

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 10.03.2013
Date of Reporting : 11.03.2013

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
29553	1680	31233	50.08	28212	1195	29407	50.22	721.4	44.37

* 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	33.68	10.80		44.48	52.04	50.70	-1.34	95.18	0.29
Haryana	43.94	0.50		44.44	59.19	57.89	-1.30	102.33	0.76
Rajasthan	97.11	5.00	4.38	106.49	70.14	69.10	-1.04	175.59	1.21
Delhi	23.76			23.76	32.11	29.13	-2.99	52.88	0.10
UP	103.36	6.66	19.20	129.22	79.54	78.25	-1.29	207.47	40.31
Uttarakhand		11.74		11.74	18.11	16.36	-1.75	28.10	0.00
HP		8.87		8.87	13.26	12.44	-0.82	21.31	0.00
J & K		11.13	0.00	11.13	27.53	24.28	-3.26	35.41	1.70
Chandigarh				0.00	3.50	3.10	-0.40	3.10	0.00
Total	301.83	54.70	23.58	380.11	355.43	341.25	-14.18	721.36	44.37

* 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	4132	0	-253	-113	3450	0	-17	196	0.78
Haryana	4572	0	-292	39	3928	0	38	-97	-3.88
Rajasthan	6058	0	-425	665	7635	0	375	713	19.42
Delhi	2741	0	92	-897	1499	0	-38	-1677	-28.30
UP	8070	1580	-89	-118	8677	1195	44	-42	-1.83
Uttarakhand	1388	0	-12	399	1062	0	-12	367	8.83
HP	844	0	-149	-287	728	0	-7	83	-0.10
J&K	1579	100	-138	16	1140	0	-127	16	0.39
Chandigarh	168	0	-4	-51	92	0	-27	0	-0.47
Total	29553	1680	-1270	-346	28212	1195	228	-440	-5.14

* 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	1970	2009	2109	47.13	1964	46.82	0.30	
	Rihand I STPS	1000	930	844	1008	21.82	909	21.94	-0.11	
	Rihand II STPS	1000	959	844	1032	22.35	931	22.51	-0.15	
	Rihand III STPS	500	475	485	501	11.31	471	11.36	-0.04	
	Dadri I STPS	840	807	686	715	17.53	731	18.43	-0.90	
	Dadri II STPS	980	969	677	693	15.17	632	14.85	0.32	
	Unchahar I TPS	420	408	438	442	9.82	409	8.99	0.83	
	Unchahar II TPS	420	406	442	439	9.67	403	8.72	0.95	
	Unchahar III TPS	210	202	218	221	4.83	201	4.40	0.42	
	ISTPP (Jhajjar)	1500	995	368	407	8.95	373	9.25	-0.30	
	Dadri GPS	830	829	311	374	8.67	361	8.94	-0.27	
	Anta GPS	419	405	229	213	5.42	226	5.60	-0.18	
	Auraiva GPS	663	646	151	159	3.57	149	3.76	-0.20	
	Sub Total (A)	10782	10001	7702	8313	186.24	7760	185.56	0.68	
	B. NPC	NAPS	440	300	335	345	7.19	300	7.20	-0.01
		RAPS- B	440	419	457	462	10.10	421	10.06	0.04
RAPS- C		440	430	474	478	10.23	426	10.32	-0.09	
Sub Total (B)		1320	1149	1266	1285	27.52	1147	27.58	-0.06	
C. NHPC	Chamera I HPS	540	550	540	0	4.39	183	4.39	0.01	
	Chamera II HPS	300	306	199	0	2.20	92	2.48	-0.28	
	Chamera III HPS	231	231	219	0	1.41	59	1.42	-0.01	
	Bairasuil HPS	180	182	182	0	1.80	75	2.16	-0.36	
	Salal-HPS	690	306	431	180	6.78	282	6.84	-0.06	
	Tanakpur-HPS	94	32	39	26	0.76	32	0.72	0.04	
	Uri-HPS	480	460	480	474	11.41	475	10.51	0.90	
	Dhauliganga-HPS	280	248	260	0	1.06	44	1.09	-0.02	
	Dulhasti-HPS	390	257	271	0	3.22	134	3.40	-0.18	
	Sewa-II HPS	120	120	122	119	2.84	118	2.74	0.11	
	Sub Total (C)	3305	2692	2743	799	35.87	1494	35.73	0.13	
	D.NJPC	Nathpa Jhakri	1500	1350	1328	0	6.91	288	6.90	0.01
Sub Total (D)		1500	1350	1328	0	6.91	288	6.90	0.01	
E. THDC	Tehri HPS	1000	852	632	0	7.93	330	8.00	-0.07	
	Koteshwar HPS	400	400	395	90	3.34	139	3.30	0.04	
	Sub Total (E)	1400	1252	1027	90	11.27	469	11.30	-0.03	
F. BBMB	Bhakra HPS	1480	651	993	416	15.69	654	15.62	0.07	
	Dehar HPS	990	297	495	140	7.32	305	7.12	0.20	
	Pong HPS	396	190	306	63	4.73	197	5.01	-0.28	
	Sub Total (F)	2866	1137	1794	619	27.74	1156	27.74	0.00	
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	0	0	0.43	18	0.50	-0.07	
	KWHEP HPS(IPP)	1000	0	260	0	3.35	140	3.34	0.01	
	Malana Stg-II HPS	100	0	60	0	0.25	10	0.28	-0.03	
	Shree Cement TPS	300	0	263	218	2.96	123	3.02	-0.06	
	Budhil HPS(IPP)	70	0	0	0	0.00	0	0.00	0.00	
	Sub Total (G)	1662	0	583	218	6.99	291	7.14	-0.15	
H. Total Regional Entities (A-G)	22836	17581	16443	11324	302.53	12605	301.95	0.58		

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	690	660	16.44	685	
	Guru Nanak Dev TPS(Bhatinda)	440	105	105	2.43	101	
	Guru Hargobind Singh TPS(L.mbt)	920	532	584	14.81	617	
	Thermal (Total)	2620	1327	1349	33.68	1403	
	Total Hydro	1148	447	426	10.80	450	
	Total Punjab	3768	1774	1775	44.48	1853	
Haryana	Panipat TPS	1367	853	847	20.53	855	
	DCRTPP (Yamuna nagar)	600	277	280	6.60	275	
	Faridabad GPS (NTPC)	432	167	154	4.05	169	
	RGTPP (khedar) (IPP)	1200	0	0	0.00	0	
	Magnum Diesel (IPP)	25	0	0	0.00	0	
	Jhajjar(CLP)	1320	575	538	12.76	532	
	Thermal (Total)	4944	1872	1819	43.94	1831	
	Total Hydro	62	22	9	0.50	21	
		Total Haryana	5006	1894	1828	44.44	1852
Rajasthan	kota TPS	1240	882	967	22.98	957	
	suratgarh TPS	1500	1128	1354	30.56	1273	
	Chabra TPS	500	388	447	10.44	435	
	Dholpur GPS	330	140	140	3.29	137	
	Ramgarh GPS	111	88	96	1.82	76	
	RAPS A (NPC)	300	183	183	4.80	200	
	Barsingsar (NLC)	250	182	187	4.28	178	
	Giral LTPS	250	118	121	2.39	99	
	Rajwest LTPS (IPP)	675	729	729	16.55	689	
	VSLP LTPS (IPP)	135	0	0	0.00	0	
	Thermal (Total)	5291	3838	4224	97.11	4046	
	Total Hydro	550	102	238	5.00	208	
	Wind power	2191	0	205	3.29	137	
	Biomass	91	33	33	0.79	33	
	Solar	201	8	0	0.31	13	
		Renewable/Others (Total)	2483	33	238	4.38	183
		Total Rajasthan	8324	3973	4700	106.49	4437
UP	Anpara TPS	1630	1609	1582	34.10	1421	
	Obra TPS	1382	549	307	11.10	463	
	Paricha TPS	890	614	631	14.20	592	
	Panki TPS	210	85	75	1.80	75	
	Harduaganj TPS	665	240	294	6.20	258	
	Tanda TPS (NTPC)	440	401	407	9.88	412	
	Roza TPS (IPP)	1200	648	807	18.04	752	
	Anpara-C (IPP)	1200	0	0	0.00	0	
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	266	359	8.04	335	
	Thermal (Total)	8067	4412	4462	103.36	4306	
	Vishnuparyag HPS (IPP)	400	74	79	1.79	74	
	Other Hydro	527	184	251	4.88	203	
	Cogeneration	981	800	800	19.20	800	
		Total UP	9975	5470	5592	129.22	5310
Uttarakhand	Total Hydro	1303	499	468	11.74	489	
	Total Uttarakhand	1303	499	468	11.74	489	
Delhi	Rajghat TPS	135	55	53	1.24	52	
	Delhi Gas Turbine	282	109	110	2.66	111	
	Pragati Gas Turbine	330	264	263	6.70	279	
	Rithala GPS	108	0	0	0.00	0	
	Bawana GPS	677	0	0	0.00	0	
	Badarpur TPS (NTPC)	705	590	590	13.16	548	
	Thermal (Total)	2237	1018	1016	23.76	990	
		Total Delhi	2237	1018	1016	23.76	990
HP	Baspa HPS (IPP)	330	0	0	0.96	40	
	Malana HPS (IPP)	86	55	0	0.23	10	
	Other Hydro	589	351	311	7.68	320	
		Total HP	1005	406	311	8.87	369
J & K	Baglihar HPS (IPP)	450	274	272	6.59	274	
	Other Hydro	323	95	130	4.55	189	
	Gas/Diesel/Others	183	0	0	0.00	0	
		Total J & K	956	369	402	11.13	464
Total State Control Area Generation		32574	15403	16092	380.11	15764	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			1267	2497	53.69	2237	
Total Regional Availability(Gross)		55410	33113	29913	736.33	30606	

IV. Total Hydro Generation:

Regional Entities Hydro	10364	7212	1508	85.81	3575
State Control Area Hydro	5368	2029	2105	54.70	2205
Total Regional Hydro	15731	9241	3613	140.51	5780

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	50	50	150	150	1.15	0.29	0.87
Gwalior-Agra (D/C)	-247	200	351	206	0.11	0.00	0.11
Zerda-Kankroli	-157	-1	32	184	0.00	1.73	-1.73
Zerda-Bhinmal	-89	66	126	189	0.06	0.00	0.06
Malanpur-Auraiya	-247	-127	0	247	0.00	3.84	-3.84
Badod-Kota/Morak	-184	-70	0	184	0.00	1.72	-1.72
Mundra-Mohindergarh(HVDC)	1265	968	1268	0	28.61	0.00	28.61
Sub Total WR	391	1086			29.94	7.57	22.36
Pusauli Bypass	400	200	400	0	8.31	0.00	8.31
MZP- GKP (D/C)	26	200	296	0	2.94	0.00	2.94
Patna-Balia(D/C)	404	551	614	0	12.80	0.00	12.80
B'Sharif-Balia (D/C)	146	252	297	0	5.76	0.00	5.76
Barh - Balia(D/C)	0	0	0	0	0.00	0.00	0.00
Pusauli-Balia	-128	-43	0	128	0.00	1.91	-1.91
Gaya-Fatehpur (765 Kv)	-55	159	180	55	1.64	0.00	1.64
Pusauli-Sahupuri	121	132	136	0	2.93	0.00	2.93
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-38	-40	0	44	0.00	1.14	-1.14
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sub Total ER	876	1411			34.37	3.04	31.33
Total IR Exch	1267	2497			64.31	10.62	53.69

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
42.77	0.15	42.93	-4.98	-2.99	0.18	-10.18	-2.88	2.88
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
35.24	34.20	69.44	31.33	22.36	53.69	-3.91	-11.83	-15.75

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	0.00	85.40	85.40	71.10	14.60

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					
50.69	16.07	49.71	22.06	50.07	0.22	0.13	50.56	49.94

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	408	16:04	401	12:50	0.0	0.0	0.0	0.0
Gorakhpur	400	426	17:18	142	7:25	0.2	0.2	7.3	0.0
Bareilly	400	425	16:06	404	10:08	0.0	0.0	1.0	0.0
Kanpur	400	416	16:06	400	11:14	0.0	0.0	0.0	0.0
Dadri	400	419	16:06	404	11:09	0.0	0.0	0.0	0.0
Ballabgarh	400	423	18:01	406	11:10	0.0	0.0	3.9	0.0
Bawana	400	421	16:06	406	11:11	0.0	0.0	0.5	0.0
Bassi	400	424	18:01	394	11:08	0.0	0.0	3.8	0.0
Hissar	400	411	18:01	392	11:10	0.0	0.0	0.0	0.0
Moga	400	414	4:03	395	11:15	0.0	0.0	0.0	0.0
Abdullapur	400	422	16:06	409	11:10	0.0	0.0	4.4	0.0
Nalagarh	400	423	16:06	408	11:12	0.0	0.0	12.0	0.0
Kishenpur	400	417	4:03	396	8:28	0.0	0.0	0.0	0.0
Wagoora	400	407	4:02	380	19:08	0.0	40.8	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	484.82	585.65	485.00	585.65	221.83	394.99
Pong	426.72	384.05	402.89	288.96	406.72	388.64	106.67	306.78
Tehri	829.79	740.04	786.00	398.53	818.65	982.26	78.93	228.00
Koteshwar	612.50	598.50	610.10	4.69	NA	NA	226.00	218.00
Chamera-I	760.00	748.75	NA	NA	NA	NA	122.43	121.55
Rihand	268.22	252.98	258.90	NA	260.91	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	508.69	NA	497.45	NA	110.86	178.96

* NA: Not Available

IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

XI. Weather Conditions For 10.03.2013 :
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 :
1: 400kV Agra - Gwaiior ckt-2 line first time synchronised on 765kV at 22:28hrs of dt 10.03.2012.

XIV. Tripping of lines in pooling stations :

XV. Complete generation loss in a generating station :

Report for : 10.03.2013

पारी प्रभाती अजिंयता / SHIFT CHARGE ENGINEER