

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 26.04.2013
Date of Reporting : 27.04.2013

I. Regional Availability/Demand:

Demand Met	Evening Peak (20:00 Hrs) MW			Off Peak (03:00 Hrs) MW			Day Energy (Net MU)		
	Shortage	Requirement	Freq* (Hz)	Demand Met	Shortage	Requirement	Freq* (Hz)	Demand Met	Shortage
34065	2555	36620	50.02	30742	1788	32530	50.14	747.6	54.43

* 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	42.76	7.19		49.95	49.13	48.66	-0.48	98.61	0.21
Haryana	53.85	0.60		54.45	50.52	47.32	-3.20	101.77	0.00
Rajasthan	88.42	0.00	7.94	96.36	53.32	50.13	-3.19	146.49	0.47
Delhi	27.27			27.27	58.85	56.33	-2.52	83.61	0.09
UP	118.23	6.78	12.00	137.01	89.84	87.89	-1.95	224.90	51.29
Uttarakhand		13.24		13.24	19.18	19.57	0.39	32.81	0.61
HP		13.06		13.06	13.29	11.25	-2.05	24.31	0.06
J & K		10.75	0.00	10.75	22.64	20.11	-2.53	30.86	1.70
Chandigarh				0.00	4.61	4.30	-0.31	4.30	0.00
Total	330.54	51.62	19.94	402.10	361.39	345.54	-15.84	747.64	54.43

* 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 (20:00 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	5081	0	-43	196	4634	0	-106	295	6.13
Haryana	5455	0	-164	46	4200	0	-224	-42	-7.32
Rajasthan	6416	0	-132	478	5682	0	-102	147	7.08
Delhi	3814	0	-148	-401	2952	0	-59	-848	-14.47
UP	8957	2370	4	-24	9827	1788	-67	778	5.30
Uttarakhand	1565	60	37	468	1263	0	-19	408	9.96
HP	1029	25	-266	-487	845	0	50	-22	-4.89
J&K	1537	100	-127	-44	1194	0	-6	-10	-0.84
Chandigarh	211	0	-10	0	145	0	-2	15	0.59
Total	34065	2555	-849	231	30742	1788	-535	722	1.55

* 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	1245	1363	1363	29.64	1235	29.27	0.37
	Rihand I STPS	1000	921	985	1009	21.74	906	21.65	0.10
	Rihand II STPS	1000	970	1041	1036	22.70	946	22.35	0.34
	Rihand III STPS	500	436	470	503	10.50	437	10.42	0.08
	Dadri I STPS	840	807	835	719	17.75	740	18.95	-1.20
	Dadri II STPS	980	969	1022	892	20.82	867	22.81	-1.99
	Unchahar I TPS	420	395	429	369	8.93	372	8.91	0.02
	Unchahar II TPS	420	398	441	375	8.56	357	8.40	0.16
	Unchahar III TPS	210	0	0	0	0.00	0	0.00	0.00
	ISTPP (Jhajjar)	1500	1410	542	918	2.07	86	17.86	-15.79
	Dadri GPS	830	795	380	384	8.78	366	9.05	-0.27
	Anta GPS	419	392	207	216	5.48	228	5.63	-0.16
	Auraiva GPS	663	624	296	311	7.10	296	6.93	0.17
	Sub Total (A)	10782	9362	8011	8095	164.05	6836	182.23	-18.18
B. NPC	NAPS	440	298	327	338	7.07	295	7.15	-0.08
	RAPS- B	440	276	225	225	4.73	197	6.62	-1.89
	RAPS- C	440	435	466	472	10.06	419	10.44	-0.38
	Sub Total (B)	1320	1009	1018	1035	21.86	911	24.22	-2.35
C. NHPC	Chamera I HPS	540	360	360	0	6.31	263	6.25	0.06
	Chamera II HPS	300	310	311	25	4.89	204	4.27	0.62
	Chamera III HPS	231	231	225	137	3.48	145	3.26	0.23
	Bairasuil HPS	180	182	180	30	2.44	102	2.20	0.24
	Salal-HPS	690	339	570	298	8.29	345	7.70	0.58
	Tanakpur-HPS	94	38	55	38	0.94	39	0.90	0.04
	Uri-HPS	480	476	480	479	11.61	484	11.52	0.09
	Dhauliganga-HPS	280	280	282	0	2.55	106	2.53	0.02
	Dulhasti-HPS	390	387	400	268	7.73	322	7.03	0.70
	Sewa-II HPS	120	119	125	0	2.10	88	2.09	0.01
	Sub Total (C)	3305	2721	2988	1275	50.34	2098	47.75	2.59
	D.NJPC	Nathpa Jhakri	1500	1605	1556	252	23.02	959	22.70
Sub Total (D)		1500	1605	1556	252	23.02	959	22.70	0.32
E. THDC	Tehri HPS	1000	213	342	301	4.79	200	4.75	0.04
	Koteshwar HPS	400	211	163	0	1.66	69	1.65	0.01
	Sub Total (E)	1400	423	505	301	6.45	269	6.40	0.05
F. BBMB	Bhakra HPS	1480	481	983	346	12.39	516	11.56	0.84
	Dehar HPS	990	332	660	435	9.55	398	7.98	1.58
	Pong HPS	396	65	180	60	1.61	67	0.25	1.36
	Sub Total (F)	2866	879	1823	841	23.55	981	19.78	3.77
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	84	85	1.46	61	1.31	0.15
	KWHEP HPS(IPP)	1000	0	900	651	13.06	544	13.10	-0.04
	Malana Stg-II HPS	100	0	105	0	0.59	24	0.53	0.05
	Shree Cement TPS	300	0	258	262	6.22	259	6.20	0.02
	Budhil HPS(IPP)	70	0	34	69	0.68	28	0.59	0.09
	Sub Total (G)	1662	0	1381	1067	22.01	917	21.73	0.28
H. Total Regional Entities (A-G)	22836	16000	17282	12866	311.29	12970	324.81	-13.52	

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	840	840	16.93	705
	Guru Nanak Dev TPS(Bhatinda)	440	338	340	6.74	281
	Guru Hargobind Singh TPS(L.mbt)	920	887	961	19.10	796
	Thermal (Total)	2620	2065	2141	42.76	1782
	Total Hydro	1148	321	379	7.19	299
	Total Punjab	3768	2386	2520	49.95	2081
Haryana	Panipat TPS	1367	653	446	15.16	632
	DCRTPP (Yamuna nagar)	600	576	566	12.70	529
	Faridabad GPS (NTPC)	432	188	192	4.26	178
	RGTPP (khedar) (IPP)	1200	512	527	12.13	506
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	1320	387	388	9.59	400
	Thermal (Total)	4944	2316	2119	53.85	2244
	Total Hydro	62	27	21	0.60	25
	Total Haryana	5006	2343	2140	54.45	2269
	Rajasthan	kota TPS	1240	1177	1178	27.44
suratgarh TPS		1500	1129	948	24.88	1036
Chabra TPS		500	450	443	10.29	429
Dholpur GPS		330	132	141	3.34	139
Ramgarh GPS		111	105	86	2.34	98
RAPS A (NPC)		300	0	0	0.00	0
Barsingsar (NLC)		250	109	109	2.89	120
Giral LTPS		250	58	35	1.19	50
Rajwest LTPS (IPP)		1080	696	704	16.06	669
VSLP LTPS (IPP)		135	0	0	0.00	0
Thermal (Total)		5696	3856	3644	88.42	3684
Total Hydro		550	0	0	0.00	0
Wind power		2191	55	341	5.37	224
Biomass		91	31	31	0.73	31
Solar		201	0	0	1.83	76
Renewable/Others (Total)		2483	86	372	7.94	331
Total Rajasthan		8729	3942	4016	96.36	4015
UP		Anpara TPS	1630	1264	1350	28.60
	Obra TPS	1382	551	558	12.10	504
	Paricha TPS	890	789	839	17.90	746
	Panki TPS	210	80	70	1.80	75
	Harduaganj TPS	665	305	298	6.40	267
	Tanda TPS (NTPC)	440	402	401	9.80	409
	Roza TPS (IPP)	1200	558	540	12.84	535
	Anpara-C (IPP)	1200	473	1007	20.05	836
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	315	322	8.74	364
	Thermal (Total)	8067	4737	5385	118.23	4926
	Vishnuparyag HPS (IPP)	400	158	174	3.99	166
	Other Hydro	527	48	152	2.79	116
	Cogeneration	981	500	500	12.00	500
	Total UP	9975	5443	6211	137.01	5543
Uttarakhand	Total Hydro	1303	567	526	13.24	552
	Total Uttarakhand	1303	567	526	13.24	552
Delhi	Rajghat TPS	135	104	101	2.39	99
	Delhi Gas Turbine	282	187	190	4.60	192
	Pragati Gas Turbine	330	261	263	6.49	270
	Rithala GPS	108	0	0	0.00	0
	Bawana GPS	677	23	23	0.71	29
	Badarpur TPS (NTPC)	705	580	575	13.09	546
	Thermal (Total)	2237	1155	1152	27.27	1136
	Total Delhi	2237	1155	1152	27.27	1136
HP	Baspa HPS (IPP)	330	200	120	2.85	119
	Malana HPS (IPP)	86	88	7	0.64	27
	Other Hydro	589	379	365	9.58	399
	Total HP	1005	667	492	13.06	544
J & K	Baglihar HPS (IPP)	450	380	378	9.18	383
	Other Hydro	323	50	98	1.57	65
	Gas/Diesel/Others	183	0	0	0.00	0
	Total J & K	956	430	476	10.75	448
Total State Control Area Generation		32979	16933	17533	402.10	16588
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			1925	2066	36.59	1525
Total Regional Availability(Gross)		55815	36140	32465	749.98	31083

IV. Total Hydro Generation:

Regional Entities Hydro	10364	7961	3405	118.47	4936
State Control Area Hydro	5368	2060	2046	51.62	1985
Total Regional Hydro	15731	10021	5451	170.09	6921

V(A). Inter Regional Exchange [Import (+ve)/Export (-ve)] [Linkwise]

Element	Peak(20:00 Hrs)	Off Peak(03:00 Hrs)	Maximum Interchange (MW)		Energy (MU)		Net Energy MU
	MW	MW	Import	Export	Import	Export	
Vindhychal B/B	-250	-250	0	250	0.00	6.07	-6.07
Gwalior-Agra (D/C)	715	876	1079	0	14.70	0.00	14.70
Zerda-Kankroli	-47	-166	0	283	0.00	3.62	-3.62
Zerda-Bhinmal	-16	-125	45	254	0.00	2.47	-2.47
Malanpur-Auraiya	-125	-46	0	125	0.00	1.82	-1.82
Badod-Kota/Morak	-35	-105	0	224	0.00	2.74	-2.74
Mundra-Mohindergarh(HVDC)	1192	1179	1442	0	29.00	0.00	29.00
Sub Total WR	1434	1363			43.70	16.72	26.98
Pusauli Bypass	-150	100	100	150	0.97	2.18	-1.21
MZP- GKP (D/C)	138	126	330	0	1.51	0.00	1.51
Patna-Balia(D/C)	240	398	410	0	7.58	0.00	7.58
B'Sharif-Balia (D/C)	120	75	143	56	1.20	0.00	1.20
Pusauli-Balia	-42	-73	0	106	0.00	1.33	-1.33
Gaya-Fatehpur (765 Kv)	83	-30	83	76	0.00	0.21	-0.21
Pusauli-Sahupuri	138	147	157	0	3.17	0.00	3.17
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-36	-40	0	44	0.00	1.08	-1.08
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sub Total ER	491	703			14.42	4.81	9.62
Total IR Exch	1925	2066			58.12	21.53	36.59

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
28.99	0.62	29.62	-7.24	-10.07	0.00	-0.48	1.67	-1.67

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
24.05	24.89	48.94	9.62	26.98	36.59	-14.43	2.08	-12.35

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	0.25	84.94	84.69	76.38	15.06

<----- 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				
50.59	8.04	49.63	19.25	50.09	0.23	0.12	50.40	49.82

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	414	11:28	408	6:12	0.0	0.0	0.0	0.0
Gorakhpur	400	426	15:35	409	6:27	0.0	0.0	26.1	0.0
Bareilly	400	423	7:20	404	19:24	0.0	0.0	0.7	0.0
Kanpur	400	418	4:02	404	19:24	0.0	0.0	0.0	0.0
Dadri	400	420	8:03	407	19:24	0.0	0.0	0.0	0.0
Balabhgarh	400	426	3:48	410	19:26	0.0	0.0	32.6	0.0
Bawana	400	421	8:04	406	19:22	0.0	0.0	0.1	0.0
Bassi	400	428	4:02	407	19:24	0.0	0.0	21.7	0.0
Hissar	400	412	13:02	396	19:23	0.0	0.0	0.0	0.0
Moga	400	415	8:03	401	19:25	0.0	0.0	0.0	0.0
Abdullapur	400	419	8:03	402	19:24	0.0	0.0	0.0	0.0
Nalagarh	400	417	8:03	402	19:24	0.0	0.0	0.0	0.0
Kishenpur	400	412	23:59	399	19:15	0.0	0.0	0.0	0.0
Wagoora	400	408	3:40	386	20:10	0.0	4.9	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	758	9:20	738	14:00	0.0	0.0	0.0	0.0
Balia	765	761	8:01	733	6:26	0.0	0.0	100.0	100.0
Moga	765	780	8:03	751	19:25	0.0	0.0	100.0	100.0
Agra	765	781	18:02	745	5:42	0.0	0.0	0.0	0.0
Bhiwani	765	793	13:29	762	5:40	0.0	0.0	0.0	0.0
Unnao	765	758	18:17	730	5:42	0.0	37.1	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	479.80	454.47	474.67	345.61	430.67	345.61
Pong	426.72	384.05	400.36	230.85	403.34	296.79	57.03	296.79
Tehri	829.79	740.04	763.10	146.00	818.65	982.26	95.83	144.00
Koteshwar	612.50	598.50	599.10	0.30	610.68	4.86	14.00	123.00
Chamera-I	760.00	748.75	NA	NA	NA	NA	164.91	186.02
Rihand	268.22	252.98	257.10	162.00	258.32	216.70	NA	NA
RPS	352.80	343.81	346.02	NA	348.41	NA	NA	NA
Jawahar Sagar	298.70	295.78	298.16	NA	298.25	NA	NA	NA
RSD	527.91	487.91	507.32	NA	497.01	NA	152.34	29.90

* NA: Not Available

X. System Constraints:

XI. Grid Disturbance / Any Other Significant Event:

XII. Weather Conditions For 26.04.2013 :

1.Normal weather.

XIII. Synchronisation of new generating units :

0.00

XIV. Synchronisation of new 220 / 400 / 765 KV lines and energising of bus / /substation :

XV. Tripping of lines in pooling stations :

XVI. Complete generation loss in a generating station :

Report for : 26.04.2013

पारी प्रभाती अश्विन्ता / SHIFT CHARGE ENGINEER