

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 26.03.2013
Date of Reporting : 27.03.2013

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
29412	1560	30972	50.40	28534	1244	29778	50.18	724.1	32.25

* 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	32.20	11.33		43.53	51.29	51.90	0.61	95.43	0.00
Haryana	39.61	0.62		40.23	60.60	60.47	-0.13	100.70	0.01
Rajasthan	97.98	1.89	5.26	105.14	61.82	57.38	-4.44	162.52	0.09
Delhi	24.17			24.17	36.03	33.92	-2.11	58.09	0.02
UP	105.94	5.58	19.20	130.72	93.24	90.82	-2.42	221.54	30.23
Uttarakhand		13.39		13.39	15.53	14.97	-0.57	28.36	0.21
HP		10.00		10.00	13.63	11.99	-1.64	21.98	0.00
J & K		11.75	0.00	11.75	22.69	20.38	-2.31	32.13	1.70
Chandigarh				0.00	3.81	3.38	-0.43	3.38	0.00
Total	299.91	54.55	24.46	378.93	358.62	345.20	-13.42	724.13	32.25

* 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 STOA/PX transaction
	Demand Met	Shortage	UI	STOA/PX transaction	Demand Met	Shortage	UI	STOA/PX transaction	
Punjab	4107	0	56	6	3385	0	-83	151	2.51
Haryana	4711	0	201	-385	3624	0	148	-450	-7.00
Rajasthan	5364	0	-621	167	7018	89	-24	537	12.05
Delhi	2653	0	-28	-727	1813	0	-63	-1439	-23.45
UP	8690	1460	62	17	9679	1085	-25	76	1.59
Uttarakhand	1393	0	171	310	1008	70	-31	164	5.62
HP	854	0	31	-392	731	0	-41	100	-0.61
J&K	1462	100	-3	-45	1183	0	-76	-45	-1.07
Chandigarh	179	0	-5	-42	94	0	-11	-10	-0.28
Total	29412	1560	-136	-1091	28534	1244	-206	-915	-10.64

* 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	1970	2054	2106	47.00	1958	46.10	0.91
	Rihand I STPS	1000	715	748	775	16.35	681	16.31	0.03
	Rihand II STPS	1000	975	959	1032	21.82	909	21.87	-0.05
	Rihand III STPS	500	485	465	500	11.26	469	11.40	-0.14
	Dadri I STPS	840	807	667	820	15.89	662	17.21	-1.32
	Dadri II STPS	980	969	384	522	10.35	431	13.03	-2.68
	Unchahar I TPS	420	408	394	433	9.35	390	9.07	0.28
	Unchahar II TPS	420	406	439	443	9.13	380	8.70	0.43
	Unchahar III TPS	210	0	0	0	0.00	0	0.00	0.00
	ISTPP (Jhajjar)	1500	995	618	676	14.74	614	15.28	-0.54
	Dadri GPS	830	799	367	409	8.74	364	9.14	-0.40
	Anta GPS	419	403	239	217	5.43	226	5.52	-0.09
	Auraiva GPS	663	639	154	160	3.61	151	3.85	-0.24
	Sub Total (A)	10782	9571	7488	8093	173.66	7236	177.47	-3.81
	B. NPC	NAPS	440	297	337	345	7.21	300	7.12
RAPS- B		440	420	464	463	10.14	423	10.08	0.06
RAPS- C		440	430	474	477	10.21	426	10.32	-0.11
Sub Total (B)		1320	1147	1275	1285	27.56	1148	27.52	0.03
C. NHPC	Chamera I HPS	540	550	450	0	8.10	338	8.26	-0.16
	Chamera II HPS	300	310	90	0	3.01	126	3.03	-0.01
	Chamera III HPS	231	231	148	0	1.81	75	1.83	-0.02
	Bairasuil HPS	180	182	181	30	2.26	94	2.22	0.03
	Salal-HPS	690	263	283	260	6.85	285	6.15	0.70
	Tanakpur-HPS	94	28	32	27	0.67	28	0.66	0.01
	Uri-HPS	480	480	480	480	11.64	485	11.62	0.02
	Dhauliganga-HPS	280	289	139	0	1.15	48	1.17	-0.02
	Dulhasti-HPS	390	387	406	0	3.51	146	3.35	0.15
	Sewa-II HPS	120	119	121	117	2.81	117	2.83	-0.02
	Sub Total (C)	3305	2838	2330	914	41.81	1742	41.12	0.69
	D.NJPC	Nathpa Jhakri	1500	1605	1275	0	11.22	468	11.00
Sub Total (D)		1500	1605	1275	0	11.22	468	11.00	0.22
E. THDC	Tehri HPS	1000	780	365	0	8.03	335	8.00	0.03
	Koteshwar HPS	400	298	291	0	3.76	157	3.80	-0.04
	Sub Total (E)	1400	1078	656	0	11.79	491	11.80	-0.01
F. BBMB	Bhakra HPS	1480	780	993	571	18.83	785	18.72	0.12
	Dehar HPS	990	421	660	280	8.32	347	10.10	-1.78
	Pong HPS	396	127	300	0	3.25	135	5.01	-1.76
	Sub Total (F)	2866	1327	1953	851	30.40	1267	33.82	-3.42
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	4	0	0.70	29	0.49	0.21
	KWHEP HPS(IPP)	1000	0	366	0	5.83	243	6.00	-0.17
	Malana Stg-II HPS	100	0	50	0	0.29	12	0.25	0.03
	Shree Cement TPS	300	0	261	268	6.32	263	6.37	-0.05
	Budhil HPS(IPP)	70	0	0	0	0.00	0	0.00	0.00
	Sub Total (G)	1662	0	681	268	13.13	547	13.11	0.02
H. Total Regional Entities (A-G)	22836	17565	15658	11411	309.57	12899	315.85	-6.28	

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	670	680	15.45	644
	Guru Nanak Dev TPS(Bhatinda)	440	95	95	2.06	86
	Guru Hargobind Singh TPS(L.mbt)	920	479	645	14.69	612
	Thermal (Total)	2620	1244	1420	32.20	1342
	Total Hydro	1148	478	417	11.33	472
	Total Punjab	3768	1722	1837	43.53	1814
Haryana	Panipat TPS	1367	620	597	14.99	625
	DCRTPP (Yamuna nagar)	600	522	515	11.73	489
	Faridabad GPS (NTPC)	432	165	152	4.05	169
	RGTPP (khedar) (IPP)	1200	0	0	0.00	0
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	1320	376	375	8.85	369
	Thermal (Total)	4944	1683	1639	39.61	1651
	Total Hydro	62	26	21	0.62	26
	Total Haryana	5006	1709	1660	40.23	1676
	Rajasthan	kota TPS	1240	1076	1173	27.39
suratgarh TPS		1500	1023	1346	29.01	1209
Chabra TPS		500	399	450	10.30	429
Dholpur GPS		330	151	143	3.34	139
Ramgarh GPS		111	74	74	1.84	77
RAPS A (NPC)		300	172	172	4.79	200
Barsingsar (NLC)		250	185	187	4.32	180
Giral LTPS		250	58	58	1.32	55
Rajwest LTPS (IPP)		1080	610	729	15.67	653
VSLP LTPS (IPP)		135	0		0.00	0
Thermal (Total)		5696	3748	4332	97.98	4083
Total Hydro		550	31	64	1.89	79
Wind power		2191	34	166	3.47	145
Biomass		91	32	32	0.76	32
Solar		201	25	0	1.03	43
Renewable/Others (Total)		2483	66	198	5.26	219
Total Rajasthan		8729	3845	4594	105.14	4381
UP	Anpara TPS	1630	1098	1102	23.50	979
	Obra TPS	1382	535	508	11.70	488
	Paricha TPS	890	872	818	17.70	738
	Panki TPS	210	80	85	1.70	71
	Harduaganj TPS	665	240	296	6.20	258
	Tanda TPS (NTPC)	440	395	402	9.82	409
	Roza TPS (IPP)	1200	671	805	16.99	708
	Anpara-C (IPP)	1200	417	429	10.12	422
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	351	403	8.22	343
	Thermal (Total)	8067	4659	4848	105.94	4414
	Vishnuparyag HPS (IPP)	400	79	76	1.76	74
	Other Hydro	527	112	172	3.82	159
	Cogeneration	981	800	800	19.20	800
	Total UP	9975	5650	5896	130.72	5373
Uttarakhand	Total Hydro	1303	579	550	13.39	558
	Total Uttarakhand	1303	579	550	13.39	558
Delhi	Rajghat TPS	135	51	49	1.09	45
	Delhi Gas Turbine	282	156	155	3.91	163
	Pragati Gas Turbine	330	261	259	6.58	274
	Rithala GPS	108	0	0	0.00	0
	Bawana GPS	677	0	0	0.00	0
	Badarpur TPS (NTPC)	705	575	575	12.59	525
	Thermal (Total)	2237	1043	1038	24.17	1007
	Total Delhi	2237	1043	1038	24.17	1007
	HP	Baspa HPS (IPP)	330	31	0	1.15
Malana HPS (IPP)		86	50	0	0.27	11
Other Hydro		589	368	382	8.57	357
Total HP		1005	449	382	10.00	417
J & K	Baglihar HPS (IPP)	450	296	290	7.20	300
	Other Hydro	323	95	130	4.55	189
	Gas/Diesel/Others	183	0	0	0.00	0
	Total J & K	956	391	420	11.75	489
Total State Control Area Generation		32979	15388	16377	378.93	15715
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			605	1593	45.90	1912
Total Regional Availability(Gross)		55815	31651	29381	734.40	30526

IV. Total Hydro Generation:

Regional Entities Hydro	10364	6634	1765	102.04	4252
State Control Area Hydro	5368	2066	2026	54.55	2200
Total Regional Hydro	15731	8700	3791	156.59	6451

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	200	-300	400	300	0.78	1.93	-1.15
Gwalior-Agra (D/C)	28	468	858	0	12.25	0.00	12.25
Zerda-Kankroli	-266	-206	0	266	0.00	4.50	-4.50
Zerda-Bhinmal	-211	-160	25	244	0.00	2.97	-2.97
Malanpur-Auraiya	-158	-104	0	158	0.00	2.10	-2.10
Badod-Kota/Morak	-190	-189	0	210	0.00	3.86	-3.86
Mundra-Mohindergarh(HVDC)	968	1265	1267	0	28.77	0.00	28.77
Sub Total WR	371	774			41.80	15.37	26.43
Pusauli Bypass	400	400	400	0	9.37	0.00	9.37
MZP- GKP (D/C)	-202	36	120	202	0.20	0.00	0.20
Patna-Balia(D/C)	176	345	405	0	7.96	0.00	7.96
B'Sharif-Balia (D/C)	-51	94	151	51	2.32	0.00	2.32
Pusauli-Balia	-164	-109	0	164	0.00	2.49	-2.49
Gaya-Fatehpur (765 Kv)	0	-34	54	36	0.00	0.04	-0.04
Pusauli-Sahupuri	111	127	157	0	2.99	0.00	2.99
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-36	-40	0	44	0.00	0.83	-0.83
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sub Total ER	234	819			22.83	3.36	19.47
Total IR Exch	605	1593			64.63	18.73	45.90

V(B). Inter Regional Schedule & Actual Exchanges [Import (+ve)/Export (-ve)] [Corridor wise]

ER	ISGS/LT Schedule (MU)		Bilateral Schedule (MU)		Power Exchange Shdi (MU)		Wheeling (MU)	
	Bhutan	Total	Through ER	Through WR	Through ER	Through WR	Through ER	Through WR
33.34	0.09	33.42	-14.05	-6.66	2.90	-6.14	-1.36	1.36

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
20.91	37.91	58.82	19.47	26.43	45.90	-1.44	-11.48	-12.92

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	0.30	91.70	91.40	48.80	8.30

<----- Frequency (Hz) ----->				Average Frequency	Frequency Variation Index	Std. Dev.	Frequency in 15 Min Block	
Maximum		Minimum					MAX (Hz)	MIN (Hz)
Freq	Time	Freq	Time	Hz				
50.63	17.06	49.63	22.34	50.01	0.19	0.14	50.63	49.92

VII. Voltage profile 400 kV

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	411	17:03	403	10:15	0.0	0.0	0.0	0.0
Gorakhpur	400	428	5:15	403	20:25	0.0	0.0	30.4	0.0
Bareilly	400	429	17:04	404	20:19	0.0	0.0	17.8	0.0
Kanpur	400	423	17:04	403	10:20	0.0	0.0	2.5	0.0
Dadri	400	425	3:08	403	10:44	0.0	0.0	14.0	0.0
Ballabgarh	400	428	17:03	408	10:20	0.0	0.0	46.1	0.0
Bawana	400	428	3:02	406	10:22	0.0	0.0	21.7	0.0
Bassi	400	432	17:30	405	9:42	0.0	0.0	25.3	0.9
Hissar	400	418	3:02	394	10:47	0.0	0.0	0.0	0.0
Moga	400	423	3:02	399	10:22	0.0	0.0	7.8	0.0
Abdullapur	400	429	3:02	404	10:22	0.0	0.0	20.3	0.0
Nalagarh	400	427	3:02	404	10:58	0.0	0.0	22.2	0.0
Kishenpur	400	420	3:04	398	20:06	0.0	0.0	0.0	0.0
Wagoora	400	412	17:38	383	7:44	0.0	15.3	0.0	0.0

VIII. Voltage profile 765 kV

Station	Voltage Level (kV)	Maximum		Minimum		Voltage (in % of Time)			
		Voltage(KV)	Time	Voltage (KV)	Time	<728 kV	<742 kV	>800 kV	>820 kV
Fatehpur	765	776	4:04	738	10:21	0.0	4.0	0.0	0.0
Balia	765	762	5:03	724	20:17	0.6	26.3	0.0	0.0
Moga	765	797	3:04	753	10:21	0.0	0.0	0.0	0.0
Lucknow	765	765	13:04	753	12:25	0.0	0.0	0.0	0.0

IX. 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 (m ³ /s)	Usage (m ³ /s)
Bhakra	513.59	445.62	481.15	488.47	479.29	441.00	423.05	625.80
Pong	426.72	384.05	400.18	223.85	404.25	320.26	78.55	264.65
Tehri	829.79	740.04	778.16	300.00	818.65	982.26	68.81	222.00
Koteshwar	612.50	598.50	NA	NA	NA	NA	NA	NA
Chamera-I	760.00	748.75	NA	NA	NA	NA	NA	NA
Rihand	268.22	252.98	258.07	NA	260.18	NA	NA	NA
RPS	352.80	343.81	345.69	NA	NA	NA	NA	119.64
Jawahar Sagar	298.70	295.78	296.27	NA	NA	NA	NA	258.05
RSD	527.91	487.91	507.67	NA	496.20	NA	103.30	102.05

* NA: Not Available

X. System Constraints:

XI. Grid Disturbance / Any Other Significant Event:

XII. Weather Conditions For 26.03.2013 :
Normal Weather Conditions in NR

XIII. Synchronisation of new generating units :

XIV. Synchronisation of new 220 / 400 / 765 KV lines and energising of bus / substation :
1: 400kV Chamba- Jalandher ckt. 1&2 first time charged at 00:57 hrs and 01:45 hrs of dt 26.03.2012 respectively.

XV. Tripping of lines in pooling stations :

XVI. Complete generation loss in a generating station :

Report for : 26.03.2013

पारी प्रभाती अशियंता / SHIFT CHARGE ENGINEER