

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 18.02.2013
Date of Reporting : 19.02.2013

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
29629	3187	32816	50.09	22062	650	22712	50.22	643.6	36.69

* 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	24.11	8.38		32.50	44.68	45.65	0.97	78.15	1.96
Haryana	34.21	0.31		34.52	47.04	44.41	-2.63	78.92	0.32
Rajasthan	75.37	2.60	3.95	81.92	64.98	62.08	-2.90	144.00	0.00
Delhi	23.80			23.80	35.98	34.46	-1.52	58.25	0.02
UP	93.10	4.77	19.20	117.07	70.77	71.13	0.37	188.21	32.68
Uttarakhand		12.94		12.94	18.81	17.18	-1.63	30.12	0.00
HP		4.78		4.78	18.75	17.52	-1.23	23.30	0.00
J & K		7.09	0.00	7.09	34.09	32.00	-2.09	39.09	1.70
Chandigarh				0.00	3.61	3.58	-0.03	3.58	0.00
Total	250.59	40.88	23.15	314.62	338.70	329.00	-9.70	643.62	36.69

* 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	4012	600	17	56	2477	0	86	253	5.68
Haryana	4317	0	-113	-183	2404	0	-377	-260	-7.23
Rajasthan	5751	0	-364	865	5016	0	-290	864	23.19
Delhi	2953	6	-184	-948	1421	0	126	-1470	-28.19
UP	8002	2481	85	-5	7421	650	350	-61	-1.66
Uttarakhand	1526	0	-23	523	982	0	-136	383	10.51
HP	1076	0	-86	166	676	0	-47	375	6.90
J&K	1801	100	-193	401	1576	0	-114	477	10.14
Chandigarh	190	0	-24	0	89	0	-8	-30	-0.26
Total	29629	3187	-884	875	22062	650	-410	531	19.06

* 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	1709	2079	1142	39.11	1630	38.87	0.24
	Rihand I STPS	1000	913	970	725	20.38	849	20.40	-0.02
	Rihand II STPS	1000	975	1035	718	21.69	904	21.76	-0.08
	Rihand III STPS	500	485	498	329	10.58	441	10.57	0.01
	Dadri I STPS	840	807	759	615	15.54	648	15.84	-0.30
	Dadri II STPS	980	969	954	697	19.37	807	20.07	-0.70
	Unchahar I TPS	420	407	350	317	8.20	342	8.11	0.09
	Unchahar II TPS	420	405	395	156	6.43	268	6.70	-0.27
	Unchahar III TPS	210	202	210	159	4.03	168	4.04	-0.01
	ISTPP (Jhajjar)	1500	980	336	339	7.97	332	8.32	-0.35
	Dadri GPS	830	835	356	203	6.90	287	7.81	-0.91
	Anta GPS	419	424	233	240	5.96	248	6.12	-0.16
	Auraiva GPS	663	668	160	164	3.75	156	4.67	-0.93
	Sub Total (A)	10782	9778	8335	5804	169.89	7079	173.27	-3.38
	B. NPC	NAPS	440	304	339	346	7.32	305	7.30
RAPS- B		440	426	468	469	10.23	426	10.22	0.00
RAPS- C		440	430	471	473	10.22	426	10.32	-0.10
Sub Total (B)		1320	1160	1278	1288	27.77	1157	27.84	-0.07
C. NHPC	Chamera I HPS	540	550	540	0	2.86	119	2.66	0.21
	Chamera II HPS	300	204	85	0	1.11	46	1.43	-0.32
	Chamera III HPS	231	231	150	0	0.77	32	0.73	0.04
	Bairasuil HPS	180	182	120	20	0.83	35	0.76	0.07
	Salal-HPS	690	141	336	133	3.67	153	3.39	0.28
	Tanakpur-HPS	94	63	61	64	1.42	59	1.31	0.12
	Uri-HPS	480	255	328	106	6.09	254	5.58	0.51
	Dhauliganga-HPS	280	283	139	0	0.82	34	0.74	0.08
	Dulhasti-HPS	390	0	0	0	0.00	0	0.00	0.00
	Sewa-II HPS	120	87	85	0	1.11	46	1.12	-0.01
	Sub Total (C)	3305	1996	1844	323	18.68	778	17.71	0.97
	D.NJPC	Nathpa Jhakri	1500	1605	1362	0	6.62	276	6.53
Sub Total (D)		1500	1605	1362	0	6.62	276	6.53	0.09
E. THDC	Tehri HPS	1000	890	899	0	5.84	243	5.80	0.04
	Koteshwar HPS	400	100	101	101	2.23	93	2.30	-0.07
	Sub Total (E)	1400	990	1000	101	8.06	336	8.10	-0.04
F. BBMB	Bhakra HPS	1480	437	969	342	10.54	439	10.48	0.06
	Dehar HPS	990	156	495	0	3.94	164	3.74	0.20
	Pong HPS	396	209	312	0	4.99	208	5.01	-0.02
	Sub Total (F)	2866	801	1776	342	19.47	811	19.22	0.25
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	0	0	0.34	14	0.33	0.01
	KWHEP HPS(IPP)	1000	0	150	0	3.38	141	3.45	-0.07
	Malana Stg-II HPS	100	0	31	0	0.12	5	0.11	0.01
	Shree Cement TPS	300	0	276	255	6.45	269	6.43	0.02
	Budhil HPS(IPP)	70	0	0	0	0.00	0	0.00	0.00
	Sub Total (G)	1662	0	457	255	10.29	429	10.32	-0.03
H. Total Regional Entities (A-G)	22836	16330	16052	8113	260.77	10866	262.99	-2.21	

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	630	510	12.43	518	
	Guru Nanak Dev TPS(Bhatinda)	440	105	105	2.37	99	
	Guru Hargobind Singh TPS(L.mbt)	920	526	362	9.31	388	
	Thermal (Total)	2620	1261	977	24.11	1005	
	Total Hydro	1148	363	315	8.38	349	
	Total Punjab	3768	1624	1292	32.50	1354	
Haryana	Panipat TPS	1367	370	174	6.08	253	
	DCRTPP (Yamuna nagar)	600	279	241	5.98	249	
	Faridabad GPS (NTPC)	432	0	0	0.00	0	
	RGTPP (khedar) (IPP)	1200	541	339	8.99	375	
	Magnum Diesel (IPP)	25	0	0	0.00	0	
	Jhajjar(CLP)	1320	582	355	13.15	548	
	Thermal (Total)	4944	1772	1109	34.21	1425	
	Total Hydro	62	14	10	0.31	13	
	Total Haryana	5006	1786	1119	34.52	1438	
	Rajasthan	kota TPS	1240	1050	1052	26.05	1085
suratgarh TPS		1500	960	561	19.56	815	
Chabra TPS		500	209	214	5.26	219	
Dholpur GPS		330	140	145	3.12	130	
Ramgarh GPS		111	31	33	0.80	34	
RAPS A (NPC)		300	197	197	4.88	203	
Barsingsar (NLC)		250	201	179	4.59	191	
Giral LTPS		250	71	60	1.45	60	
Rajwest LTPS (IPP)		675	419	389	9.66	403	
VSLP LTPS (IPP)		135	0		0.00	0	
Thermal (Total)		5291	3278	2830	75.37	3141	
Total Hydro		550	87	56	2.60	108	
Wind power		2191	19	273	3.29	137	
Biomass		91	19	19	0.46	19	
Solar		201	5	0	0.20	8	
Renewable/Others (Total)		2483	38	292	3.95	165	
Total Rajasthan		8324	3403	3178	81.92	3413	
UP		Anpara TPS	1630	917	1041	24.20	1008
		Obra TPS	1382	361	437	9.50	396
		Paricha TPS	890	548	352	12.10	504
	Panki TPS	210	81	63	1.80	75	
	Harduaganj TPS	665	191	261	5.80	242	
	Tanda TPS (NTPC)	440	342	404	9.51	396	
	Roza TPS (IPP)	1200	594	216	13.21	551	
	Anpara-C (IPP)	1200	293	417	10.11	421	
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	266	298	6.88	286	
	Thermal (Total)	8067	3593	3489	93.10	3879	
	Vishnuparyag HPS (IPP)	400	67	70	1.62	68	
	Other Hydro	527	187	171	3.15	131	
	Cogeneration	981	800	800	19.20	800	
	Total UP	9975	4647	4530	117.07	4811	
	Uttarakhand	Total Hydro	1303	564	533	12.94	539
Total Uttarakhand		1303	564	533	12.94	539	
Delhi	Rajghat TPS	135	106	105	2.42	101	
	Delhi Gas Turbine	282	87	167	3.01	126	
	Pragati Gas Turbine	330	308	267	7.25	302	
	Rithala GPS	108	0	0	0.00	0	
	Bawana GPS	677	221	23	3.58	149	
	Badarpur TPS (NTPC)	705	340	310	7.54	314	
	Thermal (Total)	2237	1062	872	23.80	991	
	Total Delhi	2237	1062	872	23.80	991	
	HP	Baspa HPS (IPP)	330	0	0	0.78	33
Malana HPS (IPP)		86	32	0	0.21	9	
Other Hydro		589	167	127	3.79	158	
Total HP		1005	199	127	4.78	199	
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	13676	11929	314.62	13042	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			3095	2849	88.43	3685	
Total Regional Availability(Gross)		55410	32823	22891	663.83	27592	

IV. Total Hydro Generation:

Regional Entities Hydro	10364	6163	766	56.67	2361
State Control Area Hydro	5368	1805	1490	40.88	1636
Total Regional Hydro	15731	7968	2256	97.55	3997

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	-350	-100	400	350	2.33	2.87	-0.54
Gwalior-Agra (D/C)	596	436	810	0	14.33	0.00	14.33
Zerda-Kankroli	17	-197	91	230	0.00	1.36	-1.36
Zerda-Bhinmal	90	-128	201	183	0.85	0.00	0.85
Malanpur-Auraiya	-10	-32	0	60	0.00	0.31	-0.31
Badod-Kota/Morak	-27	-115	70	123	0.00	0.72	-0.72
Mundra-Mohindergarh(HVDC)	1267	1264	1268	0	30.64	0.00	30.64
Sub Total WR	1583	1128			48.14	5.26	42.89
Pusauli Bypass	400	400	400	0	9.67	0.00	9.67
MZP- GKP (D/C)	224	400	504	0	8.43	0.00	8.43
Patna-Balia(D/C)	724	699	834	0	19.12	0.00	19.12
B'Sharif-Balia (D/C)	253	185	352	0	6.28	0.00	6.28
Barh - Balia(D/C)	0	0	0	0	0.00	0.00	0.00
Pusauli-Balia	-68	-112	0	115	0.00	1.99	-1.99
Gaya-Fatehpur (765 Kv)	-12	89	228	12	2.42	0.00	2.42
Pusauli-Sahupuri	26	100	129	0	2.54	0.00	2.54
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	1512	1721			48.46	2.91	45.54
Total IR Exch	3095	2849			96.60	8.17	88.43

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
38.45	0.10	38.54	-2.16	3.71	0.15	6.55	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
40.75	52.00	92.75	45.54	42.89	88.43	4.79	-9.11	-4.32

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	0.14	2.81	89.93	87.26	74.27	9.93

<----- 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					
50.59	23.59	49.45	5.43	50.10	0.37	0.13	50.49	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	416	3:06	402	12:07	28.1	28.1	0.0	0.0
Gorakhpur	400	432	17:04	412	6:35	0.0	0.0	53.2	0.3
Bareilly	400	428	4:03	402	7:09	0.0	0.0	14.8	0.0
Kanpur	400	422	4:04	397	6:38	0.0	0.0	1.6	0.0
Dadri	400	428	4:02	405	18:37	0.0	0.0	21.9	0.0
Ballabhgarh	400	433	4:02	407	6:37	0.0	0.0	35.6	6.3
Bawana	400	433	4:03	407	19:20	0.0	0.0	31.7	3.5
Bassi	400	433	3:59	397	13:35	26.8	26.8	32.6	5.2
Hissar	400	422	4:02	398	18:36	0.0	0.0	1.1	0.0
Moga	400	424	4:02	400	7:06	0.0	0.0	7.0	0.0
Abdullapur	400	431	4:02	293	11:19	0.1	0.1	34.8	0.2
Nalagarh	400	429	4:02	406	18:46	0.0	0.0	33.3	0.0
Kishenpur	400	420	4:02	394	7:29	0.0	0.0	0.0	0.0
Wagoora	400	407	4:02	373	19:00	13.0	55.7	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	486.06	619.14	490.87	758.57	191.42	308.03
Pong	426.72	384.05	404.64	336.10	409.35	474.28	85.21	343.26
Tehri	829.79	740.04	791.30	488.05	818.65	982.26	51.50	150.00
Koteswar	612.50	598.50	610.35	4.69	NA	NA	150.00	148.00
Chamera-I	760.00	748.75	NA	NA	NA	NA	53.60	72.03
Rihand	268.22	252.98	259.54	NA	261.95	NA	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	509.81	NA	499.90	NA	66.49	138.27

* NA: Not Available

IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

XI. Weather Conditions For 18.02.2013 :
Shallow 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 : 18.02.2013

पारी प्रभाती अजयन्ता / SHIFT CHARGE ENGINEER