

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरसिस्टम की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 25.08.2013
Date of Reporting : 26.08.2013

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
39621	1965	41586	50.10	37481	2110	39591	50.14	885.3	58.19

* 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	42.92	21.02		63.94	121.86	122.67	0.81	186.61	0.00
Haryana	64.30	0.69		64.99	75.95	77.61	1.66	142.60	0.00
Rajasthan	73.59	6.48	7.03	87.09	60.96	59.84	-1.12	146.93	0.01
Delhi	19.01			19.01	76.23	74.13	-2.10	93.14	0.08
UP	98.09	5.00	1.00	104.09	123.03	125.10	2.07	229.18	55.44
Uttarakhand		20.72		20.72	12.68	11.72	-0.96	32.43	0.79
HP		22.67		22.67	-1.12	-0.61	0.50	22.05	0.17
J & K		13.61	0.00	13.61	15.85	13.69	-2.15	27.30	1.70
Chandigarh				0.00	5.30	5.06	-0.23	5.06	0.00
Total	297.92	90.17	8.03	396.11	490.73	489.21	-1.52	885.32	58.19

* 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	8245	0	152	1589	7693	0	-21	1887	43.28	
Haryana	6670	0	236	552	6107	0	91	236	7.23	
Rajasthan	6286	0	-586	405	6244	0	137	145	3.73	
Delhi	4354	5	174	304	3806	0	-355	-50	3.68	
UP	9700	1860	209	587	10446	2110	99	1905	20.36	
Uttarakhand	1530	0	-59	3	1375	0	1	-175	-2.44	
HP	1051	0	168	-1244	880	0	-28	-1266	-23.02	
J&K	1541	100	56	-257	736	0	-278	-537	-8.36	
Chandigarh	244	0	-16	0	195	0	-15	-30	-0.34	
Total	39621	1965	334	1939	37481	2110	-369	2113	44.12	

* 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	1940	2070	2072	46.70	1946	46.56	0.14
	Rihand I STPS	1000	920	954	995	21.49	896	21.72	-0.23
	Rihand II STPS	1000	470	501	503	10.93	456	11.08	-0.15
	Rihand III STPS	500	485	505	510	11.40	475	11.44	-0.04
	Dadri I STPS	840	600	574	844	12.33	514	12.43	-0.10
	Dadri II STPS	980	980	1011	1007	22.35	931	23.10	-0.75
	Unchahar I TPS	420	395	421	399	9.04	377	9.36	-0.33
	Unchahar II TPS	420	404	429	392	9.15	381	9.51	-0.36
	Unchahar III TPS	210	201	213	175	4.48	187	4.70	-0.22
	ISTPP (Jhajjar)	1500	1480	504	314	9.01	375	9.26	-0.25
	Dadri GPS	830	523	381	377	8.59	358	8.69	-0.10
	Anta GPS	419	401	366	329	8.13	339	8.17	-0.04
	Auraiya GPS	663	625	300	306	7.07	294	7.09	-0.03
	Sub Total (A)	10782	9423	8229	8223	180.68	7528	183.13	-2.45
	B. NPC	NAPS	440	288	326	327	6.94	289	6.91
RAPS- B		440	398	434	441	9.46	394	9.55	-0.10
RAPS- C		440	400	456	462	9.79	408	9.60	0.19
Sub Total (B)		1320	1086	1216	1230	26.19	1091	26.06	0.13
C. NHPC	Chamera I HPS	540	535	540	540	12.80	533	12.84	-0.04
	Chamera II HPS	300	300	305	300	7.11	296	7.20	-0.09
	Chamera III HPS	231	231	232	235	5.22	218	5.27	-0.05
	Bairasuil HPS	180	179	150	120	3.24	135	3.25	-0.01
	Salal-HPS	690	665	667	667	15.98	666	15.96	0.02
	Tanakpur-HPS	94	86	64	89	1.98	82	1.99	-0.02
	Uri-HPS	480	320	344	311	7.54	314	7.18	0.36
	Dhauliganga-HPS	280	0	0	0	0.00	0	0.00	0.00
	Dulhasti-HPS	390	361	408	402	8.71	363	8.53	0.18
	Sewa-II HPS	120	119	125	124	2.97	124	2.94	0.02
	Sub Total (C)	3305	2796	2835	2788	65.55	2731	65.17	0.38
D. NJPC	Nathpa Jhakri	1500	846	1609	1623	20.40	850	20.31	0.09
	Sub Total (D)	1500	846	1609	1623	20.40	850	20.31	0.09
E. THDC	Tehri HPS	1000	1060	1066	1068	25.47	1061	25.25	0.22
	Koteshwar HPS	400	380	380	343	8.42	351	8.40	0.02
	Sub Total (E)	1400	1440	1446	1411	33.89	1412	33.65	0.24
F. BBMB	Bhakra HPS	1480	1192	1255	1098	29.32	1222	28.60	0.72
	Dehar HPS	990	595	635	560	14.64	610	14.28	0.36
	Pong HPS	396	366	372	372	9.03	376	8.78	0.25
	Sub Total (F)	2866	2153	2262	2030	52.99	2208	51.67	1.32
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	229	150	4.14	172	3.48	0.65
	KWHEP HPS(IPP)	1000	0	1197	1197	28.46	1186	28.51	-0.05
	Malana Stg-II HPS	100	0	0	95	1.34	56	2.35	-1.00
	Shree Cement TPS	300	0	121	127	2.95	123	2.98	-0.04
	Budhil HPS(IPP)	70	0	70	70	1.48	62	1.66	-0.18
	Sub Total (G)	1662	0	1617	1639	38.36	1598	38.98	-0.62
H. Total Regional Entities (A-G)	22836	17744	19214	18944	418.06	17419	418.96	-0.90	

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	1220	920	24.08	1004
	Guru Nanak Dev TPS(Bhatinda)	440	105	105	2.20	92
	Guru Hargobind Singh TPS(L.mbt)	920	877	666	16.64	693
	Goindwal(GVK)		0	0	0.00	0
	Thermal (Total)	2620	2202	1691	42.92	1788
	Total Hydro	1148	876	876	21.02	876
Total Punjab	3768	3078	2567	63.94	2664	
Haryana	Panipat TPS	1367	447	453	10.44	435
	DCRTPP (Yamuna nagar)	600	0	0	0.00	0
	Faridabad GPS (NTPC)	432	323	292	7.43	309
	RGTPP (kheadar) (IPP)	1200	1074	1109	22.71	946
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	1320	960	985	23.74	989
	Thermal (Total)	4944	2804	2839	64.30	2679
	Total Hydro	62	28	26	0.69	29
	Total Haryana	5006	2832	2865	64.99	2708
	Rajasthan	kota TPS	1240	856	614	18.59
suratgarh TPS		1500	958	986	23.19	966
Chabra TPS		500	134	0	0.85	36
Dholpur GPS		330	114	119	2.76	115
Ramgarh GPS		111	61	143	2.36	98
RAPS A (NPC)		300	180	180	3.91	163
Barsingsar (NLC)		250	90	91	2.09	87
Giral LTPS		250	0	0	0.00	0
Rajwest LTPS (IPP)		1080	603	621	15.10	629
VSLP LTPS (IPP)		135	0	0	0.00	0
Kalisindh Thermal		600	0	0	0.00	0
Kawai(Adani)		660	431	0	4.75	198
Thermal (Total)		6956	3427	2754	73.59	3066
Total Hydro		550	230	265	6.48	270
Wind power		2191	350	363	5.93	247
Biomass		91	26	26	0.63	26
Solar		201	0	0	0.48	20
Renewable/Others (Total)		2483	376	389	7.03	293
Total Rajasthan		9989	4033	3408	87.09	3629
UP		Anpara TPS	1630	837	856	18.40
	Obra TPS	1288	287	279	6.10	254
	Paricha TPS	1140	920	736	17.50	729
	Panki TPS	210	70	80	1.30	54
	Harduaganj TPS	665	305	151	4.80	200
	Tanda TPS (NTPC)	440	386	389	9.59	400
	Roza TPS (IPP)	1200	738	725	17.52	730
	Anpara-C (IPP)	1200	744	798	18.98	791
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	203	54	3.90	163
	Thermal (Total)	8223	4490	4068	98.09	4087
	Vishnuparyag HPS (IPP)	400	0	0	0.00	0
	Other Hydro	527	211	209	5.00	208
	Cogeneration	981	40	40	1.00	42
	Total UP	10131	4741	4317	104.09	4337
Uttarakhand	Total Hydro	1303	947	917	20.72	863
	Total Uttarakhand	1303	947	917	20.72	863
Delhi	Rajghat TPS	135	46	45	0.98	41
	Delhi Gas Turbine	282	80	80	1.87	78
	Pragati Gas Turbine	330	264	292	6.57	274
	Riithala GPS	95	0	0	0.00	0
	Bawana GPS	686	0	0	0.00	0
	Badarpur TPS (NTPC)	705	430	475	9.59	400
	Thermal (Total)	2232	820	892	19.01	792
	Total Delhi	2232	820	892	19.01	792
HP	Baspa HPS (IPP)	330	331	331	7.84	327
	Malana HPS (IPP)	86	70	51	1.44	60
	Other Hydro	589	600	600	13.38	558
	Total HP	1005	1001	982	22.67	944
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	13.61	567
Total State Control Area Generation		34390	18020	16512	396.11	16505
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			3444	2976	77.68	3237
Total Regional Availability(Gross)		57226	40678	38432	891.85	37161

IV. Total Hydro Generation:

Regional Entities Hydro	10364	9578	9294	206.76	8615
State Control Area Hydro	5368	3861	3839	90.17	3757
Total Regional Hydro	15731	13439	13133	296.93	12372

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	100	500	100	3.46	0.61	2.86
Gwalior-Agra (D/C)	1086	994	1513	0	25.51	0.00	25.51
Zerda-Kankroli	-108	-145	33	288	0.00	3.47	-3.47
Zerda-Bhinmal	-85	-116	37	277	0.00	2.03	-2.03
Malanpur-Auraiya	-116	-60	0	118	0.00	1.79	-1.79
Badod-Kota/Morak	-24	34	95	118	0.00	0.88	-0.88
Mundra-Mohindergarh(HVDC)	1197	1098	1199	0	27.17	0.00	27.17
Sub Total WR	2250	1905			56.14	8.77	47.36
Pusauli Bypass	-151	-262	0	360	0.00	6.62	-6.62
MZP- GKP (D/C)	503	505	731	0	13.50	0.00	13.50
Patna-Balia(D/C)	338	426	564	0	9.16	0.00	9.16
B'Sharif-Balia (D/C)	201	219	293	0	4.92	0.00	4.92
Pusauli-Balia	13	-3	84	143	0.00	0.06	-0.06
Gaya-Fatehpur (765 Kv)	185	6	239	0	2.90	0.00	2.90
Pusauli-Sahupuri	140	55	141	0	2.79	0.00	2.79
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	163	324	0	4.54	0.00	4.54
Sub Total ER	1194	1071			37.80	7.48	30.32
Total IR Exch	3444	2976			93.94	16.25	77.68

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
36.26	3.72	39.97	-6.73	30.01	-5.42	-8.19	0.09	-0.06

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
27.90	59.29	87.19	30.32	47.36	77.68	2.42	-11.92	-9.51

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	0.10	87.50	1.50	87.40	66.80	12.50

<----- 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				
50.49	17.05	49.66	10.56	50.05	0.19	0.14	50.45	49.89

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	09:01	401	15:51	0.0	0.0	0.0	0.0
Gorakhpur	400	423	06:13	404	00:41	0.0	0.0	3.2	0.0
Barailly	400	418	18:05	399	00:30	0.0	0.0	0.0	0.0
Kanpur	400	417	06:08	400	19:36	0.0	0.0	0.0	0.0
Dadri	400	415	06:28	397	19:50	0.0	0.0	0.0	0.0
Ballabgarh	400	423	06:08	404	19:37	0.0	0.0	5.5	0.0
Bawana	400	418	06:09	399	19:47	0.0	0.0	0.0	0.0
Bassi	400	427	06:07	401	19:37	0.0	0.0	27.3	0.0
Hissar	400	408	06:09	390	19:31	0.0	0.0	0.0	0.0
Moga	400	411	06:09	394	19:26	0.0	0.0	0.0	0.0
Abdullapur	400	415	06:07	395	19:50	0.0	0.0	0.0	0.0
Nalagarh	400	413	06:04	397	19:24	0.0	0.0	0.0	0.0
Kishenpur	400	415	09:09	401	19:26	0.0	0.0	0.0	0.0
Wagoora	400	416	02:21	392	19:52	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	770	17:04	734	19:36	0.0	5.6	0.0	0.0
Balia	765	763	06:03	729	00:40	0.0	17.2	0.0	0.0
Moga	765	776	06:09	743	19:40	0.0	0.0	0.0	0.0
Agra	765	801	06:10	760	19:40	0.0	0.0	0.0	0.0
Bhiwani	765	794	06:16	757	19:51	0.0	0.0	0.0	0.0
Unnao	765	758	18:08	730	00:41	0.0	24.2	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	509.07	1500.16	492.61	817.99	1370.93	880.48
Pong	426.72	384.05	421.80	975.89	413.01	600.05	875.67	506.64
Tehri	829.79	740.04	819.40	998.00	818.65	982.26	478.00	559.00
Koteshwar	612.50	598.50	608.00	4.65	NA	NA	559.00	540.00
Chamera-I	760.00	748.75	NA	NA	NA	NA	402.33	348.68
Rihand	268.22	252.98	259.32	268.30	261.52	390.05	NA	NA
RPS	352.80	343.81	352.03	NA	NA	NA	NA	38.06
Jawahar Sagar	298.70	295.78	297.48	NA	NA	NA	NA	243.27
RSD	527.91	487.91	524.27	144.00	505.63	144.00	539.86	409.77

* NA: Not Available

X. System Constraints:

XI. Grid Disturbance / Any Other Significant Event:

XII. Weather Conditions For 25.08.2013 :

1. Scattered Rain

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 : 25.08.2013

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER