

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 17.02.2012
Date of Reporting : 18.02.2012

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
31829	2435	34264	49.91	26739	650	27389	50.22	717.0	44.94

* 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	48.31	11.98		60.28	40.12	41.89	1.77	102.17	2.67
Haryana	59.01	0.58		59.59	26.56	39.29	12.73	98.88	5.48
Rajasthan	90.46	4.38	19.25	114.08	45.42	48.40	2.98	162.48	1.31
Delhi	30.61			30.61	36.14	31.17	-4.97	61.78	0.14
UP	85.93	6.77	14.40	107.10	87.12	91.98	4.85	199.08	31.16
Uttarakhand		9.56		9.56	18.21	19.87	1.66	29.43	1.76
HP		3.76		3.76	19.73	20.75	1.02	24.51	0.13
J & K		4.48	0.00	4.48	25.51	30.48	4.97	34.97	2.30
Chandigarh				0.00	3.58	3.70	0.12	3.70	0.00
Total	314.32	41.50	33.65	389.47	302.38	327.52	25.14	716.99	44.94

* 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	4554	150	-188	-287	3882	0	7	-407	-6.66
Haryana	4454	373	837	-131	3871	0	384	-131	-3.15
Rajasthan	6521	0	150	12	6512	0	180	62	4.27
Delhi	3211	0	-24	-175	1403	0	-114	-567	-7.87
UP	8898	1610	77	265	7828	650	38	265	6.36
Uttarakhand	1320	150	44	350	1024	0	19	350	8.40
HP	1133	2	-249	163	737	0	95	323	6.89
J&K	1543	150	104	261	1386	0	229	268	5.99
Chandigarh	195	0	-13	0	96	0	13	-41	-0.33
Total	31829	2435	738	458	26739	650	852	121	13.90

* 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	1765	1887	1788	42.50	1771	41.93	0.57
	Rihand I STPS	1000	920	1000	937	22.01	917	21.74	0.27
	Rihand II STPS	1000	975	1040	985	23.28	970	22.94	0.34
	Dadri I STPS	840	798	630	467	12.99	541	13.16	-0.16
	Dadri II STPS	980	976	1010	742	21.33	889	21.96	-0.63
	Unchahar I TPS	440	405	438	344	9.47	395	9.38	0.10
	Unchahar II TPS	440	332	314	351	7.68	320	7.38	0.30
	Unchahar III TPS	210	202	220	174	4.68	195	4.59	0.09
	ISTPP (Jhajjar)	1000	214	0	502	4.16	173	5.08	-0.92
	Dadri GPS	830	846	746	527	15.25	635	15.50	-0.26
	Anta GPS	419	429	342	341	8.07	336	7.88	0.18
	Auraiya GPS	663	654	548	403	11.38	474	11.18	0.20
	Sub Total (A)	9822	8517	8175	7561	182.80	7617	182.72	0.08
	B. NPC	NAPS	440	139	162	162	3.39	141	3.34
RAPS- B		440	425	471	473	10.21	425	10.20	0.01
RAPS- C		440	420	473	478	10.25	427	10.08	0.17
Sub Total (B)		1320	984	1106	1113	23.85	994	23.62	0.23
C. NHPC	Chamera I HPS	540	534	540	0	4.44	185	4.36	0.08
	Chamera II HPS	300	297	218	0	1.51	63	1.50	0.01
	Bairasuil HPS	180	120	120	0	1.20	50	1.26	-0.06
	Salal-HPS	690	161	299	35	3.37	140	3.66	-0.30
	Tanakpur-HPS	94	28	28	18	0.54	23	0.56	-0.02
	Uri-HPS	480	226	237	164	5.51	230	5.41	0.10
	Dhauliganga-HPS	280	140	140	0	0.84	35	0.82	0.02
	Dulhasti-HPS	390	0	0	0	0.00	0	0.00	0.00
	Sewa-II HPS	120	119	121	80	1.88	79	1.90	-0.02
	Sub Total (C)	3074	1625	1703	297	19.29	804	19.48	-0.18
D. NJPC	Nathpa Jhakri	1500	1133	1600	0	6.16	256	6.00	0.16
	Sub Total (D)	1500	1133	1600	0	6.16	256	6.00	0.16
E. THDC	Tehri HPS	1000	758	684	0	8.66	361	8.75	-0.09
	Koteshwar HPS	200	158	284	0	3.25	135	3.20	0.05
	Sub Total (E)	1200	916	968	0	11.91	496	11.95	-0.04
F. BBMB	Bhakra HPS	1480	770	996	417	18.85	785	18.48	0.37
	Dehar HPS	990	113	495	0	2.77	115	2.71	0.06
	Pong HPS	396	212	366	60	5.35	223	5.09	0.26
	Sub Total (F)	2866	1095	1857	477	26.97	1124	26.28	0.69
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	0	0	0.24	10	0.23	0.01
	KWHEP HPS(IPP)	1000	0	552	0	3.38	141	3.36	0.02
	Malana Stg-II HPS	100	0	0	0	0.00	0	0.00	0.00
	Shree Cement TPS	150	0	136	126	3.09	129	3.18	-0.09
	Sub Total (G)	1442	0	688	126	6.71	280	6.77	-0.06
H. Total Regional Entities (A-G)	21225	14271	16097	9574	277.69	11571	276.82	0.87	

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	1045	1045	22.35	931	
	Guru Nanak Dev TPS(Bhatinda)	440	218	218	4.73	197	
	Guru Hargobind Singh TPS(L.mbt)	920	971	959	21.22	884	
	Thermal (Total)	2620	2234	2222	48.31	2013	
	Total Hydro	1148	384	316	11.98	499	
	Total Punjab	3768	2618	2538	60.28	2512	
Haryana	Panipat TPS	1360	872	869	21.27	886	
	DCRTPP (Yamuna nagar)	600	278	275	6.83	285	
	Faridabad GPS (NTPC)	432	427	430	10.01	417	
	RGTPP (kheldar) (IPP)	1200	721	845	20.90	871	
	Magnum Diesel (IPP)	25	0	0	0.00	0	
	Jhajjar(CLP)	660	0	0	0.00	0	
	Thermal (Total)	4277	2298	2419	59.01	2459	
	Total Hydro	62	21	23	0.58	24	
	Total Haryana	4339	2319	2442	59.59	2483	
Rajasthan	kota TPS	1240	1168	1125	27.38	1141	
	suratgarh TPS	1500	1193	1360	31.05	1294	
	Chabra TPS	500	449	453	10.28	428	
	Dholpur GPS	330	190	227	5.13	214	
	Ramgarh GPS	113	44	44	1.09	46	
	RAPS A (NPC)	300	181	185	4.53	189	
	Barsingsar (NLC)	250	116	115	2.60	108	
	Giral LTPS (IPP)	250	0	0	0.00	0	
	Rajwest LTPS (IPP)	540	335	345	8.40	350	
	VSLP LTPS (IPP)	135	0	0	0.00	0	
	Thermal (Total)	5158	3676	3854	90.46	3769	
	Total Hydro	550	171	149	4.38	182	
	Wind power	1294	469	729	13.87	578	
	Biomass	71	42	42	1.00	42	
	Solar	50	0	0	0.00	0	
	Renewable/Others (Total)	1365	511	771	19.25	802	
	Total Rajasthan	7073	4358	4774	114.08	4754	
	UP	Anpara TPS	1630	1381	1336	32.90	1371
		Obra TPS	1442	599	600	14.30	596
Paricha TPS		640	154	211	4.70	196	
Panki TPS		210	171	180	4.20	175	
Harduaganj TPS		415	265	266	6.00	250	
Tanda TPS (NTPC)		440	300	298	6.00	250	
Roza TPS (IPP)		900	549	432	7.32	305	
Anpara-C (IPP)		1200	433	324	8.73	364	
Bajaj Energy Pvt.Ltd(IPP) TPS		180	67	81	1.78	74	
Thermal (Total)		7057	3919	3728	85.93	3581	
Vishnuparyag HPS (IPP)		400	74	69	1.70	71	
Other Hydro		527	277	0	5.07	211	
Cogeneration		951	600	600	14.40	600	
Total UP		8935	4870	4397	107.10	4392	
Uttarakhand		Total Hydro	1303	478	314	9.56	398
	Total Uttarakhand	1303	478	314	9.56	398	
Delhi	Rajghat TPS	135	103	106	2.37	99	
	Delhi Gas Turbine	282	81	80	1.91	80	
	Pragati Gas Turbine	330	307	265	7.28	303	
	Rithala GPS	108	13	13	0.56	23	
	Bawana GPS	440	180	46	4.46	186	
	Badarpur TPS (NTPC)	705	675	550	14.05	585	
	Thermal (Total)	2000	1359	1177	30.61	1276	
	Total Delhi	2000	1359	1177	30.61	1276	
HP	Baspa HPS (IPP)	330	0	0	0.98	41	
	Malana HPS (IPP)	101	0	0	0.12	5	
	Other Hydro	571	141	51	2.66	111	
	Total HP	1002	141	51	4	157	
J & K	Baglihar HPS (IPP)	450	112	110	2.72	113	
	Other Hydro	323	82	124	1.76	73	
	Gas/Diesel/Others	183	0	0	0.00	0	
	Total J & K	956	194	234	4.48	187	
Total State Control Area Generation		29376	16337	15927	389.47	16157	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			1427	2083	68.25	2844	
Total Regional Availability(Gross)		50601	33861	27584	735.41	30571	

IV. Total Hydro Generation:

Regional Entities Hydro	10083	6816	900	71.04	2960
State Control Area Hydro	5365	1666	1087	39.80	1659
Total Regional Hydro	15447	8482	1987	110.85	4619

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	100	100	0	2.41	0.00	2.41
Gwalior-Agra (D/C)	389	780	1149	0	21.35	0.00	21.35
Zerda-Kankroli	-129	-152	152	119	0.39	0.00	0.39
Zerda-Bhinmal	-74	-88	232	107	1.51	0.00	1.51
Malanpur-Auraiya	-100	-69	0	133	0.00	1.30	-1.30
Badod-Kota/Morak	-9	-27	53	27	0.17	0.00	0.17
Sub Total WR	177	544			25.83	1.30	24.53
Pusauli Bypass	100	199	298	0	3.85	0.00	3.85
MZP- GKP (D/C)	332	469	840	0	13.56	0.00	13.56
Patna-Balia(D/C)	210	452	517	0	9.31	0.00	9.31
B'Sharif-Balia (D/C)	287	348	674	0	9.35	0.00	9.35
Barh - balia(D/C)	237	0	462	0	5.59	0.00	5.59
Pusauli-Sahupuri	114	103	159	0	2.73	0.00	2.73
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-30	-32	0	48	0.00	0.66	-0.66
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sub Total ER	1250	1539			44.38	0.66	43.72
Total IR Exch	1427	2083			70.21	1.96	68.25

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
23.42	0.18	23.60	5.64	10.40	-0.18	8.77	2.84	-2.84

Total IR Schedule (MU)			Total IR Actual (MU)			Net IR UI (MU)		
Through ER	Through WR	Total	Through ER	Through WR	Total	Through ER	Through WR	Total
31.90	12.34	44.24	43.72	24.53	68.25	11.82	12.19	24.01

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	4.10	24.10	94.60	75.60	21.60	1.30

<----- 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					
50.34	3.07	49.25	9.20	49.84	0.59	0.19	50.26	49.56

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	406	03:06	397	14:12	0.0	0.0	0.0	0.0
Gorakhpur	400	428	18:02	406	06:33	0.0	0.0	26.1	0.0
Bareilly	400	421	03:08	397	14:36	0.0	0.0	0.1	0.0
Kanpur	400	416	03:05	397	11:11	0.0	0.0	0.0	0.0
Dadri	400	422	04:06	397	14:36	0.0	0.0	2.6	0.0
Ballabgarh	400	423	03:05	397	14:36	0.0	0.0	10.4	0.0
Bawana	400	421	23:56	403	16:50	0.0	0.0	0.6	0.0
Bassi	400	421	05:05	394	14:18	0.0	0.0	0.2	0.0
Hissar	400	411	20:37	403	22:18	0.0	0.0	0.0	0.0
Moga	400	425	05:06	398	15:42	0.0	0.0	7.7	0.0
Abdullapur	400	421	21:52	400	12:56	0.1	0.1	1.5	0.0
Nalagarh	400	421	20:32	416	20:47	0.0	0.0	7.7	0.0
Kishenpur	400	421	05:02	388	14:19	0.0	1.0	0.1	0.0
Wagoora	400	405	05:02	367	15:10	30.3	70.6	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	491.20	778.28	495.92	937.45	162.62	585.94
Pong	426.72	384.05	409.48	474.29	412.98	600.05	59.69	343.90
Tehri	829.79	740.04	790.00	453.12	818.65	982.26	50.81	223.00
Koteshwar	612.50	598.50	607.66	3.54	NA	NA	223.60	216.00
Chamera-I	760.00	748.75	NA	NA	NA	NA	90.54	118.68
Rihand	268.22	252.98	262.01	419.10	256.18	123.70	NA	NA
RPS	352.80	343.81	348.68	NA	NA	NA	NA	189.89
Jawahar Sagar	298.70	295.78	297.70	NA	NA	NA	NA	251.93
RSD	527.91	487.91	500.10	NA	504.75	NA	96.70	161.07

* NA: Not Available

IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

XI. Weather Conditions For 17.02.2012 :

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 : 17.02.2012

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER