

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरसिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 13.08.2012

Date of Reporting : 14.08.2012

I. Regional Availability/Demand:

Demand Met	Evening Peak (20:00 Hrs) MW			Off Peak (03:00 Hrs) MW				Day Energy (Net MU)	
	Shortage	Requirement	Freq* (Hz)	Demand Met	Shortage	Requirement	Freq* (Hz)	Demand Met	Shortage
34682	2355	37037	49.80	33183	2326	35509	50.13	801.5	66.12

* 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	48.61	15.42		64.03	111.88	113.16	1.28	177.18	17.45
Haryana	59.02	0.71		59.73	72.04	70.00	-2.04	129.72	0.64
Rajasthan	65.58	2.23	7.67	75.48	49.13	42.50	-6.63	117.98	0.00
Delhi	27.03			27.03	68.70	63.02	-5.67	90.06	0.03
UP	77.17	11.24	1.20	89.61	107.98	106.22	-1.76	195.83	44.44
Uttarakhand		18.95		18.95	11.94	12.16	0.22	31.11	1.53
HP		25.23		25.23	-0.07	-1.51	-1.45	23.71	0.33
J & K		15.23	0.00	15.23	17.19	15.22	-1.97	30.45	1.70
Chandigarh				0.00	6.29	5.47	-0.82	5.47	0.00
Total	277.41	89.01	8.87	375.29	445.08	426.23	-18.85	801.52	66.12

* 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 * (Net MU)	
	Demand Met	Shortage	UI	STOA/PX transaction	Demand Met	Shortage	UI	STOA/PX transaction	STOA/PX transaction	
Punjab	7715	921	47	2012	7317	1170	62	2346	53.97	
Haryana	5507	0	-23	897	5423	0	-199	864	20.96	
Rajasthan	5031	0	-534	378	4731	0	-34	-20	3.63	
Delhi	3989	0	258	466	3502	0	-287	147	7.70	
UP	8086	1254	112	511	8831	1156	-177	1867	24.54	
Uttarakhand	1527	80	116	-50	1243	0	-36	-78	0.51	
HP	1036	0	-12	-1106	856	0	-138	-1101	-25.34	
J&K	1538	100	15	-167	1091	0	-158	-208	-5.24	
Chandigarh	253	0	-19	-7	189	0	-48	0	0.60	
Total	34682	2355	-41	2933	33183	2326	-1015	3817	81.32	

* 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	2016	1911	43.75	1823	43.46	0.29
Rihand I STPS	1000	335	351	358	7.96	332	8.04	-0.08
Rihand II STPS	1000	692	897	727	16.71	696	16.60	0.11
Rihand III STPS	500		0	0	0.00	0		0.00
Dadri I STPS	840	621	645	600	14.10	588	14.40	-0.30
Dadri II STPS	980	763	770	694	17.76	740	17.85	-0.09
Unchahar I TPS	420	356	434	367	8.43	351	8.49	-0.06
Unchahar II TPS	420	357	437	359	8.40	350	8.48	-0.08
Unchahar III TPS	210	178	220	180	4.20	175	4.23	-0.03
ISTPP (Jhajjar)	1000	400	343	335	6.86	286	7.15	-0.29
Dadri GPS	830	754	555	410	12.29	512	12.49	-0.20
Anta GPS	419	231	171	163	3.74	156	3.80	-0.06
Auraiya GPS	663	501	266	240	5.91	246	5.85	0.05
Sub Total (A)	10282	6998	7105	6344	150.10	6254	150.84	-0.74
B. NPC								
NAPS	440	259	296	300	6.22	259	6.22	0.00
RAPS- B	440	390	424	425	9.13	380	9.36	-0.23
RAPS- C	440	420	461	450	9.82	409	10.08	-0.26
Sub Total (B)	1320	1069	1181	1175	25.16	1048	25.66	-0.49
C. NHPC								
Chamera I HPS	540	534	540	540	12.86	536	12.81	0.04
Chamera II HPS	300	300	303	299	6.68	278	7.25	-0.57
Chamera III HPS	231	231	238	235	5.46	228	5.40	0.06
Bairasuil HPS	180	182	122	120	2.32	97	2.35	-0.03
Salal-HPS	690	659	661	660	15.79	658	15.81	-0.02
Tanakpur-HPS	94	94	94	87	2.25	94	2.24	0.01
Uri-HPS	480	367	401	383	8.71	363	8.80	-0.09
Dhauliganga-HPS	280	277	278	278	6.66	277	6.69	-0.04
Dulhasi-HPS	390	387	405	354	9.00	375	8.98	0.03
Sewa-II HPS	120	80	39	0	0.57	24	0.58	-0.01
Sub Total (C)	3305	3109	3081	2956	70.29	2929	70.92	-0.63
D. NJPC								
Nathpa Jhakri	1500	1605	1622	1624	38.61	1609	38.52	0.09
Sub Total (D)	1500	1605	1622	1624	38.61	1609	38.52	0.09
E. THDC								
Tehri HPS	1000	595	753	645	8.93	372	9.00	-0.07
Koteshwar HPS	400	300	155	155	2.49	104	2.50	-0.01
Sub Total (E)	1400	895	908	800	11.42	476	11.50	-0.08
F. BBMB								
Bhakra HPS	1480	837	1254	676	20.43	851	20.09	0.34
Dehar HPS	990	614	825	640	14.93	622	14.74	0.20
Pong HPS	396	272	306	246	6.74	281	5.01	1.73
Sub Total (F)	2866	1723	2385	1562	42.10	1754	39.83	2.27
G. IPP(s)/JV(s)								
ADHPL HPS(IPP)	192	0	211	184	4.46	186	4.27	0.19
KWHPEP HPS(IPP)	1000	0	1200	1200	28.63	1193	28.56	0.07
Malana Stg-II HPS	100	0	104	103	2.39	100	2.21	0.18
Shree Cement TPS	300	0	295	256	6.59	275	6.68	-0.09
Budhil HPS(IPP)	70	0	70	70	1.66	69		1.66
Sub Total (G)	1662	0	1880	1813	43.73	1822	41.72	2.01
H. Total Regional Entities (A-G)	22336	15399	18162	16274	381.41	15892	378.98	2.43

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	1248	1060	26.61	1109	
	Guru Nanak Dev TPS(Bhatinda)	440	90	210	2.76	115	
	Guru Hargobind Singh TPS(L.mbt)	920	913	786	19.25	802	
	Thermal (Total)	2620	2251	2056	48.61	2025	
	Total Hydro	1148	757	542	15.42	642	
	Total Punjab	3768	3008	2598	64.03	2668	
Haryana	Panipat TPS	1367	1112	1135	27.00	1125	
	DCRTPP (Yamuna nagar)	600	0	0	0.00	0	
	Faridabad GPS (NTPC)	432	393	303	8.01	334	
	RGTPP (kheadar) (IPP)	1200	808	770	19.16	799	
	Magnum Diesel (IPP)	25	0	0	0.00	0	
	Jhajjar(CLP)	1320	0	352	4.85	202	
	Thermal (Total)	4944	2313	2560	59.02	2459	
	Total Hydro	62	29	24	0.71	30	
	Total Haryana	5006	2342	2584	59.73	2489	
	Rajasthan	kota TPS	1240	849	845	19.47	811
suratgarh TPS		1500	845	873	19.56	815	
Chabra TPS		500	403	414	9.73	405	
Dholpur GPS		330	146	146	3.32	138	
Ramgarh GPS		111	55	54	1.37	57	
RAPS A (NPC)		300	190	190	4.53	189	
Barsingsar (NLC)		250	112	0	2.48	103	
Giral LTPS		250	0	0	0.00	0	
Rajwest LTPS (IPP)		540	235	231	5.14	214	
VSLLP LTPS (IPP)		135	0	0	0.00	0	
Thermal (Total)		5156	2835	2753	65.58	2733	
Total Hydro		550	166	0	2.23	93	
Wind power		1843	336	76	4.83	201	
Biomass		91	21	21	0.51	21	
Solar		128	0	0	0.11	5	
Renewable/Others (Total)		2062	357	97	7.67	319	
Total Rajasthan		7767	3358	2850	75.48	3145	
UP		Anpara TPS	1630	824	980	18.60	775
		Obra TPS	1382	500	572	10.10	421
		Paricha TPS	890	609	279	7.90	329
	Panki TPS	210	100	125	2.40	100	
	Harduaganj TPS	665	28	20	0.50	21	
	Tanda TPS (NTPC)	440	191	163	4.71	196	
	Roza TPS (IPP)	1200	824	675	18.70	779	
	Anpara-C (IPP)	1200	424	338	9.05	377	
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	222	225	5.21	217	
	Thermal (Total)	8067	3722	3377	77.17	3215	
	Vishnuparyag HPS (IPP)	400	0	436	8.32	347	
	Other Hydro	527	156	0	2.92	122	
	Cogeneration	981	50	50	1.20	50	
	Total UP	9975	3928	3863	89.61	3387	
	Uttarakhand	Total Hydro	1303	811	832	18.95	790
Total Uttarakhand		1303	811	832	18.95	790	
Delhi	Rajghat TPS	135	49	48	1.14	48	
	Delhi Gas Turbine	282	192	134	3.94	164	
	Pragati Gas Turbine	330	138	134	3.33	139	
	Rithala GPS	108	22	0	0.36	15	
	Bawana GPS	677	220	220	5.67	236	
	Badarpur TPS (NTPC)	705	570	555	12.59	525	
	Thermal (Total)	2237	1191	1091	27.03	1126	
	Total Delhi	2237	1191	1091	27.03	1126	
HP	Baspa HPS (IPP)	330	330	330	7.92	330	
	Malana HPS (IPP)	86	106	107	2.47	103	
	Other Hydro	589	622	622	14.83	618	
	Total HP	1005	1058	1059	25	1051	
J & K	Baglihar HPS (IPP)	450	440	438	10.50	438	
	Other Hydro	323	185	210	4.73	197	
	Gas/Diesel/Others	183	0	0	0.00	0	
	Total J & K	956	625	648	15.23	635	
Total State Control Area Generation		32017	16321	15525	375.29	15290	
J. Net Inter Regional Exchange (Import (+ve)/Export (-ve))			3300	3005	72.37	3015	
Total Regional Availability(Gross)		54353	37783	34804	829.07	34198	

IV. Total Hydro Generation:

Regional Entities Hydro	10364	9511	8429	197.90	8246
State Control Area Hydro	5368	3602	3105	89.01	3362
Total Regional Hydro	15731	13113	11534	286.91	11608

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	250	500	0	9.09	0.00	9.09
Gwalior-Agra (D/C)	702	615	793	0	14.41	0.00	14.41
Zerda-Kankroli	0	0	0	0	0.00	0.00	0.00
Zerda-Bhinmal	37	77	136	397	0.00	0.47	-0.47
Malanpur-Auraiya	-34	-31	0	107	0.00	0.89	-0.89
Badod-Kota/Morak	19	30	75	76	0.32	0.00	0.32
Mundra-Mohindergarh(HVDC)	606	583	608	0	14.50	0.00	14.50
Sub Total WR	1630	1524			38.33	1.36	36.97
Pusauli Bypass	15	-44	114	120	0.33	0.72	-0.39
MZP- GKP (D/C)	680	582	702	0	15.07	0.00	15.07
Patna-Balia(D/C)	357	313	394	0	7.73	0.00	7.73
B'Sharif-Balia (D/C)	325	292	338	0	6.63	0.00	6.63
Barh - Balia(D/C)	0	0	0	0	0.00	0.00	0.00
Pusauli-Balia	23	34	48	8	0.46	0.00	0.46
Gayaa-Fatehpur (765 Kv)	182	184	289	0	4.27	0.00	4.27
Pusauli-Sahupuri	132	145	157	0	2.61	0.00	2.61
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-44	-25	0	48	0.00	0.97	-0.97
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sub Total ER	1670	1481			37.09	1.69	35.40
Total IR Exch	3300	3005			75.42	3.05	72.37

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
24.36	3.72	28.08	4.04	19.54	18.20	0.00	2.43	-2.41
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
52.74	29.17	81.91	35.40	36.97	72.37	-17.34	7.80	-9.54

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	0.40	7.00	94.40	87.80	40.30	5.20
Frequency (Hz)				Average Frequency	Frequency Variation Index	Std. Dev.	Frequency in 15 Min Block	
Maximum		Minimum		Hz	(Hz)	0.17	MAX	MIN
Freq	Time	Freq	Time				(Hz)	(Hz)
50.44	8.05	49.42	19.16	49.95	0.30	0.17	50.43	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	2:07	394	20:07	0.0	0.0	0.0	0.0
Gorakhpur	400	431	5:12	412	18:37	0.0	0.0	76.8	4.4
Bareilly	400	420	8:03	402	11:37	0.0	0.0	0.0	0.0
Kanpur	400	422	13:04	406	19:43	0.0	0.0	2.2	0.0
Dadri	400	415	8:07	399	22:21	0.0	0.0	0.0	0.0
Ballabgarh	400	420	4:04	403	14:29	0.0	0.0	0.0	0.0
Bawana	400	416	8:00	401	14:36	0.0	0.0	0.0	0.0
Bassi	400	432	4:00	408	19:46	0.0	0.0	53.6	1.1
Hissar	400	409	8:02	396	22:22	0.0	0.0	0.0	0.0
Moga	400	409	17:06	394	19:48	0.0	0.0	0.0	0.0
Abdullapur	400	410	8:02	281	9:43	0.0	0.0	0.0	0.0
Nalagarh	400	410	8:05	396	14:40	0.0	0.0	0.0	0.0
Kishenpur	400	411	8:04	396	19:45	0.0	0.0	0.0	0.0
Wagoora	400	412	2:08	388	19:33	0.0	6.4	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
Koteshwar	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 13.08.2012 :

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 : 13.08.2012

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER