

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरसिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 14.08.2012

Date of Reporting : 15.08.2012

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
35279	2980	38259	50.01	32835	2246	35081	50.09	802.9	66.02

* 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	50.24	16.47		66.71	111.91	112.34	0.43	179.05	20.04
Haryana	53.41	0.67		54.08	72.76	71.75	-1.01	125.83	5.09
Rajasthan	64.22	2.57	9.50	76.29	43.20	35.95	-7.24	112.24	0.00
Delhi	25.33			25.33	67.42	63.54	-3.89	88.87	0.02
UP	85.03	14.83	1.20	101.06	111.98	107.49	-4.49	208.56	36.00
Uttarakhand		19.44		19.44	10.26	10.45	0.19	29.89	3.03
HP		24.98		24.98	1.42	-0.66	-2.08	24.31	0.08
J & K		15.27	0.00	15.27	19.53	13.32	-6.21	28.59	1.75
Chandigarh				0.00	6.19	5.54	-0.65	5.54	0.00
Total	278.23	94.23	10.70	383.16	444.66	419.72	-24.94	802.89	66.02

* 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 * (+ve) (-ve)	
	Demand Met	Shortage	UI	STOA/PX transaction	Demand Met	Shortage	UI	STOA/PX transaction	STOA/PX transaction	
Punjab	7973	620	39	2175	7312	1170	46	2079	53.44	
Haryana	5337	175	-62	971	5274	0	-199	956	22.63	
Rajasthan	4952	0	-932	192	4654	0	-286	-36	-0.87	
Delhi	3964	0	136	266	3222	0	-350	374	9.41	
UP	8914	1925	-30	805	9101	1026	-330	1376	23.44	
Uttarakhand	1302	160	54	-50	1351	0	77	-78	-0.45	
HP	979	0	-212	-1025	932	0	-79	-1100	-24.44	
J&K	1628	100	-58	-8	796	50	-552	-96	-2.68	
Chandigarh	230	0	-58	34	193	0	-26	0	0.72	
Total	35279	2980	-1122	3361	32835	2246	-1699	3477	81.19	

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

III. Regional Entities :

Station/ Constituent	Inst. Capacity (Effective) MW	Declared Capacity(MW)	Peak MW (Gross)	Off Peak MW (Gross)	Energy (Net MU)	Average Sentout(MW)	UI [OG:(+ve), UG: (-ve)]	
							Schedule Net MU	UI Net MU
A. NTPC								
Singrauli STPS	2000	1811	2001	1921	43.08	1795	42.87	0.21
Rihand I STPS	1000	328	372	352	7.72	322	7.63	0.09
Rihand II STPS	1000	695	974	698	16.32	680	16.07	0.25
Rihand III STPS	500		0	0	0.00	0		0.00
Dadri I STPS	840	767	747	603	15.66	652	16.19	-0.54
Dadri II STPS	980	920	934	727	19.35	806	19.99	-0.64
Unchahar I TPS	420	356	428	354	8.28	345	8.34	-0.06
Unchahar II TPS	420	357	439	327	8.18	341	8.20	-0.02
Unchahar III TPS	210	178	219	157	4.05	169	4.05	0.00
ISTPP (Jhajjar)	1000	420	325	321	7.28	304	7.38	-0.10
Dadri GPS	830	768	621	474	12.69	529	13.15	-0.46
Anta GPS	419	261	190	187	4.51	188	4.55	-0.04
Auraiya GPS	663	535	455	260	7.30	304	7.31	-0.02
Sub Total (A)	10282	7395	7705	6381	154.42	6434	155.74	-1.32
B. NPC								
NAPS	440	259	473	457	6.21	259	6.22	-0.01
RAPS- B	440	378	425	429	9.14	381	9.07	0.06
RAPS- C	440	410	294	300	9.62	401	9.84	-0.22
Sub Total (B)	1320	1047	1192	1186	24.96	1040	25.13	-0.17
C. NHPC								
Chamera I HPS	540	534	540	540	12.86	536	12.81	0.05
Chamera II HPS	300	300	303	301	7.19	300	7.23	-0.03
Chamera III HPS	231	231	234	231	5.53	230	5.15	0.38
Bairasuil HPS	180	182	160	120	2.44	102	2.38	0.06
Salal-HPS	690	649	665	661	15.81	659	15.58	0.23
Tanakpur-HPS	94	94	95	93	2.26	94	2.24	0.02
Uri-HPS	480	358	384	319	8.61	359	8.70	-0.09
Dhauliganga-HPS	280	277	283	280	6.71	279	6.72	-0.02
Dulhasi-HPS	390	387	406	401	9.06	377	9.02	0.04
Sewa-II HPS	120	80	37	0	0.86	36	0.89	-0.03
Sub Total (C)	3305	3091	3107	2946	71.33	2972	70.73	0.60
D.NJPC								
Nathpa Jhakri	1500	1605	1622	1622	38.66	1611	38.52	0.14
Sub Total (D)	1500	1605	1622	1622	38.66	1611	38.52	0.14
E. THDC								
Tehri HPS	1000	595	741	860	8.87	370	9.00	-0.13
Koteshwar HPS	400	300	160	160	2.65	110	2.70	-0.05
Sub Total (E)	1400	895	901	1020	11.52	480	11.70	-0.18
F. BBMB								
Bhakra HPS	1480	833	1255	784	20.35	848	19.99	0.36
Dehar HPS	990	614	825	610	14.85	619	14.74	0.12
Pong HPS	396	300	306	306	7.43	310	5.01	2.42
Sub Total (F)	2866	1747	2386	1700	42.63	1776	39.73	2.90
G. IPP(s)/JV(s)								
ADHPL HPS(IPP)	192	0	210	184	4.46	186	4.27	0.19
KWHEP HPS(IPP)	1000	0	1200	1200	28.63	1193	28.63	0.00
Malana Stg-II HPS	100	0	104	103	2.39	100	1.81	0.58
Shree Cement TPS	300	0	294	266	6.24	260	6.75	-0.52
Budhil HPS(IPP)	70	0	70	70	1.66	69		1.66
Sub Total (G)	1662	0	1878	1823	43.38	1808	41.46	1.92
H. Total Regional Entities (A-G)	22336	15779	18791	16678	386.91	16121	383.01	3.90

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	1240	1163	27.34	1139	
	Guru Nanak Dev TPS(Bhatinda)	440	199	108	2.39	100	
	Guru Hargobind Singh TPS(L.mbt)	920	916	922	20.52	855	
	Thermal (Total)	2620	2355	2193	50.24	2093	
	Total Hydro	1148	617	581	16.47	686	
	Total Punjab	3768	2972	2774	66.71	2780	
Haryana	Panipat TPS	1367	1105	1115	26.99	1125	
	DCRTPP (Yamuna nagar)	600	0	0	0.00	0	
	Faridabad GPS (NTPC)	432	305	350	8.68	362	
	RGTPP (kheadar) (IPP)	1200	697	835	17.74	739	
	Magnum Diesel (IPP)	25	0	0	0.00	0	
	Jhajjar(CLP)	1320	0	352	0.00	0	
	Thermal (Total)	4944	2107	2652	53.41	2225	
	Total Hydro	62	30	27	0.67	28	
	Total Haryana	5006	2137	2679	54.08	2253	
Rajasthan	kota TPS	1240	871	790	19.48	812	
	suratgarh TPS	1500	994	753	18.86	786	
	Chabra TPS	500	416	380	9.77	407	
	Dholpur GPS	330	144	146	3.33	139	
	Ramgarh GPS	111	54	27	1.02	42	
	RAPS A (NPC)	300	197	190	4.52	188	
	Barsingsar (NLC)	250	61	113	2.56	107	
	Giral LTPS	250	0	0	0.00	0	
	Rajwest LTPS (IPP)	540	260	113	4.67	195	
	VSLLP LTPS (IPP)	135	0	0	0.00	0	
	Thermal (Total)	5156	2997	2512	64.22	2676	
	Total Hydro	550	119	133	2.57	107	
	Wind power	1843	746	499	6.17	257	
	Biomass	91	31	31	0.75	31	
	Solar	128	0	0	0.02	1	
	Renewable/Others (Total)	2062	777	530	9.50	396	
	Total Rajasthan	7767	3893	3175	76.29	3179	
	UP	Anpara TPS	1630	1009	796	19.80	825
		Obra TPS	1382	452	462	11.10	463
Paricha TPS		890	548	500	11.90	496	
Panki TPS		210	153	52	2.60	108	
Harduaganj TPS		665	16	25	0.40	17	
Tanda TPS (NTPC)		440	192	194	4.80	200	
Roza TPS (IPP)		1200	815	815	19.60	817	
Anpara-C (IPP)		1200	485	413	11.06	461	
Bajaj Energy Pvt.Ltd(IPP) TPS		450	204	191	3.78	157	
Thermal (Total)		8067	3874	3448	85.03	3543	
Vishnuparyag HPS (IPP)		400	436	436	10.39	433	
Other Hydro		527	250	0	4.44	185	
Cogeneration		981	50	50	1.20	50	
Total UP		9975	4610	3934	101.06	3778	
Uttarakhand		Total Hydro	1303	825	807	19.44	810
	Total Uttarakhand	1303	825	807	19.44	810	
Delhi	Rajghat TPS	135	50	50	1.18	49	
	Delhi Gas Turbine	282	149	191	4.31	180	
	Pragati Gas Turbine	330	134	119	3.21	134	
	Rithala GPS	108	50	40	1.20	50	
	Bawana GPS	677	0	219	4.30	179	
	Badarpur TPS (NTPC)	705	410	560	11.12	463	
	Thermal (Total)	2237	793	1179	25.33	1055	
	Total Delhi	2237	793	1179	25.33	1055	
HP	Baspa HPS (IPP)	330	328	328	7.76	324	
	Malana HPS (IPP)	86	107	105	2.42	101	
	Other Hydro	589	628	613	14.79	616	
	Total HP	1005	1063	1046	25	1041	
J & K	Baglihar HPS (IPP)	450	442	434	10.54	439	
	Other Hydro	323	185	210	4.73	197	
	Gas/Diesel/Others	183	0	0	0.00	0	
	Total J & K	956	627	644	15.27	636	
Total State Control Area Generation		32017	16920	16238	383.16	15532	
J. Net Inter Regional Exchange (Import (+ve)/Export (-ve))			1948	2102	56.32	2347	
Total Regional Availability(Gross)		54353	37659	35018	826.39	34000	

IV. Total Hydro Generation:

Regional Entities Hydro	10364	9530	8775	199.63	8318
State Control Area Hydro	5368	3531	3238	94.23	3493
Total Regional Hydro	15731	13061	12013	293.86	11811

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	500	300	500	0	9.77	0.00	9.77
Gwalior-Agra (D/C)	315	442	839	0	12.99	0.00	12.99
Zerda-Kankroli	0	0	0	0	0.00	0.00	0.00
Zerda-Bhinmal	-291	-132	91	322	0.00	2.34	-2.34
Malanpur-Auraiya	-57	-64	0	168	0.00	1.19	-1.19
Badod-Kota/Morak	-105	-79	96	105	0.00	0.93	-0.93
Mundra-Mohinderghar(HVDC)	565	576	605	0	9.12	0.00	9.12
Sub Total WR	927	1043			31.88	4.46	27.42
Pusauli Bypass	-94	-160	0	201	0.07	2.47	-2.40
MZP- GKP (D/C)	546	537	674	0	13.56	0.00	13.56
Patna-Balia(D/C)	291	244	361	0	6.81	0.00	6.81
B'Sharif-Balia (D/C)	267	197	377	0	5.92	0.00	5.92
Barh - Balia(D/C)	0	0	0	0	0.00	0.00	0.00
Pusauli-Balia	25	-7	86	120	0.00	0.39	-0.39
Maya-Fatehpur (765 Kv)	-3	99	212	3	3.09	0.00	3.09
Pusauli-Sahupuri	35	174	174	0	3.35	0.00	3.35
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-46	-25	0	47	0.00	1.04	-1.04
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sub Total ER	1021	1059			32.80	3.90	28.90
Total IR Exch	1948	2102			64.68	8.36	56.32

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
22.03	3.79	25.82	5.78	21.77	10.82	3.00	2.48	-2.46
Total IR Schedule (MU)			Total IR Actual (MU)			Net IR UI (MU)		
Through ER	Through WR	Total	Through ER	Through WR	Total	Through ER	Through WR	Total
44.89	31.89	76.78	28.90	27.42	56.32	-15.99	-4.47	-20.46

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	0.30	3.30	93.60	90.60	39.90	6.10

<----- 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				
50.41	17.07	49.48	19.25	49.96	0.23	0.15	50.35	49.74

VII. Voltage profile

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	411	6:05	396	21:18	0.0	0.0	0.0	0.0
Gorakhpur	400	430	7:06	403	20:01	0.0	0.0	52.0	0.0
Bareilly	400	419	6:05	395	11:39	0.0	0.0	0.0	0.0
Kanpur	400	422	4:07	403	12:07	0.0	0.0	3.0	0.0
Dadri	400	415	4:06	397	18:28	0.0	0.0	0.0	0.0
Ballabgarh	400	421	4:04	401	12:07	0.0	0.0	2.1	0.0
Bawana	400	417	4:06	399	19:31	0.0	0.0	0.0	0.0
Bassi	400	433	4:07	409	12:06	0.0	0.0	65.4	2.1
Hissar	400	410	4:07	392	19:38	0.0	0.0	0.0	0.0
Moga	400	410	4:03	390	19:38	0.0	0.0	0.0	0.0
Abdullapur	400	412	4:07	397	19:27	0.0	0.0	0.0	0.0
Nalagarh	400	412	4:01	395	15:10	0.0	0.0	0.0	0.0
Kishenpur	400	411	1:34	392	19:31	0.0	0.0	0.0	0.0
Wagoora	400	415	1:35	378	19:38	0.9	11.4	0.0	0.0

VIII. 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	474.64	345.61	493.18	838.00	867.06	663.01
Pong	426.72	384.05	392.32	84.61	412.73	588.94	159.79	482.86
Tehri	829.79	740.04	765.20	165.00	818.65	982.26	345.35	151.00
Koteswar	612.50	598.50	599.80	0.45	NA	NA	159.00	133.00
Chamera-I	760.00	748.75	750.48	10.00	NA	NA	261.42	270.22
Rihand	268.22	252.98	254.02	38.60	257.04	160.70	NA	NA
RPS	352.80	343.81	349.95	NA	NA	NA	NA	NA
Jawahar Sagar	298.70	295.78	298.21	NA	NA	NA	NA	NA
RSD	527.91	487.91	501.72	NA	509.17	NA	319.44	309.93

* NA: Not Available

IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

XI. Weather Conditions For 14.08.2012 :

1: Scattered Rain in NR.

XII. Synchronisation of new generating units :

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

XIV. Tripping of lines in pooling stations :

XV. Complete generation loss in a generating station :

Report for : 14.08.2012

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER