

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 29.04.2014
Date of Reporting : 30.04.2014

I. Regional Availability/Demand:

Evening Peak (20:00 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
38149	2495	40644	49.98	35708	1080	36788	49.95	847.8	46.09

* 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:

UI [OD:(+ve), UD: (-ve)]

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	50.71	8.71		59.42	60.99	59.81	-1.18	119.23	0.00
Haryana	46.60	0.59		47.19	67.91	67.26	-0.65	114.45	1.40
Rajasthan	103.03	0.28	3.68	106.98	58.43	60.67	2.24	167.65	3.45
Delhi	17.13			17.13	69.16	70.18	1.03	87.31	1.09
UP	135.52	6.19	4.80	146.51	121.41	121.54	0.13	268.04	37.92
Uttarakhand		10.98		10.98	23.09	23.14	0.05	34.12	0.50
HP		13.96		13.96	10.37	10.34	-0.03	24.30	0.03
J & K		10.51	0.00	10.51	19.79	17.42	-2.37	27.93	1.70
Chandigarh				0.00	3.33	4.73	1.40	4.73	0.00
Total	352.98	51.21	8.48	412.67	434.47	435.08	0.61	847.75	46.09

* Shortage furnished by the respective constituent.\$ Others include UP Co-generation and JK Diesel

II. B. State's Demand Met in MWs:

UI/OA/PX [OD/Import: (+ve), UD/Export: (-ve)]

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	STOA/PX transaction
Punjab	5831	0	26	271	5188	0	-17	178	-0.79
Haryana	6007	71	48	316	5041	0	-190	253	-3.58
Rajasthan	7041	339	298	-102	6867	0	-101	-118	2.02
Delhi	4006	0	-3	-45	3238	0	-20	-463	-4.99
UP	11122	1910	-312	1102	11628	1080	-13	1550	28.74
Uttarakhand	1617	75	75	418	1302	0	-3	412	10.65
HP	979	0	-160	-592	861	0	-26	-273	-7.47
J&K	1324	100	-175	-282	1438	0	142	-257	-6.60
Chandigarh	223	0	12	0	146	0	-6	0	0.00
Total	38149	2495	-191	1086	35708	1080	-235	1281	17.99

* STOA figures are at sellers boundary & PX figures are at regional boundary.

III. Regional Entities :

UI [OG:(+ve), UG: (-ve)]

Station/ Constituent	Inst. Capacity	Declared	Peak MW	Off Peak MW	Energy	Average	Schedule	UI
	(Effective) MW	Capacity(MW)	(Gross)	(Gross)	(Net MU)	Sentout(MW)	Net MU	Net MU
A. NTPC								
Singrauli STPS	2000	1738	2069	1569	41.92	1747	41.70	0.22
Rihand I STPS	1000	850	941	933	20.72	863	20.40	0.32
Rihand II STPS	1000	921	978	1041	22.20	925	22.11	0.09
Rihand III STPS	1000	865	900	988	20.78	866	20.75	0.02
Dadri I STPS	840	813	873	877	19.30	804	19.51	-0.21
Dadri II STPS	980	765	778	746	17.66	736	17.86	-0.20
Unchahar I TPS	420	408	420	430	9.37	390	9.71	-0.34
Unchahar II TPS	420	203	216	218	4.54	189	4.83	-0.29
Unchahar III TPS	210	204	198	208	4.55	190	4.71	-0.16
ISTPP (Jhajjar)	1500	1000	499	518	11.10	462	11.33	-0.23
Dadri GPS	830	805	186	184	4.11	171	4.69	-0.58
Anta GPS	419	391	230	251	5.53	230	5.53	0.00
Auraiya GPS	663	642	145	155	3.38	141	3.58	-0.20
Dadri Solar	5		0	0	0.03	1		0.03
Unchahar Solar	10		0	0	0.00	0		0.00
Sub Total (A)	11297	9606	8433	8118	185	7716	187	-2
B. NPC								
NAPS	440	292	314	323	6.74	281	7.01	-0.27
RAPS- B	440	410	446	451	9.64	402	9.84	-0.20
RAPS- C	440	420	218	224	9.74	406	10.08	-0.34
Sub Total (B)	1320	1122	978	998	26.12	1088	26.93	-0.81
C. NHPC								
Chamera I HPS	540	537	540	180	8.36	348	8.25	0.11
Chamera II HPS	300	300	302	301	6.17	257	6.10	0.07
Chamera III HPS	231	231	228	232	4.06	169	4.00	0.06
Bairasui HPS	180	122	122	122	2.72	114	2.93	-0.20
Salal-HPS	690	525	115	100	13.20	550	12.63	0.56
Tanakpur-HPS	94	27	21	31	0.68	28	0.65	0.04
Uri-HPS	480	475	476	474	11.51	480	11.40	0.11
Uri-II HPS	240	239	182	244	5.77	240	5.73	0.04
Dhauliganga-HPS	280	0	0	0	0.00	0	0.00	0.00
Dulhasti-HPS	390	387	416	124	7.83	326	7.50	0.33
Sewa-II HPS	120	122	130	130	3.03	126	2.93	0.10
Parbati 3	390	260	0	0	1.77	74	1.66	0.11
Sub Total ©	3935	3225	2532	1938	65	2712	64	1
D. SJVNL								
NJPC	1500	1605	1031	510	14.72	614	14.04	0.68
Rampur HEP	206		0	0	0.00	0		0.00
Sub Total (D)	1706	1605	1031	510	14.72	614	14.04	0.68
E. THDC								
Tehri HPS	1000	480	482	312	7.65	319	7.50	0.15
Koteshwar HPS	400	150	271	91	3.68	153	3.60	0.08
Sub Total (E)	1400	630	753	403	11.33	472	11.10	0.23
F. BBMB								
Bhakra HPS	1514	610	1062	483	15.42	643	14.63	0.79
Dehar HPS	990	320	330	330	7.92	330	7.68	0.24
Pong HPS	396	41	0	186	1.05	44	0.98	0.08
Sub Total (F)	2900	970	1392	999	24.39	1016	23.28	1.11
G. IPP(s)/JV(s)								
ADHPL HPS(IPP)	192	0	121	115	1.33	55	1.24	0.09
KWHEP HPS(IPP)	1000	0	842	300	7.33	305	7.19	0.13
Malana Stg-II HPS	100	0	111	0	0.77	32	0.72	0.05
Shree Cement TPS	300	0	281	284	6.88	287	6.87	0.01
Budhil HPS(IPP)	70	0	7	7	0.88	37	0.82	0.05
Sub Total (G)	1662	0	1362	706	17.18	716	16.84	0.34
H. Total Regional Entities (A-G)	24221	17158	16481	13672	344.02	14334	342.68	1.34

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	970	990	21	869
	Guru Nanak Dev TPS(Bhatinda)	440	180	193	4	167
	Guru Hargobind Singh TPS(L.mbt)	920	811	895	17	724
	Goindwal(GVK)		0	0	0	0
	Rajpura	700	618	0	8	353
	Talwandi Saboo	660	0	0	0.00	0
	Thermal (Total)	3980	2579	2078	51	2113
	Total Hydro	1148	524	411	8.71	363
Total Punjab	5128	3103	2489	59.42	2476	
Haryana	Panipat TPS	1367	215	211	5.15	215
	DCRTPP (Yamuna nagar)	600	582	571	12.88	536
	Faridabad GPS (NTPC)	432	171	190	4.10	171
	RGTPP (khedar) (IPP)	1200	588	476	12.53	522
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	1320	596	610	11.95	498
	Thermal (Total)	4944	2152	2058	47	1942
	Total Hydro	62	26	26	0.59	25
	Total Haryana	5006	2178	2084	47.19	1966
	Rajasthan	kota TPS	1240	1154	1107	26.77
suratgarh TPS		1500	1101	1133	26.64	1110
Chabra TPS		750	356	409	7.38	308
Dholpur GPS		330	129	129	3.19	133
Ramgarh GPS		221	65	87	1.88	78
RAPS A (NPC)		300	180	0	3.35	140
Barsingsar (NLC)		250	83	81	1.84	77
Giral LTPS		250	84	84	1.99	83
Rajwest LTPS (IPP)		1080	944	945	22.64	943
VSLP LTPS (IPP)		135	0	0	0.00	0
Kalisindh Thermal		600	0	0	0.00	0
Kawai(Adani)		1320	0	610	7.34	306
Thermal (Total)		7976	4096	4585	103	4293
Total Hydro		550	0	0	0.28	12
Wind power		2191	137	49	2.63	110
Biomass		91	28	28	0.68	28
Solar		201	0	0	0.37	15
Renewable/Others (Total)		2483	165	77	3.68	153
Total Rajasthan	11009	4261	4662	106.98	4458	
UP	Anpara TPS	1630	1411	1418	30.00	1250
	Obra TPS	1288	418	429	8.60	358
	Paricha TPS	1140	858	803	17.10	713
	Panki TPS	210	85	90	1.90	79
	Harduaganj TPS	665	356	415	8.20	342
	Tanda TPS (NTPC)	440	374	379	8.60	358
	Roza TPS (IPP)	1200	1134	1130	27.09	1129
	Anpara-C (IPP)	1200	1076	1071	25.66	1069
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	361	360	8.38	349
	Thermal (Total)	8223	6073	6095	136	5647
	Vishnuparyag HPS (IPP)	400	148	133	3.24	135
	Other Hydro	527	102	152	2.94	123
	Cogeneration	981	200	200	4.80	200
	Total UP	10131	6523	6580	146.51	5969
	Uttarakhand	Total Hydro	1303	524	396	10.98
Total Uttarakhand		1303	524	396	10.98	458
Delhi	Rajghat TPS	135	53	53	1.26	53
	Delhi Gas Turbine	282	141	150	3.43	143
	Pragati Gas Turbine	330	89	93	2.19	91
	Rithala GPS	95	0	0	0.00	0
	Bawana GPS	1370	0	0	0.13	5
	Badarpur TPS (NTPC)	705	510	480	10.12	422
	Thermal (Total)	2917	793	776	17.13	714
	Total Delhi	2917	793	776	17.13	714
HP	Baspa HPS (IPP)	300	139	30	2.08	87
	Malana HPS (IPP)	86	92	48	0.88	37
	Other Hydro	728	473	499	11.00	458
	Total HP	1114	704	577	13.96	582
J & K	Baglihar HPS (IPP)	450	436	438	10.51	438
	Other Hydro/IPP	436	0	0	0.00	0
	Gas/Diesel/Others	209	0	0	0.00	0
	Total J & K	1094	436	438	10.51	438
Total State Control Area Generation		37702	18522	18002	412.67	17059
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			4655	5424	114.73	4781
Total Regional Availability(Gross)		61923	39658	37098	871.42	36174

IV. Total Hydro Generation:

Regional Entities Hydro	11233	6782	4265	124.97	5207
State Control Area Hydro	5589	2316	2000	51.21	1999
Total Regional Hydro	16823	9098	6265	176.18	7206

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	300	500	500	0	9.44	0.00	9.44
Gwalior-Agra (D/C)	1738	1910	2130	0	41.37	0.00	41.37
Zerda-Kankroli	-134	-169	0	279	0.00	4.92	-4.92
Zerda-Bhinmal	-112	-119	88	241	0.00	3.07	-3.07
Malanpur-Auraiya	-67	-27	0	67	0.00	0.57	-0.57
Badod-Kota/Morak	-39	-99	0	144	0.00	2.15	-2.15
Mundra-Mohindergarh(HVDC)	2000	1999	2014	0	48.35	0.00	48.35
Sub Total WR	3686	3995			99.16	10.71	88.45
Pusaui Bypass	410	400	400	0	9.64	0.00	9.64
MZP- GKP (D/C)	98	292	318	56	3.00	0.00	3.00
Patna-Balia(D/C)	259	408	444	0	7.84	0.00	7.84
B'Sharif-Balia (D/C)	114	215	240	0	3.46	0.00	3.46
Pusaui-Balia	-104	-65	0	121	0.00	1.85	-1.85
Gaya-Fatehpur (765 Kv)	-8	-12	68	71	0.00	0.14	-0.14
Pusaui-Sahupuri	156	180	183	0	3.76	0.00	3.76
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	0	0	0	0	0.00	0.00	0.00
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sasaram - Fatehpur(765 KV)	44	11	123	33	0.58	0.00	0.58
Sub Total ER	969	1429			28.28	1.99	26.29
Total IR Exch	4655	5424			127.44	12.70	114.73

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
32.93	0.26	33.19	3.02	0.55	-6.28	6.98	0.00	0.00

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
29.93	80.11	110.04	26.29	88.45	114.73	-3.64	8.34	4.70

VI. Frequency Profile <----- % of Time Frequency ----->

<49.2	<49.7	<49.8	<49.9	<50.0	49.9-50.05	50.05-50.10	>50.10	>50.20	>50.50
0.00	4.51	23.53	54.66	81.28	36.39	6.49	2.49	0.00	0.00

<----- Frequency (Hz) ----->				Average Frequency	Frequency Variation Index	Std. Dev.	Frequency in 15 Min Block	
Maximum		Minimum					MAX (Hz)	MIN
Freq	Time	Freq	Time	Hz				
50.20	18.35	49.49	22.36	49.89	0.26	0.12	50.17	49.72

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	402	12:42	395	01:43	0.0	0.0	0.0	0.0
Gorakhpur	400	426	18:02	411	21:09	0.0	0.0	34.2	0.0
Bareilly	400	416	08:04	396	14:20	0.0	0.0	0.0	0.0
Kanpur	400	415	08:03	401	21:06	0.0	0.0	0.0	0.0
Dadri	400	416	08:02	396	14:51	0.0	0.0	0.0	0.0
Ballabgarh	400	425	08:03	404	19:33	0.0	0.0	5.1	0.0
Bawana	400	421	08:03	400	19:19	0.0	0.0	0.3	0.0
Bassi	400	428	04:02	409	09:47	0.0	0.0	30.8	0.0
Hissar	400	412	08:02	392	19:14	0.0	0.0	0.0	0.0
Moga	400	410	08:04	393	19:23	0.0	0.0	0.0	0.0
Abdullapur	400	420	08:02	400	19:19	0.0	0.0	0.0	0.0
Nalagarh	400	417	08:02	400	19:32	0.0	0.0	0.0	0.0
Kishenpur	400	414	13:02	398	20:18	0.0	0.0	0.0	0.0
Wagoora	400	412	04:03	391	19:35	0.0	0.0	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	773	08:04	742	21:07	0.0	0.0	0.0	0.0
Balia	765	779	08:04	746	21:09	0.0	0.0	0.0	0.0
Moga	765	783	08:04	748	19:35	0.0	0.0	0.0	0.0
Agra	765	803	08:05	768	22:11	0.0	0.0	0.4	0.0
Bhiwani	765	797	08:00	761	19:00	0.0	0.0	0.0	0.0
Unnao	765	757	08:06	730	21:06	0.0	68.1	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 (m³/s)	Usage (m³/s)
Bhakra	513.59	445.62	0.00	0.00	0.00	0.00	0.00	0.00
Pong	426.72	384.05	0.00	0.00	0.00	0.00	0.00	0.00
Tehri	829.79	740.04	0.00	0.00	0.00	0.00	0.00	0.00
Koteshwar	612.50	598.50	0.00	0.00	0.00	0.00	0.00	0.00
Chamera-I	760.00	748.75	0.00	0.00	0.00	0.00	0.00	0.00
Rihand	268.22	252.98	0.00	0.00	0.00	0.00	0.00	0.00
RPS	352.80	343.81	0.00	0.00	0.00	0.00	0.00	0.00
Jawahar Sagar	298.70	295.78	0.00	0.00	0.00	0.00	0.00	0.00
RSD	527.91	487.91	0.00	0.00	0.00	0.00	0.00	0.00

* NA: Not Available

X. System Constraints:

XI. Grid Disturbance / Any Other Significant Event:

XII. Weather Conditions For 29.04.2014 :

Hot 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 :

Dhailiganga (280MW) are out of operation since 16.06.2013.

Civil construction is in progress for rectification of the major damages in Plants/Dam caused due to flood Dhailiganga expected by April, 2014 .

Report for : 29.04.2014

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER