

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरसिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 31.08.2012

Date of Reporting : 01.09.2012

I. Regional Availability/Demand:

Demand Met	Evening Peak (20:00 Hrs) MW			Demand Met	Off Peak (03:00 Hrs) MW			Day Energy (Net MU)	
	Shortage	Requirement	Freq* (Hz)		Shortage	Requirement	Freq* (Hz)	Demand Met	Shortage
35268	3352	38620	49.91	32063	1510	33573	50.18	794.4	40.96

* 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)	UI [OD:(+ve), UD: (-ve)]	
	Thermal	Hydro	Renewable/others \$	Total				Consumption (Net MU)	Shortages *
Punjab	50.75	13.74		64.49	103.25	103.69	0.45	168.18	1.80
Haryana	47.88	0.79		48.67	56.28	54.65	-1.64	103.32	2.50
Rajasthan	71.25	2.29	4.01	77.55	54.53	53.80	-0.73	131.35	0.00
Delhi	22.56			22.56	63.57	59.85	-3.72	82.41	0.10
UP	84.27	15.91	0.48	100.66	118.59	118.06	-0.53	218.72	34.51
Uttarakhand		21.33		21.33	12.89	11.16	-1.72	32.49	0.23
HP		24.12		24.12	1.51	0.15	-1.35	24.28	0.12
J & K		15.18	0.00	15.18	20.95	13.55	-7.40	28.73	1.70
Chandigarh				0.00	5.59	4.95	-0.64	4.95	0.00
Total	276.70	93.37	4.49	374.56	437.15	419.86	-17.29	794.42	40.96

* 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	7524	450	40	1563	6906	0	34	2178	45.90	
Haryana	4795	676	-64	829	4266	0	-90	814	19.52	
Rajasthan	5921	0	139	524	4896	0	92	129	6.69	
Delhi	3786	76	-21	309	2794	0	-221	387	7.53	
UP	8864	1970	-207	737	10176	1510	7	927	19.22	
Uttarakhand	1460	80	-4	14	1260	0	-96	-10	-0.03	
HP	1097	0	-27	-1044	868	0	-96	-982	-23.84	
J&K	1594	100	-64	38	734	0	-631	39	0.66	
Chandigarh	227	0	-12	-17	163	0	-22	-48	0.14	
Total	35268	3352	-219	2954	32063	1510	-1024	3435	75.79	

* 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	1897	2071	2009	45.71	1904	45.34	0.36
Rihand I STPS	1000	440	467	461	10.20	425	10.04	0.16
Rihand II STPS	1000	460	518	503	11.09	462	10.75	0.34
Rihand III STPS	500	0	0	0	0.00	0		0.00
Dadri I STPS	840	577	625	564	12.27	511	12.82	-0.55
Dadri II STPS	980	922	500	486	10.94	456	11.04	-0.10
Unchahar I TPS	420	198	220	218	4.50	188	4.52	-0.02
Unchahar II TPS	420	398	426	434	8.77	366	8.63	0.14
Unchahar III TPS	210	200	218	216	4.54	189	4.53	0.00
ISTPP (Jhajhar)	1000	940	362	478	7.88	328	8.21	-0.33
Dadri GPS	830	539	378	398	8.65	360	9.02	-0.37
Anta GPS	419	392	354	261	6.25	260	6.46	-0.22
Auraiya GPS	663	618	209	310	7.04	293	7.51	-0.47
Sub Total (A)	10282	7581	6348	6338	137.83	5743	138.88	-1.05
B. NPC								
NAPS	440	260	295	303	6.23	260	6.24	-0.01
RAPS- B	440	381	421	421	9.08	378	9.14	-0.07
RAPS- C	440	410	442	450	9.59	399	9.84	-0.25
Sub Total (B)	1320	1051	1158	1174	24.90	1037	25.22	-0.33
C. NHPC								
Chamera I HPS	540	534	540	540	12.83	535	12.82	0.01
Chamera II HPS	300	300	302	300	7.15	298	7.19	-0.04
Chamera III HPS	231	231	231	232	5.55	231	5.55	0.00
Bairasuil HPS	180	182	180	140	2.79	116	2.91	-0.12
Salai-HPS	690	654	655	653	15.58	649	15.68	-0.11
Tanakpur-HPS	94	94	95	95	2.26	94	2.25	0.01
Uri-HPS	480	361	400	311	8.56	356	8.51	0.04
Dhauliganga-HPS	280	210	208	208	5.03	209	4.87	0.15
Dihasti-HPS	390	387	405	378	9.21	384	9.20	0.02
Sewa-II HPS	120	80	85	80	1.91	79	1.91	-0.01
Sub Total (C)	3305	3032	3101	2937	70.85	2952	70.90	-0.05
D.NJPC								
Natpna Jhakri	1500	1605	1571	1521	36.23	1510	36.00	0.23
Sub Total (D)	1500	1605	1571	1521	36.23	1510	36.00	0.23
E. THDC								
Tehri HPS	1000	1050	1054	1052	24.92	1038	25.00	-0.08
Koteshwar HPS	400	385	386	392	8.13	339	8.20	-0.07
Sub Total (E)	1400	1435	1440	1444	33.04	1377	33.20	-0.16
F. BBMB								
Bhakra HPS	1480	670	1259	574	16.30	679	16.07	0.23
Dehar HPS	990	610	829	620	15.20	633	14.63	0.57
Pong HPS	396	240	315	120	6.00	250	5.01	0.99
Sub Total (F)	2866	1519	2403	1314	37.50	1563	35.71	1.79
G. IPP(s)/JV(s)								
ADHPL HPS(IPP)	192	0	223	156	3.72	155	3.69	0.03
KWHEP HPS(IPP)	1000	0	1000	1000	23.91	996	23.05	0.86
Malana Stg-II HPS	100	0	109	107	2.45	102	2.01	0.44
Shree Cement TPS	300	0	0	0	0.00	0	0.00	0.00
Budhil HPS(IPP)	70	0	70	70	1.66	69		1.66
Sub Total (G)	1662	0	1402	1333	31.73	1322	28.74	2.99
H. Total Regional Entities (A-G)	22336	16223	17423	16061	372.07	15503	368.65	3.43

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	1237	950	26.16	1090	
	Guru Nanak Dev TPS(Bhatinda)	440	204	180	4.14	172	
	Guru Hargobind Singh TPS(L.mbt)	920	950	941	20.45	852	
	Thermal (Total)	2620	2391	2071	50.75	2114	
	Total Hydro	1148	758	496	13.74	573	
	Total Punjab	3768	3149	2567	64.49	2687	
Haryana	Panipat TPS	1367	502	435	11.13	464	
	DCRTPP (Yamuna nagar)	600	0	0	0.00	0	
	Faridabad GPS (NTPC)	432	187	197	4.18	174	
	RGTPP (kheadar) (IPP)	1200	1037	881	24.29	1012	
	Magnum Diesel (IPP)	25	0	0	0.00	0	
	Jhajjar(CLP)	1320	481	453	8.28	345	
	Thermal (Total)	4944	2207	1966	47.88	1995	
	Total Hydro	62	28	21	0.79	33	
	Total Haryana	5006	2235	1987	48.67	2028	
Rajasthan	kota TPS	1240	839	798	19.61	817	
	suratgarh TPS	1500	853	881	19.82	826	
	Chabra TPS	500	425	442	10.20	425	
	Dholpur GPS	330	208	144	3.60	150	
	Ramgarh GPS	111	52	57	1.11	46	
	RAPS A (NPC)	300	170	0	1.45	60	
	Barsingsar (NLC)	250	0	0	0.00	0	
	Giral LTPS	250	26	35	7.00	292	
	Rajwest LTPS (IPP)	540	351	351	8.46	352	
	VSLP LTPS (IPP)	135	0	0	0.00	0	
	Thermal (Total)	5156	2924	2708	71.25	2969	
	Total Hydro	550	123	49	2.29	95	
	Wind power	1843	109	1	0.98	41	
	Biomass	91	25	25	0.59	25	
	Solar	128	0	0	0.15	6	
	Renewable/Others (Total)	2062	134	26	4.01	167	
		Total Rajasthan	7767	3181	2783	77.55	3231
	UP	Anpara TPS	1630	967	860	21.70	904
Obra TPS		1382	398	401	11.00	458	
Paricha TPS		890	412	373	9.30	388	
Panki TPS		210	140	113	2.80	117	
Harduaganj TPS		665	32	34	0.70	29	
Tanda TPS (NTPC)		440	189	189	4.58	191	
Roza TPS (IPP)		1200	824	741	18.22	759	
Anpara-C (IPP)		1200	482	461	11.21	467	
Bajaj Energy Pvt.Ltd(IPP) TPS		450	207	203	4.76	198	
Thermal (Total)		8067	3651	3375	84.27	3511	
Vishnuparyag HPS (IPP)		400	436	436	10.44	435	
Other Hydro		527	283	0	5.47	228	
Cogeneration		981	20	20	0.48	20	
		Total UP	9975	4390	3831	100.66	3759
Uttarakhand		Total Hydro	1303	897	869	21.33	889
	Total Uttarakhand	1303	897	869	21.33	889	
Delhi	Raighat TPS	135	50	39	1.09	45	
	Delhi Gas Turbine	282	179	148	4.07	170	
	Pragati Gas Turbine	330	288	267	6.60	275	
	Rithala GPS	108	20	20	0.62	26	
	Bawana GPS	677	0	0	0.00	0	
	Badarpur TPS (NTPC)	705	465	465	10.17	424	
	Thermal (Total)	2237	1002	939	22.56	940	
	Total Delhi	2237	1002	939	22.56	940	
HP	Baspa HPS (IPP)	330	326	296	7.72	322	
	Malana HPS (IPP)	86	108	76	2.26	94	
	Other Hydro	589	611	570	14.14	589	
		Total HP	1005	1045	942	24	1005
J & K	Baglihar HPS (IPP)	450	438	434	10.45	435	
	Other Hydro	323	185	210	4.73	197	
	Gas/Diesel/Others	183	0	0	0.00	0	
		Total J & K	956	623	644	15.18	632
Total State Control Area Generation		32017	16522	14562	374.56	15171	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			3322	3004	74.25	3094	
Total Regional Availability(Gross)		54353	37267	33627	820.88	33768	

IV. Total Hydro Generation:

Regional Entities Hydro	10364	9847	8479	207.69	8654
State Control Area Hydro	5368	3757	3021	93.37	3455
Total Regional Hydro	15731	13604	11500	301.06	12109

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	Import	Export	
Vindhychal B/B	100	-50	100	150	1.24	0.98			0.26
Gwalior-Agra (D/C)	514	466	851	0	14.65	0.00			14.65
Zerda-Kankroli	0	-44	41	70	0.00	0.16			-0.16
Zerda-Bhinmal	27	17	163	166	0.66	0.00			0.66
Malanpur-Auraiya	-59	-56	0	95	0.00	0.84			-0.84
Badod-Kota/Morak	76	40	138	3	1.51	0.00			1.51
Mundra-Mohindergarh(HVDC)	534	580	582	0	13.82	0.00			13.82
Sub Total WR	1192	953			31.88	1.98			29.90
Pusauli Bypass	200	200	200	0	4.83	0.00			4.83
MZP- GKP (D/C)	822	694	872	0	16.23	0.00			16.23
Patna-Balia(D/C)	441	571	607	0	9.94	0.00			9.94
B'Sharif-Balia (D/C)	360	319	384	0	7.21	0.00			7.21
Barh - Balia(D/C)	0	0	0	0	0.00	0.00			0.00
Pusauli-Balia	6	37	0	56	0.86	0.00			0.86
Gaya-Fatehpur (765 Kv)	201	76	201	0	2.23	0.00			2.23
Pusauli-Sahupuri	148	179	181	0	3.82	0.00			3.82
K'nasa-Sahupuri	0	0	0	0	0.00	0.00			0.00
Son Ngr-Rihand	-48	-25	0	48	0.00	0.78			-0.78
Garhwa-Rihand	0	0	0	0	0.00	0.00			0.00
Sub Total ER	2130	2051			45.12	0.78			44.34
Total IR Exch	3322	3004			77.00	2.76			74.25

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
30.71	3.71	34.43	16.26	31.55	-2.57	2.73	2.25	-2.21
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
50.37	32.16	82.52	44.34	29.90	74.25	-6.02	-2.25	-8.28

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	2.10	22.20	96.40	76.30	14.80	1.50
Frequency (Hz)				Average Frequency	Frequency Variation Index	Std. Dev.	Frequency in 15 Min Block	
Maximum		Minimum		Hz			MAX	MIN
Freq	Time	Freq	Time				(Hz)	(Hz)
50.26	8.07	49.30	19.56	49.82	0.58	0.17	50.33	49.70

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	419	11:40	410	22:22	0.0	0.0	0.0	0.0
Gorakhpur	400	431	8:26	411	0:16	0.0	0.0	51.5	0.3
Bareilly	400	422	8:06	404	19:11	0.0	0.0	0.4	0.0
Kanpur	400	423	8:04	408	21:05	0.0	0.0	3.0	0.0
Dadri	400	419	3:53	403	14:27	0.0	0.0	0.0	0.0
Ballabhgarh	400	424	3:46	405	14:27	0.0	0.0	13.5	0.0
Bawana	400	421	4:06	405	14:25	0.0	0.0	0.1	0.0
Bassi	400	434	3:51	405	19:55	0.0	0.0	62.8	6.7
Hissar	400	415	3:35	400	14:27	0.0	0.0	0.0	0.0
Moga	400	419	3:35	398	19:54	0.0	0.0	0.0	0.0
Abdullapur	400	416	3:06	286	20:04	0.2	0.2	0.0	0.0
Nalagarh	400	417	3:06	403	14:19	0.0	0.0	0.0	0.0
Kishenpur	400	415	3:53	397	19:55	0.0	0.0	0.0	0.0
Wagoora	400	415	3:08	386	19:54	0.0	2.7	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 (m³/s)	Usage (m³/s)
Bhakra	513.59	445.62	497.85	1006.54	510.48	1575.00	1113.45	451.68
Pong	426.72	384.05	417.54	781.19	421.86	975.89	898.58	362.91
Tehri	829.79	740.04	820.20	1008.00	818.65	982.26	458.29	551.00
Koteswar	612.50	598.50	NA	NA	NA	NA	NA	NA
Chamera-I	760.00	748.75	NA	NA	NA	NA	440.66	348.30
Rihand	268.22	252.98	261.79	411.80	263.65	522.00	NA	NA
RPS	352.80	343.81	351.74	NA	NA	NA	NA	NA
Jawahar Sagar	298.70	295.78	297.61	NA	NA	NA	NA	NA
RSD	527.91	487.91	510.48	NA	521.65	NA	592.64	102.05

* NA: Not Available

IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

XI. Weather Conditions For 31.08.2012 :

1: Partial rains in NR.

XII. Synchronisation of new generating units :

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

1. 400 KV Gurgaon - Maneshwar - I & II first time Chaged at 20.17 Hrs & 20.42 Hrs / 31.08.2012.

2. 80 MVAR Bus reactor at Seker first time chaged at 23.27 hrs / 31.08.2012.

3. Maneshwar - I & II bay at 400KV S/S at Gurgaon first chaged at 15.58 & 18.02 Hrs / 31.08.2012.

XIV. Tripping of lines in pooling stations :

XV. Complete generation loss in a generating station :

Report for : 31.08.2012

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER