

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 17.02.2013
Date of Reporting : 18.02.2013

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
28049	3215	31264	49.82	19527	0	19527	50.40	592.4	44.45

* 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	26.90	7.61		34.51	42.11	41.91	-0.20	76.42	1.80
Haryana	32.91	0.36		33.27	42.90	41.87	-1.03	75.14	0.16
Rajasthan	64.22	3.31	4.25	71.78	64.44	64.92	0.48	136.70	0.77
Delhi	21.52			21.52	32.17	33.49	1.33	55.02	0.06
UP	76.77	4.52	19.20	100.49	59.75	58.24	-1.51	158.73	39.94
Uttarakhand		13.21		13.21	16.77	13.99	-2.77	27.20	0.00
HP		4.81		4.81	17.37	17.97	0.60	22.77	0.02
J & K		7.09	0.00	7.09	30.51	30.05	-0.46	37.15	1.70
Chandigarh				0.00	3.28	3.28	0.00	3.28	0.00
Total	222.32	40.91	23.45	286.67	309.30	305.73	-3.58	592.40	44.45

* 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	3811	600	-25	-26	2497	0	-159	254	4.16
Haryana	4081	0	-56	-217	2318	0	-283	-365	-7.64
Rajasthan	5926	0	-6	538	4700	0	-360	889	23.36
Delhi	2705	0	-49	-1034	1274	0	142	-1612	-31.16
UP	7066	2515	-38	-6	5574	0	-168	-61	-2.55
Uttarakhand	1446	0	71	498	908	0	-204	417	10.72
HP	1025	0	-61	89	741	0	27	298	5.31
J&K	1817	100	-147	400	1425	0	-53	374	8.99
Chandigarh	172	0	-14	-5	91	0	-1	-31	-0.32
Total	28049	3215	-325	238	19527	0	-1059	164	10.86

* 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	1450	1580	1123	32.26	1344	31.89	0.37
	Rihand I STPS	1000	484	490	350	10.55	440	10.56	-0.02
	Rihand II STPS	1000	975	1022	744	20.94	873	20.99	-0.04
	Rihand III STPS	500	485	504	305	10.38	433	10.19	0.19
	Dadri I STPS	840	807	746	606	15.52	647	16.10	-0.58
	Dadri II STPS	980	969	987	714	19.49	812	20.73	-1.24
	Unchahar I TPS	420	407	365	329	7.73	322	7.51	0.22
	Unchahar II TPS	420	405	216	161	4.48	187	4.58	-0.10
	Unchahar III TPS	210	202	197	157	3.77	157	3.77	0.00
	ISTPP (Jhajjar)	1500	980	362	340	7.68	320	7.95	-0.27
	Dadri GPS	830	836	198	161	4.41	184	4.97	-0.56
	Anta GPS	419	423	279	170	5.89	245	6.24	-0.35
	Auraiva GPS	663	671	161	162	3.77	157	3.82	-0.06
	Sub Total (A)	10782	9093	7107	5322	146.86	6119	149.30	-2.44
B. NPC	NAPS	440	304	339	346	7.34	306	7.30	0.05
	RAPS- B	440	424	469	473	10.25	427	10.18	-0.07
	RAPS- C	440	430	471	732	9.89	412	10.32	-0.43
	Sub Total (B)	1320	1158	1279	1551	27.48	1145	27.79	-0.31
C. NHPC	Chamera I HPS	540	550	540	0	2.06	86	2.06	-0.01
	Chamera II HPS	300	204	202	0	1.19	50	1.16	0.03
	Chamera III HPS	231	231	150	0	0.77	32	0.78	-0.01
	Bairasuil HPS	180	182	20	60	0.90	38	1.02	-0.12
	Salal-HPS	690	172	328	130	3.70	154	4.01	-0.31
	Tanakpur-HPS	94	58	64	62	1.50	63	1.35	0.16
	Uri-HPS	480	293	328	106	6.09	254	6.61	-0.52
	Dhauliganga-HPS	280	283	130	0	0.64	27	0.91	-0.27
	Dulhasti-HPS	390	0	0	0	0.00	0	0.00	0.00
	Sewa-II HPS	120	80	85	35	1.55	64	1.50	0.05
	Sub Total (C)	3305	2052	1847	393	18.40	766	19.40	-1.01
	D.NJPC	Natpaha Jhakri	1500	1605	1359	0	6.71	279	6.50
Sub Total (D)		1500	1605	1359	0	6.71	279	6.50	0.21
E. THDC	Tehri HPS	1000	890	899	0	5.84	244	5.80	0.04
	Koteshwar HPS	400	100	102	71	2.22	92	2.30	-0.09
	Sub Total (E)	1400	990	1001	71	8.06	336	8.10	-0.04
F. BBMB	Bhakra HPS	1480	465	970	331	10.92	455	11.15	-0.23
	Dehar HPS	990	169	495	0	4.22	176	4.06	0.16
	Pong HPS	396	216	312	0	5.39	225	5.01	0.38
	Sub Total (F)	2866	850	1777	331	20.53	855	20.22	0.31
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	0	0	0.33	14	0.26	0.07
	KWHEP HPS(IPP)	1000	0	150	0	3.13	130	3.17	-0.04
	Malana Stg-II HPS	100	0	31	0	0.12	5	0.11	0.01
	Shree Cement TPS	300	0	249	143	5.79	241	6.42	-0.63
	Budhil HPS(IPP)	70	0	0	0	0.00	0	0.00	0.00
	Sub Total (G)	1662	0	430	143	9.37	390	9.96	-0.59
H. Total Regional Entities (A-G)	22836	15748	14800	7811	237.41	9892	241.27	-3.86	

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	510	510	11.91	496	
	Guru Nanak Dev TPS(Bhatinda)	440	105	105	2.29	95	
	Guru Hargobind Singh TPS(L.mbt)	920	738	564	12.70	529	
	Thermal (Total)	2620	1353	1179	26.90	1121	
	Total Hydro	1148	363	208	7.61	317	
	Total Punjab	3768	1716	1387	34.51	1438	
Haryana	Panipat TPS	1367	194	180	4.32	180	
	DCRTPP (Yamuna nagar)	600	279	240	6.05	252	
	Faridabad GPS (NTPC)	432	0	0	0.00	0	
	RGTPP (khedar) (IPP)	1200	568	326	9.37	390	
	Magnum Diesel (IPP)	25	0	0	0.00	0	
	Jhajjar(CLP)	1320	594	352	13.18	549	
	Thermal (Total)	4944	1635	1098	32.91	1371	
	Total Hydro	62	14	15	0.36	15	
	Total Haryana	5006	1649	1113	33.27	1386	
	Rajasthan	kota TPS	1240	1150	969	26.61	1109
suratgarh TPS		1500	583	370	12.41	517	
Chabra TPS		500	198	202	5.02	209	
Dholpur GPS		330	145	105	2.21	92	
Ramgarh GPS		111	31	12	0.58	24	
RAPS A (NPC)		300	197	197	4.90	204	
Barsingsar (NLC)		250	203	101	1.05	44	
Giral LTPS		250	60	0	3.40	142	
Rajwest LTPS (IPP)		675	357	281	8.04	335	
VSLP LTPS (IPP)		135	0	0	0.00	0	
Thermal (Total)		5291	2924	2237	64.22	2676	
Total Hydro		550	109	99	3.31	138	
Wind power		2191	25	243	3.61	151	
Biomass		91	20	20	0.47	20	
Solar		201	4	0	0.16	7	
Renewable/Others (Total)		2483	45	263	4.25	177	
Total Rajasthan		8324	3078	2599	71.78	2991	
UP		Anpara TPS	1630	879	760	22.50	938
		Obra TPS	1382	459	381	10.40	433
	Paricha TPS	890	350	292	7.80	325	
	Panki TPS	210	54	0	1.10	46	
	Harduaganj TPS	665	258	214	5.80	242	
	Tanda TPS (NTPC)	440	403	316	9.39	391	
	Roza TPS (IPP)	1200	198	207	5.25	219	
	Anpara-C (IPP)	1200	275	263	6.99	291	
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	333	287	7.53	314	
	Thermal (Total)	8067	3209	2720	76.77	3199	
	Vishnuparyag HPS (IPP)	400	71	76	1.72	72	
	Other Hydro	527	232	82	2.81	117	
	Cogeneration	981	800	800	19.20	800	
	Total UP	9975	4312	3678	100.49	4116	
	Uttarakhand	Total Hydro	1303	597	508	13.21	550
		Total Uttarakhand	1303	597	508	13.21	550
Delhi	Rajghat TPS	135	102	98	2.38	99	
	Delhi Gas Turbine	282	171	141	3.98	166	
	Pragati Gas Turbine	330	310	264	7.26	302	
	Rithala GPS	108	0	0	0.00	0	
	Bawana GPS	677	0	0	0.00	0	
	Badarpur TPS (NTPC)	705	410	305	7.90	329	
	Thermal (Total)	2237	993	808	21.52	897	
	Total Delhi	2237	993	808	21.52	897	
	HP	Baspa HPS (IPP)	330	29	0	0.72	30
Malana HPS (IPP)		86	32	0	0.16	7	
Other Hydro		589	173	24	3.93	164	
Total HP		1005	234	24	4.81	200	
J & K	Baglihar HPS (IPP)	450	296	148	3.69	154	
	Other Hydro	323	95	130	3.40	142	
	Gas/Diesel/Others	183	0	0	0.00	0	
	Total J & K	956	391	278	7.09	296	
Total State Control Area Generation		32574	12970	10395	286.67	11873	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			3688	2642	90.99	3791	
Total Regional Availability(Gross)		55410	31458	20848	615.07	25556	

IV. Total Hydro Generation:

Regional Entities Hydro	10364	6165	795	57.27	2386
State Control Area Hydro	5368	1940	1214	40.91	1633
Total Regional Hydro	15731	8105	2009	98.18	4019

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	250	-150	350	150	4.09	0.99	3.11
Gwalior-Agra (D/C)	386	182	767	0	12.09	0.00	12.09
Zerda-Kankroli	-48	-226	50	252	0.00	2.63	-2.63
Zerda-Bhinmal	35	-124	189	196	0.00	0.24	-0.24
Malanpur-Auraiya	-58	-92	0	92	0.00	0.98	-0.98
Badod-Kota/Morak	-57	-108	35	133	0.00	1.28	-1.28
Mundra-Mohindergarh(HVDC)	1266	1266	1268	0	30.64	0.00	30.64
Sub Total WR	1774	748			46.82	6.12	40.70
Pusauli Bypass	400	400	400	0	9.67	0.00	9.67
MZP- GKP (D/C)	222	600	652	0	10.77	0.00	10.77
Patna-Balia(D/C)	902	407	975	0	18.65	0.00	18.65
B'Sharif-Balia (D/C)	167	290	450	0	5.61	0.00	5.61
Barh - Balia(D/C)	0	0	0	0	0.00	0.00	0.00
Pusauli-Balia	115	0	115	0	0.53	0.00	0.53
Gaya-Fatehpur (765 Kv)	34	189	325	0	4.45	0.00	4.45
Pusauli-Sahupuri	109	48	111	0	1.52	0.00	1.52
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	1914	1894			51.21	0.92	50.29
Total IR Exch	3688	2642			98.03	7.04	90.99

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
36.84	0.10	36.94	-2.14	3.69	0.23	-1.11	4.01	-4.01
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
39.03	46.83	85.86	50.29	40.70	90.99	11.25	-6.12	5.13

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	0.03	4.39	82.01	77.65	76.68	17.96

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					
50.66	2.23	49.49	19.13	50.13	0.54	0.16	50.58	49.74

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	419	2:17	0	5:11	19.5	19.5	0.0	0.0
Gorakhpur	400	435	1:53	415	8:39	0.0	0.0	86.9	18.6
Bareilly	400	433	2:20	408	7:34	0.0	0.0	38.5	2.7
Kanpur	400	427	0:59	405	7:31	0.0	0.0	16.0	0.0
Dadri	400	429	1:30	408	19:11	0.0	0.0	33.2	0.0
Ballabgarh	400	434	0:59	411	19:12	0.0	0.0	65.7	10.9
Bawana	400	434	2:20	410	19:07	0.0	0.0	58.0	7.5
Bassi	400	434	1:01	409	7:03	0.0	0.0	64.1	11.3
Hissar	400	424	2:19	399	19:07	0.0	0.0	7.6	0.0
Moga	400	424	1:33	401	18:41	0.0	0.0	12.0	0.0
Abdullapur	400	430	0:41	297	11:19	0.1	0.1	53.8	0.0
Nalagarh	400	429	0:41	409	19:07	0.0	0.0	53.0	0.0
Kishenpur	400	420	13:00	394	19:05	0.0	0.0	0.0	0.0
Wagoora	400	413	14:14	376	19:30	3.5	33.6	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	486.16	619.14	491.00	778.28	193.38	299.39
Pong	426.72	384.05	404.79	336.10	409.48	474.25	96.90	365.49
Tehri	829.79	740.04	791.35	476.00	818.65	982.26	55.44	150.00
Koteswar	612.50	598.50	610.10	4.69	NA	NA	150.00	147.00
Chamera-I	760.00	748.75	NA	NA	NA	NA	77.15	55.16
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 17.02.2013 :

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 : 17.02.2013

पारी प्रभाती अशियंता / SHIFT CHARGE ENGINEER