	250	400	0	7.98	0.00	7.98
MZP- GKP (D/C)	196	160	348	0	5.27	0.00	5.27
Patna-Balia(D/C)	609	591	936	0	17.29	0.00	17.29
B'Sharif-Balia (D/C)	195	199	358	0	5.85	0.00	5.85
Barh - Balia(D/C)	0	0	0	0	0.00	0.00	0.00
Pusauli-Balia	-165	-111	0	224	0.00	2.03	-2.03
Gaya-Fatehpur (765 Kv)	20	69	130	0	1.25	0.00	1.25
Pusauli-Sahupuri	63	130	144	0	2.70	0.00	2.70
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-35	-40	0	42	0.00	0.92	-0.92
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sub Total ER	1283	1248			40.34	2.95	37.39
Total IR Exch	2003	1903			84.93	10.58	74.35

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
35.36	0.00	35.36	-1.75	2.25	-0.24	-1.94	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
37.59	41.23	78.82	37.39	36.96	74.35	-0.20	-4.27	-4.47

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	0.60	81.00	80.40	72.40	19.00

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					
50.57	23.59	49.66	7.48	50.08	0.30	0.15	50.58	49.90

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	415	23:48	400	10:31	0.0	0.0	0.0	0.0
Gorakhpur	400	432	23:20	413	12:04	0.0	0.0	49.2	4.2
Bareilly	400	430	23:44	395	16:18	0.0	0.0	28.0	0.0
Kanpur	400	424	4:02	401	11:43	0.0	0.0	10.3	0.0
Dadri	400	427	23:56	402	11:43	0.0	0.0	8.4	0.0
Ballabgarh	400	433	23:56	405	11:43	0.0	0.0	36.6	1.3
Bawana	400	431	23:57	407	9:28	0.0	0.0	31.3	0.1
Bassi	400	434	23:59	399	11:43	0.0	0.0	33.8	3.2
Hissar	400	421	23:55	395	17:58	0.0	0.0	0.3	0.0
Moga	400	421	23:59	0	10:56	33.3	33.3	0.1	0.0
Abdullapur	400	430	23:58	403	6:56	0.0	0.0	16.4	0.0
Nalagarh	400	429	2:29	402	7:20	0.0	0.0	18.7	0.0
Kishenpur	400	416	4:30	395	12:06	0.0	0.0	0.0	0.0
Wagoora	400	403	4:30	378	12:06	0.7	63.2	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 15.02.2013 :

1.Rains in Punjab , Haryana , Rajasthan , Delhi & 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 : 15.02.2013

पारी प्रभाती अश्विनी / SHIFT CHARGE ENGINEER