

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 25.02.2013
Date of Reporting : 26.02.2013

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
29120	3016	32136	49.98	22175	650	22825	50.24	643.6	48.14

* 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	25.99	7.36		33.35	45.72	47.44	1.72	80.80	2.71
Haryana	30.87	0.42		31.29	51.56	51.70	0.14	82.99	0.68
Rajasthan	83.27	3.68	7.62	94.58	59.62	58.61	-1.00	153.19	0.02
Delhi	24.97			24.97	34.75	30.52	-4.23	55.48	0.00
UP	88.22	4.63	16.80	109.65	69.69	69.57	-0.11	179.22	43.03
Uttarakhand		11.60		11.60	18.36	18.17	-0.19	29.77	0.00
HP		6.41		6.41	17.59	16.35	-1.24	22.76	0.00
J & K		8.13	0.00	8.13	34.41	27.86	-6.55	35.99	1.70
Chandigarh				0.00	3.49	3.42	-0.07	3.42	0.00
Total	253.32	42.23	24.42	319.98	335.16	323.65	-11.52	643.62	48.14

* 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	3793	660	87	-272	2510	0	-24	249	5.29
Haryana	4519	25	175	-12	2705	0	-216	-243	-7.47
Rajasthan	6057	0	-568	830	5597	0	164	453	18.28
Delhi	2709	1	-351	-1123	1237	0	-150	-1685	-30.96
UP	7927	2230	-93	-6	7044	650	20	-61	-1.67
Uttarakhand	1468	0	2	457	950	0	-111	325	9.49
HP	1016	0	-90	200	664	0	-141	375	6.87
J&K	1440	100	-537	400	1379	0	-262	375	9.47
Chandigarh	190	0	4	-10	90	0	-7	-30	-0.32
Total	29120	3016	-1371	464	22175	650	-727	-242	8.96

* 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	
										UI (OG:(+ve), UG:(-ve))
A. NTPC	Singrauli STPS	2000	1960	2092	1501	45.76	1907	44.27	1.49	
	Rihand I STPS	1000	925	963	710	20.28	845	20.09	0.19	
	Rihand II STPS	1000	975	1001	747	21.28	887	21.27	0.01	
	Rihand III STPS	500	271	408	0	5.66	236	6.34	-0.68	
	Dadri I STPS	840	807	759	615	15.46	644	15.62	-0.16	
	Dadri II STPS	980	969	985	701	19.18	799	19.83	-0.65	
	Unchahar I TPS	420	407	429	310	8.22	342	8.11	0.11	
	Unchahar II TPS	420	405	430	310	8.05	336	7.93	0.12	
	Unchahar III TPS	210	202	214	157	3.98	166	3.96	0.02	
	ISTPP (Jhajjar)	1500	980	380	366	8.83	368	9.24	-0.41	
	Dadri GPS	830	834	358	361	8.37	349	8.51	-0.14	
	Anta GPS	419	422	238	201	5.55	231	5.59	-0.04	
	Auraiva GPS	663	664	157	162	3.64	152	3.86	-0.22	
	Sub Total (A)	10782	9821	8414	6141	174.25	7261	174.62	-0.37	
	B. NPC	NAPS	440	303	341	344	7.30	304	7.27	0.02
		RAPS- B	440	423	464	469	10.22	426	10.15	0.06
RAPS- C		440	430	471	475	10.21	425	10.32	-0.11	
Sub Total (B)		1320	1156	1276	1288	27.72	1155	27.74	-0.02	
C. NHPC	Chamera I HPS	540	550	540	0	2.72	113	2.70	0.02	
	Chamera II HPS	300	204	154	0	1.59	66	1.50	0.09	
	Chamera III HPS	231	231	228	0	0.80	34	0.83	-0.03	
	Bairasuil HPS	180	182	120	60	1.18	49	1.19	-0.01	
	Salal-HPS	690	224	345	240	6.15	256	5.36	0.78	
	Tanakpur-HPS	94	33	36	32	0.79	33	0.81	-0.02	
	Uri-HPS	480	347	340	320	8.40	350	8.14	0.26	
	Dhauliganga-HPS	280	216	210	0	0.91	38	1.04	-0.14	
	Dulhasti-HPS	390	0	0	0	0.00	0	0.00	0.00	
	Sewa-II HPS	120	120	126	125	2.94	123	2.75	0.19	
	Sub Total (C)	3305	2107	2099	777	25.49	1062	24.33	1.16	
	D.NJPC	Natpcha Jhakri	1500	1605	1269	0	6.30	262	6.30	-0.01
Sub Total (D)		1500	1605	1269	0	6.30	262	6.30	-0.01	
E. THDC	Tehri HPS	1000	890	888	0	5.74	239	5.80	-0.06	
	Koteshwar HPS	400	100	101	100	2.37	99	2.40	-0.04	
	Sub Total (E)	1400	990	989	100	8.11	338	8.20	-0.09	
F. BBMB	Bhakra HPS	1480	351	358	326	8.40	350	8.42	-0.02	
	Dehar HPS	990	207	495	0	4.86	203	4.96	-0.10	
	Pong HPS	396	88	190	0	2.56	107	5.01	-2.45	
	Sub Total (F)	2866	646	1043	326	15.82	659	18.39	-2.57	
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	0	0	0.36	15	0.35	0.02	
	KWHEP HPS(IPP)	1000	0	301	0	3.03	126	2.99	0.03	
	Malana Stg-II HPS	100	0	31	0	0.13	5	0.11	0.02	
	Shree Cement TPS	300	0	266	164	4.99	208	4.86	0.13	
	Budhil HPS(IPP)	70	0	0	0	0.00	0	0.00	0.00	
	Sub Total (G)	1662	0	598	164	8.50	354	8.31	0.20	
H. Total Regional Entities (A-G)	22836	16324	15688	8796	266.19	11091	267.90	-1.70		

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	631	510	12.87	536	
	Guru Nanak Dev TPS(Bhatinda)	440	120	105	2.48	103	
	Guru Hargobind Singh TPS(L.mbt)	920	517	380	10.65	444	
	Thermal (Total)	2620	1268	995	25.99	1083	
	Total Hydro	1148	406	234	7.36	307	
	Total Punjab	3768	1674	1229	33.35	1390	
Haryana	Panipat TPS	1367	413	407	10.17	424	
	DCRTPP (Yamuna nagar)	600	278	252	6.54	273	
	Faridabad GPS (NTPC)	432	177	157	4.06	169	
	RGTPP (khedar) (IPP)	1200	0	0	0.00	0	
	Magnum Diesel (IPP)	25	0	0	0.00	0	
	Jhajjar(CLP)	1320	586	361	10.09	421	
	Thermal (Total)	4944	1454	1177	30.87	1286	
	Total Hydro	62	16	18	0.42	17	
	Total Haryana	5006	1470	1195	31.29	1304	
	Rajasthan	kota TPS	1240	1073	1051	26.69	1112
suratgarh TPS		1500	1138	945	27.60	1150	
Chabra TPS		500	385	166	6.34	264	
Dholpur GPS		330	143	128	3.18	133	
Ramgarh GPS		111	0	34	0.09	4	
RAPS A (NPC)		300	197	197	4.87	203	
Barsingsar (NLC)		250	164	160	3.79	158	
Giral LTPS		250	0	82	0.87	36	
Rajwest LTPS (IPP)		675	413	365	9.84	410	
VSLP LTPS (IPP)		135	0	0	0.00	0	
Thermal (Total)		5291	3513	3128	83.27	3470	
Total Hydro		550	185	79	3.68	154	
Wind power		2191	250	493	6.77	282	
Biomass		91	28	28	0.68	28	
Solar		201	4	0	0.17	7	
Renewable/Others (Total)		2483	278	521	7.62	318	
Total Rajasthan		8324	3976	3728	94.58	3941	
UP		Anpara TPS	1630	1177	1148	28.00	1167
		Obra TPS	1382	504	473	11.70	488
		Paricha TPS	890	598	584	13.60	567
	Panki TPS	210	50	54	1.20	50	
	Harduaganj TPS	665	38	43	1.20	50	
	Tanda TPS (NTPC)	440	406	337	9.23	385	
	Roza TPS (IPP)	1200	607	644	16.56	690	
	Anpara-C (IPP)	1200	0	0	0.00	0	
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	370	252	6.73	280	
	Thermal (Total)	8067	3750	3535	88.22	3676	
	Vishnuparyag HPS (IPP)	400	0	64	0.93	39	
	Other Hydro	527	107	142	3.70	154	
	Cogeneration	981	700	700	16.80	700	
	Total UP	9975	4557	4441	109.65	4530	
	Uttarakhand	Total Hydro	1303	521	445	11.60	483
Total Uttarakhand		1303	521	445	11.60	483	
Delhi	Rajghat TPS	135	106	99	2.44	102	
	Delhi Gas Turbine	282	87	84	1.94	81	
	Pragati Gas Turbine	330	268	262	6.59	275	
	Rithala GPS	108	23	0	0.26	11	
	Bawana GPS	677	222	217	5.53	230	
	Badarpur TPS (NTPC)	705	370	330	8.21	342	
	Thermal (Total)	2237	1076	992	24.97	1040	
	Total Delhi	2237	1076	992	24.97	1040	
	HP	Baspa HPS (IPP)	330	0	0	0.72	30
Malana HPS (IPP)		86	45	0	0.24	10	
Other Hydro		589	275	196	5.45	227	
Total HP		1005	320	196	6.41	267	
J & K	Baglihar HPS (IPP)	450	150	150	3.58	149	
	Other Hydro	323	95	130	4.55	189	
	Gas/Diesel/Others	183	0	0	0.00	0	
	Total J & K	956	245	280	8.13	339	
Total State Control Area Generation		32574	13839	12506	319.98	13294	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			2630	1847	72.01	3001	
Total Regional Availability(Gross)		55410	32157	23149	658.18	27386	

IV. Total Hydro Generation:

Regional Entities Hydro	10364	5732	1203	59.23	2468
State Control Area Hydro	5368	1800	1394	42.23	1721
Total Regional Hydro	15731	7532	2597	101.46	4189

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	-400	250	400	1.49	2.65	-1.16
Gwalior-Agra (D/C)	149	193	589	0	7.53	0.00	7.53
Zerda-Kankroli	-85	-195	30	299	0.00	2.68	-2.68
Zerda-Bhinmal	-5	-102	173	235	0.00	0.47	-0.47
Malanpur-Auraiya	-101	-72	0	101	0.00	1.51	-1.51
Badod-Kota/Morak	-117	-157	33	192	0.00	2.10	-2.10
Mundra-Mohindergarh(HVDC)	1264	1267	1267	0	30.56	0.00	30.56
Sub Total WR	1205	534			39.58	9.40	30.18
Pusauli Bypass	400	400	400	0	9.72	0.00	9.72
MZP- GKP (D/C)	270	244	600	0	8.29	0.00	8.29
Patna-Balia(D/C)	519	475	708	0	13.65	0.00	13.65
B'Sharif-Balia (D/C)	182	187	391	0	6.28	0.00	6.28
Barh - Balia(D/C)	0	0	0	0	0.00	0.00	0.00
Pusauli-Balia	-108	-97	0	128	0.00	1.89	-1.89
Gaya-Fatehpur (765 Kv)	78	40	269	0	4.32	0.00	4.32
Pusauli-Sahupuri	122	104	122	0	2.48	0.00	2.48
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-38	-40	0	44	0.00	1.01	-1.01
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sub Total ER	1425	1313			44.74	2.90	41.83
Total IR Exch	2630	1847			84.32	12.30	72.01

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
42.64	0.71	43.35	-1.29	-4.11	-0.01	4.33	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
46.26	41.79	88.05	41.83	30.18	72.01	-4.43	-11.61	-16.04

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	1.40	87.20	85.80	59.80	12.80

<----- 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					
50.54	17.03	49.59	5.43	50.03	0.22	0.14	50.34	49.83

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	413	1:26	403	7:17	0.0	0.0	0.0	0.0
Gorakhpur	400	427	2:11	411	10:32	0.0	0.0	32.5	0.0
Bareilly	400	429	4:03	406	9:19	0.0	0.0	29.2	0.0
Kanpur	400	423	1:33	401	9:16	0.0	0.0	10.8	0.0
Dadri	400	428	4:03	405	9:16	0.0	0.0	28.6	0.0
Ballabgarh	400	433	3:02	409	9:16	0.0	0.0	37.2	9.9
Bawana	400	432	2:12	409	11:40	0.0	0.0	46.5	5.2
Bassi	400	436	4:03	404	6:41	0.0	0.0	47.3	13.4
Hissar	400	422	2:12	399	19:03	0.0	0.0	4.9	0.0
Moga	400	423	2:11	400	19:03	0.0	0.0	13.2	0.0
Abdullapur	400	429	1:33	409	19:04	0.0	0.0	48.2	0.0
Nalagarh	400	429	23:57	403	9:43	0.0	0.0	33.7	0.0
Kishenpur	400	423	13:01	392	19:04	0.0	0.0	0.2	0.0
Wagoora	400	433	12:19	389	12:03	44.8	66.8	0.7	0.1

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	458.59	602.35	489.37	719.44	210.65	256.61
Pong	426.72	384.05	404.00	312.39	408.77	454.47	85.72	196.29
Tehri	829.79	740.04	790.45	460.00	818.65	982.26	40.03	148.00
Koteswar	612.50	598.50	610.50	4.69	NA	NA	151.00	156.00
Chamera-I	760.00	748.75	NA	NA	NA	NA	86.06	59.67
Rihand	268.22	252.98	259.51	NA	261.88	NA	NA	NA
RPS	352.80	343.81	346.91	NA	NA	NA	NA	NA
Jawahar Sagar	298.70	295.78	296.88	NA	NA	NA	NA	NA
RSD	527.91	487.91	509.57	NA	499.60	NA	77.05	155.54

* NA: Not Available

IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

XI. Weather Conditions For 25.02.2013 :
Normal Weather in Northern Region.

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 : 25.02.2013

पारी प्रभाती अश्विनी / SHIFT CHARGE ENGINEER