

पावर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 28.08.2013
Date of Reporting : 29.08.2013

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
41226	988	42214	49.98	38581	0	38581	50.41	928.0	22.00

* 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	49.37	21.35		70.72	124.34	125.28	0.94	196.00	0.00
Haryana	73.53	0.63		74.16	77.56	79.17	1.61	153.33	0.18
Rajasthan	81.53	6.74	28.52	116.79	50.61	45.57	-5.05	162.35	0.00
Delhi	23.22			23.22	73.93	68.31	-5.62	91.53	0.62
UP	108.66	4.21	1.00	113.87	128.44	123.89	-4.55	237.76	19.49
Uttarakhand		22.15		22.15	10.37	8.99	-1.38	31.15	0.00
HP		23.09		23.09	-0.09	-0.57	-0.48	22.52	0.00
J & K		13.60	0.00	13.60	18.23	14.72	-3.52	28.32	1.70
Chandigarh				0.00	5.60	5.02	-0.58	5.02	0.00
Total	336.31	91.77	29.52	457.60	488.99	470.38	-18.61	927.98	22.00

* 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	8252	0	24	1628	8356	0	10	1955	45.07
Haryana	7023	58	-32	518	6633	0	85	203	9.95
Rajasthan	6654	0	-146	-50	6600	0	-161	75	1.01
Delhi	3929	0	-248	298	3940	0	-232	79	4.92
UP	11117	830	133	2015	9917	0	-564	2225	29.83
Uttarakhand	1538	0	-4	15	1208	0	-95	-140	-2.69
HP	1032	0	-50	-1115	856	0	29	-1292	-28.12
J&K	1452	100	-85	-158	871	0	-186	-469	-6.68
Chandigarh	228	0	-36	0	201	0	-28	-20	-0.13
Total	41226	988	-444	3152	38581	0	-1142	2617	53.15

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

III. Regional Entities :

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

A. NTPC	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
	Singrauli STPS	2000	1940	2094	2052	47.99	2000	46.53	1.46
	Rihand I STPS	1000	920	985	953	20.63	859	20.81	-0.18
	Rihand II STPS	1000	470	516	478	10.14	423	10.24	-0.09
	Rihand III STPS	500	485	508	405	10.26	428	10.33	-0.06
	Dadri I STPS	840	600	508	471	10.81	450	10.93	-0.11
	Dadri II STPS	980	970	1001	784	18.74	781	18.87	-0.13
	Unchahar I TPS	420	391	429	298	7.42	309	7.56	-0.14
	Unchahar II TPS	420	404	437	310	7.44	310	7.47	-0.04
	Unchahar III TPS	210	201	514	154	3.60	150	3.63	-0.04
	ISTPP (Jhajjar)	1500	1480	505	448	9.42	393	9.70	-0.28
	Dadri GPS	830	652	313	339	7.45	311	7.51	-0.06
	Anta GPS	419	394	227	215	5.21	217	5.37	-0.16
	Auraiya GPS	663	621	154	155	3.62	151	3.65	-0.03
	Sub Total (A)	10782	9527	8191	7062	162.74	6781	162.60	0.14
B. NPC	NAPS	440	288	327	336	7.02	292	6.91	0.11
	RAPS- B	440	398	441	446	9.59	399	9.55	0.04
	RAPS- C	440	400	457	465	9.85	410	9.60	0.25
	Sub Total (B)	1320	1086	1225	1247	26.45	1102	26.06	0.39
C. NHPC	Chamera I HPS	540	534	540	540	12.75	531	12.82	-0.07
	Chamera II HPS	300	300	302	300	7.21	300	7.20	0.01
	Chamera III HPS	231	231	227	233	5.11	213	5.08	0.03
	Bairasuil HPS	180	179	120	120	2.93	122	2.94	-0.01
	Salal-HPS	690	665	658	665	15.91	663	15.96	-0.05
	Tanakpur-HPS	94	94	92	90	2.20	92	2.21	-0.01
	Uri-HPS	480	312	344	311	7.54	314	7.26	0.28
	Dhauliganga-HPS	280	0	0	0	0.00	0	0.00	0.00
	Dulhasti-HPS	390	387	405	391	9.39	391	9.36	0.03
	Sewa-II HPS	120	119	125	126	2.98	124	2.97	0.01
	Sub Total (C)	3305	2821	2813	2776	66.02	2751	65.80	0.22
D.NJPC	Nathpa Jhakri	1500	1605	1625	1624	38.70	1613	38.52	0.18
	Sub Total (D)	1500	1605	1625	1624	38.70	1613	38.52	0.18
E. THDC	Tehri HPS	1000	1060	1070	1043	25.35	1056	25.25	0.10
	Koteshwar HPS	400	381	387	378	8.43	351	8.40	0.03
	Sub Total (E)	1400	1441	1457	1421	33.78	1408	33.65	0.13
F. BBMB	Bhakra HPS	1480	1202	1329	1253	29.54	1231	28.84	0.70
	Dehar HPS	990	607	825	600	14.86	619	14.58	0.29
	Pong HPS	396	239	372	192	6.13	255	5.75	0.39
	Sub Total (F)	2866	2048	2526	2045	50.53	2105	49.16	1.37
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	197	128	3.12	130	3.52	-0.40
	KWHEP HPS(IPP)	1000	0	1201	1095	28.51	1188	28.51	0.00
	Malana Stg-II HPS	100	0	105	95	2.21	92	2.23	-0.03
	Shree Cement TPS	300	0	130	122	2.97	124	3.02	-0.06
	Budhil HPS(IPP)	70	0	70	70	1.63	68	1.65	-0.03
	Sub Total (G)	1662	0	1703	1510	38.43	1601	38.94	-0.51
H. Total Regional Entities (A-G)		22836	18529	19540	17685	416.65	17361	414.72	1.93

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	1260	26.96	1123
	Guru Nanak Dev TPS(Bhatinda)	440	105	100	2.17	90
	Guru Hargobind Singh TPS(L.mbt)	920	934	938	20.24	844
	Goindwal(GVK)		0	0	0.00	0
	Thermal (Total)	2620	2299	2298	49.37	2057
	Total Hydro	1148	892	895	21.35	889
	Total Punjab	3768	3191	3193	70.72	2947
Haryana	Panipat TPS	1367	485	581	13.45	561
	DCRTPP (Yamuna nagar)	600	278	280	6.28	262
	Faridabad GPS (NTPC)	432	283	274	6.73	281
	RGTPP (khedar) (IPP)	1200	1118	1113	23.47	978
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	1320	1114	1114	23.59	983
	Thermal (Total)	4944	3278	3362	73.53	3064
	Total Hydro	62	26	23	0.63	26
	Total Haryana	5006	3304	3385	74.16	3090
Rajasthan	kota TPS	1240	826	850	19.39	808
	suratgarh TPS	1500	809	935	20.94	872
	Chabra TPS	500	218	384	7.89	329
	Dholpur GPS	330	119	119	2.80	117
	Ramgarh GPS	111	50	44	1.28	53
	RAPS A (NPC)	300	180	180	3.95	165
	Barsingsar (NLC)	250	92	92	2.13	89
	Giral LTPS	250	35	35	1.10	46
	Rajwest LTPS (IPP)	1080	463	545	12.12	505
	VSLP LTPS (IPP)	135	0	0	0.00	0
	Kalisindh Thermal	600	0	0	0.00	0
	Kawai(Adani)	660	455	324	9.95	414
	Thermal (Total)	6956	3247	3508	81.53	3397
	Total Hydro	550	271	349	6.74	281
	Wind power	2191	867	669	20.31	846
	Biomass	91	30	30	0.71	30
	Solar	201	0	0	0.77	32
	Renewable/Others (Total)	2483	897	699	28.52	1188
	Total Rajasthan	9989	4415	4556	116.79	4866
UP	Anpara TPS	1630	1156	981	25.30	1054
	Obra TPS	1288	298	235	6.90	288
	Paricha TPS	1140	676	663	14.70	613
	Panki TPS	210	135	63	2.90	121
	Harduaganj TPS	665	368	350	8.60	358
	Tanda TPS (NTPC)	440	387	330	9.03	376
	Roza TPS (IPP)	1200	1036	765	20.03	835
	Anpara-C (IPP)	1200	779	619	16.94	706
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	242	144	4.26	178
	Thermal (Total)	8223	5077	4150	108.66	4528
	Vishnuparyag HPS (IPP)	400	0	0	0.00	0
	Other Hydro	527	244	165	4.21	175
	Cogeneration	981	40	40	1.00	42
	Total UP	10131	5361	4355	113.87	4745
	Uttarakhand	Total Hydro	1303	909	951	22.15
Total Uttarakhand		1303	909	951	22.15	923
Delhi	Rajghat TPS	135	89	92	2.02	84
	Delhi Gas Turbine	282	117	41	2.23	93
	Pragati Gas Turbine	330	142	298	4.27	178
	Rithala GPS	95	0	0	0.00	0
	Bawana GPS	686	238	244	5.38	224
	Badarpur TPS (NTPC)	705	445	425	9.32	388
	Thermal (Total)	2232	1031	1100	23.22	968
	Total Delhi	2232	1031	1100	23.22	968
HP	Baspa HPS (IPP)	330	341	310	7.66	319
	Malana HPS (IPP)	86	71	60	1.52	63
	Other Hydro	589	597	583	13.91	580
	Total HP	1005	1009	953	23.09	962
J & K	Baglihar HPS (IPP)	450	436	436	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	564	13.60	567
Total State Control Area Generation		34390	19788	19057	457.60	19067
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			3744	3420	70.95	2956
Total Regional Availability(Gross)		57226	43072	40162	945.20	39383

IV. Total Hydro Generation:

Regional Entities Hydro	10364	9924	9184	222.87	9286
State Control Area Hydro	5368	3919	3900	91.77	3824
Total Regional Hydro	15731	13843	13084	314.64	13110

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	-350	200	400	350	2.30	4.10	-1.80
Gwalior-Agra (D/C)	1376	1121	1550	0	25.86	0.00	25.86
Zerda-Kankroli	38	-137	59	354	0.00	4.44	-4.44
Zerda-Bhinmal	56	-113	125	365	0.00	3.82	-3.82
Malanpur-Auraiya	-37	-22	0	78	0.00	1.08	-1.08
Badod-Kota/Morak	44	-47	55	145	0.00	1.23	-1.23
Mundra-Mohindergarh(HVDC)	998	983	1000	0	21.95	0.00	21.95
Sub Total WR	2125	1985			50.11	14.67	35.44
Pusauli Bypass	-73	-70	0	157	0.00	1.71	-1.71
MZP- GKP (D/C)	663	652	797	0	15.99	0.00	15.99
Patna-Balia(D/C)	451	356	493	0	9.00	0.00	9.00
B'Sharif-Balia (D/C)	313	314	335	0	6.98	0.00	6.98
Pusauli-Balia	21	23	48	0	0.63	0.00	0.63
Gaya-Fatehpur (765 Kv)	167	68	167	0	2.65	0.00	2.65
Pusauli-Sahupuri	112	130	143	0	2.76	0.00	2.76
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	1619	1435			38.01	2.51	35.50
Total IR Exch	3744	3420			88.12	17.18	70.95

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
28.24	3.73	31.97	-9.40	32.56	0.31	-4.74	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
25.77	59.84	85.61	35.50	35.44	70.95	9.73	-24.40	-14.67

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	0.00	0.80	91.08	3.30	91.00	67.80	8.20

<----- Frequency (Hz) ----->				Average Frequency	Frequency Variation	Std. Dev.	Frequency in 15 Min Block	
Maximum		Minimum					MAX	MIN
Freq	Time	Freq	Time	Hz	Index	(Hz)	(Hz)	
50.47	6.07	49.61	22.11	50.05	0.19	50.49	49.78	

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	412	10:19	400	20:43	0.0	0.0	0.0	0.0
Gorakhpur	400	427	17:10	408	22:12	0.0	0.0	50.4	0.0
Bareilly	400	424	6:05	397	19:31	0.0	0.0	3.2	0.0
Kanpur	400	421	3:05	399	19:31	0.0	0.0	0.6	0.0
Dadri	400	413	3:00	403	0:00	0.0	0.0	0.0	0.0
Ballabgarh	400	425	6:02	406	19:29	0.0	0.0	29.7	0.0
Bawana	400	418	6:05	402	22:11	0.0	0.0	0.0	0.0
Bassi	400	427	3:01	403	19:29	0.0	0.0	16.3	0.0
Hissar	400	409	17:01	393	19:25	0.0	0.0	0.0	0.0
Moga	400	408	17:02	394	10:41	0.0	0.0	0.0	0.0
Abdullapur	400	411	6:05	398	19:28	0.0	0.0	0.0	0.0
Nalagarh	400	407	2:58	397	14:52	0.0	0.0	0.0	0.0
Kishenpur	400	414	2:57	399	19:40	0.0	0.0	0.0	0.0
Wagoora	400	413	0:55	386	19:52	0.0	2.7	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	770	3:05	730	19:32	0.0	17.0	0.0	0.0
Balia	765	769	6:09	734	22:45	0.0	16.3	0.0	0.0
Moga	765	774	17:02	746	19:33	0.0	0.0	0.0	0.0
Agra	765	804	6:09	758	19:31	0.0	0.0	1.0	0.0
Bhiwani	765	791	17:02	760	19:31	0.0	0.0	0.0	0.0
Unnao	765	777	3:11	740	19:32	0.0	1.0	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	510.21	1560.04	496.43	960.37	1189.50	869.92
Pong	426.72	384.05	422.00	990.81	416.19	654.00	444.00	506.64
Tehri	829.79	740.04	819.95	1001.27	818.65	982.26	402.58	562.00
Koteshwar	612.50	598.50	609.60	4.38	NA	NA	562.00	559.00
Chamera-I	760.00	748.75	NA	NA	NA	NA	402.33	345.32
Rihand	268.22	252.98	259.66	386.30	261.88	411.80	NA	NA
RPS	352.80	343.81	352.44	NA	NA	NA	NA	361.27
Jawahar Sagar	298.70	295.78	297.67	NA	NA	NA	NA	224.89

RSD	527.91	487.91	524.14	145.00	509.18	144.00	391.25	437.41
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* NA: Not Available

X. System Constraints:

XI. Grid Disturbance / Any Other Significant Event:

XII. Weather Conditions For 28.08.2013 :

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 :

1. Dhauliganga (280 MW) closed down till 30.09.2013 due to flooding of power house.
2. Vishnuprayg(UPPCL) (400 MW) Closed due to High Silt level in river water.

Report for : 28.08.2013

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER