

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरसिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 29.08.2012

Date of Reporting : 30.08.2012

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
33023	4441	37464	49.85	30731	1436	32167	50.15	763.8	46.65

* 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	38.74	11.44		50.17	103.15	103.54	0.39	153.71	1.80
Haryana	41.59	0.80		42.39	61.45	58.84	-2.61	101.23	4.48
Rajasthan	58.31	2.52	4.76	65.59	52.10	54.94	2.85	120.54	2.05
Delhi	20.55			20.55	68.30	60.31	-7.99	80.85	0.26
UP	87.15	15.83	0.48	103.46	114.86	115.10	0.43	218.56	34.80
Uttarakhand		16.32		16.32	14.19	13.89	-0.30	30.22	1.53
HP		25.04		25.04	2.34	-0.66	-3.00	24.37	0.03
J & K		15.22	0.00	15.22	21.00	13.99	-7.01	29.21	1.70
Chandigarh				0.00	5.77	5.08	-0.68	5.08	0.00
Total	246.33	87.17	5.24	338.74	442.95	425.03	-17.92	763.77	46.65

* 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	6875	450	129	1723	5991	0	-68	2222	49.39	
Haryana	4295	1084	-98	894	4112	0	-191	883	21.37	
Rajasthan	5439	595	22	268	4709	0	27	65	2.22	
Delhi	3871	192	89	239	2831	0	-677	336	8.51	
UP	8482	1860	-50	609	9951	1436	374	1006	19.12	
Uttarakhand	1235	160	-36	19	1233	0	-75	-1	0.14	
HP	1099	0	-120	-904	856	0	-212	-1006	-22.02	
J&K	1482	100	-84	-210	887	0	-548	44	-0.64	
Chandigarh	246	0	-14	10	161	0	-30	-4	0.83	
Total	33023	4441	-162	2646	30731	1436	-1400	3545	78.91	

* 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)	Schedule Net MU	UI [OG:(+ve), UG: (-ve)]	
								UI Net MU	UI Net MU
A. NTPC									
Singrauli STPS	2000	1729	2061	1530	40.08	1670	39.57	0.51	
Rihand I STPS	1000	447	499	404	9.79	408	9.44	0.35	
Rihand II STPS	1000	950	948	940	20.55	856	19.77	0.78	
Rihand III STPS	500		0	0	0.00	0		0.00	
Dadri I STPS	840	520	625	460	10.78	449	10.98	-0.20	
Dadri II STPS	980	800	506	675	12.08	504	12.32	-0.23	
Unchahar I TPS	420	198	202	155	4.62	193	4.06	0.56	
Unchahar II TPS	420	400	429	317	8.59	358	7.53	1.07	
Unchahar III TPS	210	200	208	154	4.31	180	3.82	0.50	
ISTPP (Jhajihar)	1000	470	500	434	10.52	439	10.70	-0.17	
Dadri GPS	830	543	288	319	7.39	308	7.47	-0.08	
Anta GPS	419	392	257	259	5.63	234	5.65	-0.03	
Auraiya GPS	663	617	305	310	6.96	290	7.20	-0.25	
Sub Total (A)	10282	7266	6828	5957	141.30	5887	138.50	2.80	
B. NPC									
NAPS	440	263	288	298	6.25	260	6.31	-0.07	
RAPS- B	440	381	421	423	9.06	377	9.14	-0.09	
RAPS- C	440	410	449	453	9.59	400	9.84	-0.25	
Sub Total (B)	1320	1054	1158	1174	24.90	1037	25.30	-0.40	
C. NHPC									
Chamera I HPS	540	534	540	540	12.83	535	12.82	0.01	
Chamera II HPS	300	300	299	302	7.16	298	7.15	0.01	
Chamera III HPS	231	155	160	158	3.71	155	3.71	0.00	
Bairasuil HPS	180	182	180	180	3.79	158	3.99	-0.20	
Salai-HPS	690	657	660	653	16.77	699	15.77	1.00	
Tanakpur-HPS	94	94	96	95	2.28	95	2.25	0.04	
Uri-HPS	480	366	360	305	8.71	363	8.40	0.31	
Dhauliganga-HPS	280	210	211	211	5.01	209	5.04	-0.03	
Dulhasti-HPS	390	387	409	397	9.28	387	9.12	0.16	
Sewa-II HPS	120	80	85	79	1.92	80	1.89	0.03	
Sub Total (C)	3305	2964	3000	2920	71.45	2977	70.12	1.33	
D.NJPC									
Natpna Jhakri	1500	1605	1515	1516	36.20	1508	36.00	0.20	
Sub Total (D)	1500	1605	1515	1516	36.20	1508	36.00	0.20	
E. THDC									
Tehri HPS	1000	1050	1054	1057	25.05	1044	25.00	0.05	
Koteswar HPS	400	385	392	385	9.23	385	9.24	-0.01	
Sub Total (E)	1400	1435	1446	1442	34.28	1428	34.24	0.04	
F. BBMB									
Bhakra HPS	1480	709	1259	572	16.91	705	17.01	-0.10	
Dehar HPS	990	606	825	635	15.24	635	14.56	0.69	
Pong HPS	396	269	366	246	7.50	313	5.01	2.49	
Sub Total (F)	2866	1584	2450	1453	39.65	1652	36.57	3.08	
G. IPP(s)/JV(s)									
ADHPL HPS(IPP)	192	0	222	176	4.20	175	4.08	0.12	
KWHEP HPS(IPP)	1000	0	1000	900	22.56	940	23.45	-0.89	
Malana Stg-II HPS	100	0	106	105	1.21	50	2.26	-1.05	
Shree Cement TPS	300	0	139	117	2.91	121	2.76	0.14	
Budhil HPS(IPP)	70	0	70	70	1.66	69		1.66	
Sub Total (G)	1662	0	1537	1368	32.53	1356	32.55	-0.02	
H. Total Regional Entities (A-G)	22336	15908	17934	15830	380.30	15846	373.28	7.02	

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	846	720	17.53	731	
	Guru Nanak Dev TPS(Bhatinda)	440	98	85	1.95	81	
	Guru Hargobind Singh TPS(L.mbt)	920	954	740	19.25	802	
	Thermal (Total)	2620	1898	1545	38.74	1614	
	Total Hydro	1148	646	330	11.44	476	
	Total Punjab	3768	2544	1875	50.17	2091	
Haryana	Panipat TPS	1367	426	391	9.68	404	
	DCRTPP (Yamuna nagar)	600	0	0	0.00	0	
	Faridabad GPS (NTPC)	432	192	128	3.24	135	
	RGTPP (kheldar) (IPP)	1200	918	879	21.15	881	
	Magnum Diesel (IPP)	25	0	0	0.00	0	
	Jhajjar(CLP)	1320	0	413	7.52	313	
	Thermal (Total)	4944	1536	1811	41.59	1733	
	Total Hydro	62	21	21	0.80	33	
	Total Haryana	5006	1557	1832	42.39	1766	
Rajasthan	kota TPS	1240	668	670	15.32	638	
	suratgarh TPS	1500	881	885	20.05	836	
	Chabra TPS	500	430	444	9.49	396	
	Dholpur GPS	330	209	141	3.71	155	
	Ramgarh GPS	111	56	41	1.27	53	
	RAPS A (NPC)	300	0	0	0.00	0	
	Barsingar (NLC)	250	0	0	0.00	0	
	Giral LTPS	250	0	0	0.00	0	
	Rajwest LTPS (IPP)	540	351	351	8.47	353	
	VSLP LTPS (IPP)	135	0	0	0.00	0	
	Thermal (Total)	5156	2595	2532	58.31	2430	
	Total Hydro	550	157	49	2.52	105	
	Wind power	1843	75	39	1.61	67	
	Biomass	91	21	21	0.50	21	
	Solar	128	0	0	0.13	6	
	Renewable/Others (Total)	2062	96	60	4.76	198	
	Total Rajasthan	7767	2848	2641	65.59	2733	
	UP	Anpara TPS	1630	1165	918	23.70	988
		Obra TPS	1382	487	410	10.80	450
		Paricha TPS	890	481	472	11.30	471
Panki TPS		210	80	60	1.90	79	
Harduaganj TPS		665	38	224	4.00	167	
Tanda TPS (NTPC)		440	190	190	4.79	200	
Roza TPS (IPP)		1200	299	824	17.37	724	
Anpara-C (IPP)		1200	303	414	7.39	308	
Bajaj Energy Pvt.Ltd(IPP) TPS		450	231	217	5.90	246	
Thermal (Total)		8067	3274	3729	87.15	3631	
Vishnuparyag HPS (IPP)		400	436	437	10.47	436	
Other Hydro		527	239	0	5.37	224	
Cogeneration		981	20	20	0.48	20	
Total UP		9975	3969	4186	103.46	3875	
Uttarakhand		Total Hydro	1303	646	781	16.32	680
	Total Uttarakhand	1303	646	781	16.32	680	
Delhi	Raighat TPS	135	41	44	1.10	46	
	Delhi Gas Turbine	282	75	73	2.11	88	
	Pragati Gas Turbine	330	295	277	6.68	278	
	Rithala GPS	108	20	21	0.67	28	
	Bawana GPS	677	0	0	0.00	0	
	Badarpur TPS (NTPC)	705	377	435	9.98	416	
	Thermal (Total)	2237	808	850	20.55	856	
	Total Delhi	2237	808	850	20.55	856	
HP	Baspa HPS (IPP)	330	326	326	7.81	326	
	Malana HPS (IPP)	86	102	105	2.38	99	
	Other Hydro	589	622	622	14.84	618	
	Total HP	1005	1050	1053	25	1043	
J & K	Baglihar HPS (IPP)	450	436	436	10.49	437	
	Other Hydro	323	185	210	4.73	197	
	Gas/Diesel/Others	183	0	0	0.00	0	
	Total J & K	956	621	646	15.22	634	
Total State Control Area Generation		32017	14043	13864	338.74	13678	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			2308	2675	66.99	2791	
Total Regional Availability(Gross)		54353	34285	32369	786.04	32315	

IV. Total Hydro Generation:

Regional Entities Hydro	10364	9739	8512	209.55	8731
State Control Area Hydro	5368	3380	2880	87.17	3196
Total Regional Hydro	15731	13119	11392	296.72	11927

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	50	0	100	100	0.64	0.54	0.10		
Gwalior-Agra (D/C)	303	391	741	0	11.50	0.00	11.50		
Zerda-Kankroli	0	-93	3	123	0.00	0.86	-0.86		
Zerda-Bhinmal	-71	-52	0	156	0.00	0.54	-0.54		
Malanpur-Auraiya	-54	-59	0	121	0.00	1.34	-1.34		
Badod-Kota/Morak	75	22	158	0	1.43	0.00	1.43		
Mundra-Mohindergarh(HVDC)	500	573	579	0	10.90	0.00	10.90		
Sub Total WR	803	782			24.47	3.28	21.19		
Pusauli Bypass	200	200	200	0	4.84	0.00	4.84		
MZP- GKP (D/C)	560	814	950	0	17.83	0.00	17.83		
Patna-Balia(D/C)	394	390	551	0	10.26	0.00	10.26		
B'Sharif-Balia (D/C)	196	348	447	0	8.04	0.00	8.04		
Barh - Balia(D/C)	0	0	0	0	0.00	0.00	0.00		
Pusauli-Balia	-92	-24	0	92	0.00	0.54	-0.54		
Gaya-Fatehpur (765 Kv)	161	14	172	0	2.74	0.00	2.74		
Pusauli-Sahupuri	132	176	178	0	3.66	0.00	3.66		
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00		
Son Ngr-Rihand	-46	-25	0	47	0.00	1.03	-1.03		
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00		
Sub Total ER	1505	1893			47.36	1.57	45.80		
Total IR Exch	2308	2675			71.83	4.85	66.99		

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
31.69	3.51	35.20	12.13	34.04	0.06	1.39	2.04	-1.99
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
49.43	33.66	83.08	45.80	21.19	66.99	-3.63	-12.47	-16.10

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	1.80	14.00	94.10	81.90	27.30	4.10
Frequency (Hz)				Average Frequency	Frequency Variation Index	Std. Dev.	Frequency in 15 Min Block	
Maximum		Minimum		Hz			MAX (Hz)	MIN (Hz)
50.36	7.10	49.24	21.06	49.90	0.42	0.18	50.38	49.54

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	7:22	407	0:43	0.0	0.0	0.0	0.0
Gorakhpur	400	431	8:07	407	10:33	0.0	0.0	41.8	0.9
Bareilly	400	421	7:10	403	11:56	0.0	0.0	0.1	0.0
Kanpur	400	423	5:05	408	11:55	0.0	0.0	6.5	0.0
Dadri	400	420	5:08	403	11:55	0.0	0.0	0.0	0.0
Ballabhgarh	400	424	4:31	405	11:55	0.0	0.0	10.3	0.0
Bawana	400	421	5:08	0	14:41	9.4	9.4	0.1	0.0
Bassi	400	435	0:18	408	19:11	0.0	0.0	56.8	14.0
Hissar	400	414	13:23	399	9:26	0.0	0.0	0.0	0.0
Moga	400	416	13:03	399	9:18	0.0	0.0	0.0	0.0
Abdullapur	400	416	7:10	402	9:28	0.0	0.0	0.0	0.0
Nalagarh	400	414	13:04	397	9:54	0.0	0.0	0.0	0.0
Kishenpur	400	412	13:01	400	9:09	0.0	0.0	0.0	0.0
Wagoora	400	411	2:58	388	19:48	0.0	1.1	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	496.43	960.37	510.01	1545.02	1401.00	498.01
Pong	426.72	384.05	417.02	755.83	421.56	975.89	1298.01	402.24
Tehri	829.79	740.04	819.90	1000.00	818.65	982.26	636.21	553.00
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 29.08.2012 :

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 :

XIV. Tripping of lines in pooling stations :

XV. Complete generation loss in a generating station :

Report for : 29.08.2012

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER