

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरसिस्टम की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 29.08.2013
Date of Reporting : 30.08.2013

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
40433	2922	43355	49.85	37990	290	38280	50.25	927.7	28.93

* 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	49.42	21.48		70.89	125.75	125.63	-0.12	196.53	0.00
Haryana	75.46	0.65		76.11	79.61	80.63	1.02	156.74	1.34
Rajasthan	84.85	7.43	15.75	108.03	52.29	49.90	-2.38	157.94	0.45
Delhi	23.39			23.39	76.37	74.79	-1.58	98.19	0.10
UP	105.85	3.79	1.00	110.64	121.88	117.22	-4.66	227.86	25.32
Uttarakhand		20.84		20.84	11.90	11.08	-0.82	31.92	0.00
HP		22.90		22.90	0.47	1.16	0.69	24.06	0.03
J & K		13.61	0.00	13.61	17.42	15.53	-1.89	29.14	1.70
Chandigarh				0.00	5.79	5.36	-0.43	5.36	0.00
Total	338.97	90.70	16.75	446.42	491.47	481.30	-10.17	927.73	28.93

* 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	STOA/PX transaction	
Punjab	8497	0	-52	1963	8351	0	-32	2088	49.67	
Haryana	7078	329	11	563	5693	0	-680	551	12.99	
Rajasthan	6731	84	16	-37	6497	0	-118	-20	-0.41	
Delhi	4565	29	-71	379	3648	0	-182	273	7.01	
UP	9275	2380	-68	651	10654	290	-353	956	19.34	
Uttarakhand	1491	0	-36	23	1221	0	-55	-114	-2.22	
HP	1143	0	70	-1115	825	0	17	-1268	-27.63	
J&K	1402	100	-37	-240	927	0	-74	-520	-7.08	
Chandigarh	251	0	-13	0	175	0	-34	-20	0.11	
Total	40433	2922	-180	2187	37990	290	-1511	1927	51.78	

* 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	1914	1931	2096	45.75	1906	45.88	-0.13	
	Rihand I STPS	1000	920	985	927	21.09	879	21.21	-0.12	
	Rihand II STPS	1000	470	518	490	10.77	449	10.66	0.11	
	Rihand III STPS	500	475	510	432	10.64	443	11.11	-0.47	
	Dadri I STPS	840	600	660	584	12.19	508	12.38	-0.20	
	Dadri II STPS	980	975	1001	721	19.27	803	19.46	-0.19	
	Unchahar I TPS	420	391	416	382	8.48	353	8.49	-0.02	
	Unchahar II TPS	420	404	435	403	8.26	344	8.46	-0.21	
	Unchahar III TPS	210	201	207	154	3.68	153	3.62	0.06	
	ISTPP (Jhajjar)	1500	1480	517	377	9.15	381	9.53	-0.39	
	Dadri GPS	830	653	310	310	7.22	301	7.26	-0.05	
	Anta GPS	419	394	243	235	5.53	230	5.60	-0.07	
	Auraiya GPS	663	623	156	156	3.63	151	3.66	-0.03	
	Sub Total (A)	10782	9499	7889	7267	165.64	6901	167.33	-1.69	
	B. NPC	NAPS	440	273	175	331	5.52	230	6.63	-1.10
		RAPS- B	440	399	439	444	9.81	409	9.58	0.23
RAPS- C		440	400	443	467	9.79	408	9.60	0.19	
Sub Total (B)		1320	1072	1057	1242	25.12	1047	25.80	-0.68	
C. NHPC	Chamera I HPS	540	534	540	540	12.69	529	12.82	-0.12	
	Chamera II HPS	300	300	300	299	7.16	298	7.20	-0.05	
	Chamera III HPS	231	231	230	233	4.90	204	4.89	0.00	
	Bairasuil HPS	180	179	120	120	2.77	115	2.97	-0.20	
	Salal-HPS	690	659	668	660	15.73	656	15.82	-0.08	
	Tanakpur-HPS	94	94	91	93	2.22	93	2.22	0.00	
	Uri-HPS	480	298	358	323	7.38	307	7.06	0.31	
	Dhauliganga-HPS	280	0	0	0	0.00	0	0.00	0.00	
	Dulhasti-HPS	390	378	410	390	9.04	377	8.84	0.20	
	Sewa-II HPS	120	119	126	125	2.87	120	2.97	-0.10	
	Sub Total (C)	3305	2792	2843	2783	64.75	2698	64.79	-0.04	
D. NJPC	Nathpa Jhakri	1500	1605	1621	1623	38.71	1613	38.51	0.20	
	Sub Total (D)	1500	1605	1621	1623	38.71	1613	38.51	0.20	
E. THDC	Tehri HPS	1000	1060	1066	1043	25.43	1059	25.25	0.18	
	Koteshwar HPS	400	381	387	380	8.42	351	8.40	0.02	
	Sub Total (E)	1400	1441	1453	1423	33.85	1410	33.65	0.20	
F. BBMB	Bhakra HPS	1497	1234	1252	1321	29.70	1238	29.63	0.07	
	Dehar HPS	990	598	825	560	14.27	595	14.35	-0.08	
	Pong HPS	396	250	246	192	5.98	249	6.01	-0.03	
	Sub Total (F)	2883	2082	2323	2073	49.95	2081	49.98	-0.03	
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	164	107	3.14	131	2.90	0.24	
	KWHEP HPS(IPP)	1000	0	1202	1197	28.47	1186	28.49	-0.02	
	Malana Stg-II HPS	100	0	108	81	2.01	84	1.88	0.13	
	Shree Cement TPS	300	0	127	121	2.96	123	3.01	-0.05	
	Budhil HPS(IPP)	70	0	70	64	1.48	62	1.68	-0.20	
	Sub Total (G)	1662	0	1671	1570	38.05	1585	37.96	0.09	
H. Total Regional Entities (A-G)	22852	18491	18857	17981	416.07	17336	418.02	-1.96		

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	1260	1235	26.43	1101
	Guru Nanak Dev TPS(Bhatinda)	440	195	105	2.70	112
	Guru Hargobind Singh TPS(L.mbt)	920	931	937	20.29	845
	Goindwal(GVK)		0	0	0.00	0
	Thermal (Total)	2620	2386	2277	49.42	2059
	Total Hydro	1148	903	893	21.48	895
Total Punjab		3768	3289	3170	70.89	2954
Haryana	Panipat TPS	1367	642	607	14.81	617
	DCRTPP (Yamuna nagar)	600	281	258	6.36	265
	Faridabad GPS (NTPC)	432	284	269	6.74	281
	RGTPP (khedar) (IPP)	1200	1083	841	23.62	984
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	1320	1059	1060	23.93	997
	Thermal (Total)	4944	3349	3035	75.46	3144
	Total Hydro	62	23	24	0.65	27
	Total Haryana	5006	3372	3059	76.11	3171
	Rajasthan	kota TPS	1240	844	851	20.92
suratgarh TPS		1500	827	874	19.98	832
Chabra TPS		500	213	223	5.03	210
Dholpur GPS		330	119	119	2.94	123
Ramgarh GPS		111	52	64	1.58	66
RAPS A (NPC)		300	180	180	3.96	165
Barsingsar (NLC)		250	92	91	2.11	88
Giral LTPS		250	48	35	1.01	42
Rajwest LTPS (IPP)		1080	524	590	13.85	577
VSLP LTPS (IPP)		135	0	0	0.00	0
Kalisindh Thermal		600	0	0	0.00	0
Kawai(Adani)		660	553	597	13.48	562
Thermal (Total)		6956	3452	3624	84.85	3535
Total Hydro		550	301	269	7.43	310
Wind power		2191	558	450	14.30	596
Biomass		91	35	35	0.84	35
Solar		201	0	0	0.61	26
Renewable/Others (Total)		2483	593	485	15.75	656
Total Rajasthan		9989	4346	4378	108.03	4501
UP		Anpara TPS	1630	1185	1306	26.20
	Obra TPS	1288	199	308	5.90	246
	Paricha TPS	1140	749	724	14.90	621
	Panki TPS	210	155	155	3.50	146
	Harduaganj TPS	665	397	394	8.50	354
	Tanda TPS (NTPC)	440	389	392	9.58	399
	Roza TPS (IPP)	1200	595	914	17.02	709
	Anpara-C (IPP)	1200	671	674	16.01	667
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	180	227	4.23	176
	Thermal (Total)	8223	4520	5094	105.85	4411
	Vishnuparyag HPS (IPP)	400	0	0	0.00	0
	Other Hydro	527	197	171	3.79	158
	Cogeneration	981	40	40	1.00	42
	Total UP	10131	4757	5305	110.64	4610
	Uttarakhand	Total Hydro	1303	900	908	20.84
Total Uttarakhand		1303	900	908	20.84	868
Delhi	Rajghat TPS	135	47	48	0.95	39
	Delhi Gas Turbine	282	110	116	2.65	110
	Pragati Gas Turbine	330	265	148	4.95	206
	Riithala GPS	95	0	0	0.00	0
	Bawana GPS	686	243	222	5.61	234
	Badarpur TPS (NTPC)	705	485	430	9.25	385
	Thermal (Total)	2232	1150	964	23.39	975
Total Delhi	2232	1150	964	23.39	975	
HP	Baspa HPS (IPP)	330	331	301	7.72	322
	Malana HPS (IPP)	86	72	57	1.49	62
	Other Hydro	589	573	557	13.69	570
	Total HP	1005	976	915	22.90	954
J & K	Baglihar HPS (IPP)	450	436	438	10.47	436
	Other Hydro	323	132	128	3.14	131
	Gas/Diesel/Others	183	0	0	0.00	0
	Total J & K	956	568	566	13.61	567
Total State Control Area Generation		34390	19358	19265	446.42	18601
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			3358	2626	73.13	3047
Total Regional Availability(Gross)		57242	41573	39872	935.62	38984

IV. Total Hydro Generation:

Regional Entities Hydro	10380	9714	9287	220.87	9203
State Control Area Hydro	5368	3868	3746	90.70	3779
Total Regional Hydro	15748	13582	13033	311.57	12982

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	350	350	400	2.95	3.64	-0.70
Gwalior-Agra (D/C)	1179	772	1605	0	29.06	0.00	29.06
Zerda-Kankroli	-72	-239	0	279	0.00	4.25	-4.25
Zerda-Bhinmal	-62	-227	36	385	0.00	3.59	-3.59
Malanpur-Auraiya	-51	-48	0	71	0.00	0.75	-0.75
Badod-Kota/Morak	0	-76	18	80	0.00	0.64	-0.64
Mundra-Mohindergarh(HVDC)	1000	985	1001	0	22.54	0.00	22.54
Sub Total WR	2244	1517			54.55	12.88	41.67
Pusauli Bypass	-94	-193	0	230	0.00	3.48	-3.48
MZP- GKP (D/C)	493	569	688	0	14.63	0.00	14.63
Patna-Balia(D/C)	318	337	502	0	9.18	0.00	9.18
B'Sharif-Balia (D/C)	210	228	326	0	6.06	0.00	6.06
Pusauli-Balia	10	16	48	0	0.57	0.00	0.57
Gaya-Fatehpur (765 Kv)	100	49	156	0	2.54	0.00	2.54
Pusauli-Sahupuri	112	141	142	0	2.75	0.00	2.75
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-35	-38	0	45	0.00	0.80	-0.80
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sasaram - Fatehpur(765 KV)	0	0	0	0	0.00	0.00	0.00
Sub Total ER	1114	1109			35.74	4.28	31.46
Total IR Exch	3358	2626			90.28	17.15	73.13

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

ER	ISGS/LT Schedule (MU)		Bilateral Schedule (MU)		Power Exchange Shdl (MU)		Wheeling (MU)	
	Bhutan	Total	Through ER	Through WR	Through ER	Through WR	Through ER	Through WR
28.46	3.73	32.19	-9.19	39.15	-1.11	-10.92	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
24.77	64.43	89.19	31.46	41.67	73.13	6.70	-22.76	-16.06

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

<48.80	<49.0	<49.20	<49.50	<49.7	49.5 - 50.2	49.7-49.8	49.7 - 50.2	> 50.00	> 50.2
0.00	0.00	0.00	0.20	5.20	90.30	5.90	85.30	52.10	9.50

<----- Frequency (Hz) ----->				Average Frequency	Frequency Variation Index	Std. Dev.	Frequency in 15 Min Block	
Maximum		Minimum					MAX	MIN
Freq	Time	Freq	Time	Hz	(Hz)	(Hz)		
50.37	10.15	49.41	22.08	50.00	0.25	0.16	50.39	49.67

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	03:46	402	19:26	0.0	0.0	0.0	0.0
Gorakhpur	400	426	04:09	414	00:00	0.0	0.0	61.8	0.0
Bareilly	400	420	04:04	400	14:41	0.0	0.0	0.0	0.0
Kanpur	400	422	04:02	406	22:06	0.0	0.0	2.5	0.0
Dadri	400	409	18:01	398	14:45	0.0	0.0	0.0	0.0
Ballabgarh	400	427	04:01	405	14:41	0.0	0.0	23.0	0.0
Bawana	400	419	04:01	400	14:41	0.0	0.0	0.0	0.0
Bassi	400	429	04:02	405	14:37	0.0	0.0	11.5	0.0
Hissar	400	409	04:01	392	14:47	0.0	0.0	0.0	0.0
Moga	400	408	03:20	396	14:47	0.0	0.0	0.0	0.0
Abdullapur	400	411	06:56	397	14:27	0.0	0.0	0.0	0.0
Nalagarh	400	408	04:00	394	14:26	0.0	0.0	0.0	0.0
Kishenpur	400	416	13:03	403	20:42	0.0	0.0	0.0	0.0
Wagoora	400	415	03:00	394	20:41	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	04:04	738	22:07	0.0	0.7	0.0	0.0
Balia	765	770	08:05	743	22:07	0.0	0.0	0.0	0.0
Moga	765	772	03:20	748	14:39	0.0	0.0	0.0	0.0
Agra	765	806	04:04	763	22:08	0.0	0.0	2.5	0.0
Bhiwani	765	793	04:02	761	14:39	0.0	0.0	0.0	0.0
Unnao	765	776	04:03	751	14:48	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	510.38	1560.04	496.67	971.87	1184.75	881.67
Pong	426.72	384.05	422.45	1005.78	417.21	768.49	686.57	332.78
Tehri	829.79	740.04	819.90	1000.00	818.65	982.26	370.44	563.00
Koteshwar	612.50	598.50	609.35	4.44	NA	NA	563.00	569.00
Chamera-I	760.00	748.75	NA	NA	NA	NA	314.72	343.75
Rihand	268.22	252.98	259.72	289.60	262.07	422.80	NA	NA
RPS	352.80	343.81	352.44	NA	NA	NA	NA	190.60
Jawahar Sagar	298.70	295.78	297.61	NA	NA	NA	NA	224.89
RSD	527.91	487.91	524.05	144.00	510.99	144.00	389.36	437.41

* NA: Not Available

X. System Constraints:

XI. Grid Disturbance / Any Other Significant Event:

XII. Weather Conditions For 29.08.2013 :

1. Normal

XIII. Synchronisation of new generating units :

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 :

Vishnuprayag (400MW) and Dhauliganga (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
Vishnuprayag expected by Dec, 2013 and Dhauliganaga expected by March, 2014.

Report for : 29.08.2013

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER