

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरसिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 28.08.2012

Date of Reporting : 29.08.2012

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
33312	2715	36027	49.92	30227	1471	31698	50.31	745.3	37.05

* 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	39.64	11.10		50.73	103.19	104.08	0.90	154.81	1.80
Haryana	40.75	0.75		41.50	59.58	55.12	-4.46	96.62	1.52
Rajasthan	50.93	2.51	5.57	59.01	49.27	53.54	4.28	112.55	0.14
Delhi	20.19			20.19	70.70	63.56	-7.13	83.75	0.10
UP	80.92	15.97	0.48	97.37	113.40	113.51	0.11	210.88	30.85
Uttarakhand		15.78		15.78	13.73	14.98	1.25	30.76	0.91
HP		24.89		24.89	2.13	-1.13	-3.26	23.76	0.03
J & K		15.22	0.00	15.22	18.69	12.33	-6.36	27.55	1.70
Chandigarh				0.00	5.45	4.65	-0.80	4.65	0.00
Total	232.42	86.22	6.05	324.70	436.13	420.64	-15.49	745.34	37.05

* 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	6732	450	59	1722	6748	0	100	2193	48.97	
Haryana	4327	596	-141	896	3717	0	-545	887	21.33	
Rajasthan	5493	49	316	177	4648	0	251	67	1.69	
Delhi	3805	0	-50	329	2845	0	-608	260	8.01	
UP	8655	1440	17	602	9298	1471	270	917	17.88	
Uttarakhand	1517	80	77	40	1185	0	-24	-2	0.12	
HP	1039	0	-67	-1107	884	0	-178	-1006	-23.42	
J&K	1517	100	106	-165	763	0	-663	29	-0.81	
Chandigarh	227	0	-26	3	139	0	-48	0	0.42	
Total	33312	2715	291	2497	30227	1471	-1445	3345	74.19	

* 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	1650	2063	1485	37.28	1553	37.11	0.17
Rihand I STPS	1000	418	496	25	8.88	370	8.76	0.12
Rihand II STPS	1000	950	1035	698	20.21	842	19.98	0.23
Rihand III STPS	500	0	0	0	0.00	0		0.00
Dadri I STPS	840	467	461	450	9.88	412	10.12	-0.23
Dadri II STPS	980	690	665	669	15.27	636	15.24	0.03
Unchahar I TPS	420	198	200	164	3.92	163	3.97	-0.05
Unchahar II TPS	420	400	383	338	7.65	319	7.46	0.19
Unchahar III TPS	210	200	201	156	3.95	165	3.84	0.11
ISTPP (Jhajjar)	1000	470	497	477	7.65	319	11.02	-3.37
Dadri GPS	830	538	277	311	10.74	448	7.11	3.63
Anta GPS	419	390	241	183	5.29	220	5.31	-0.02
Auraiya GPS	663	619	426	460	9.37	390	9.10	0.27
Sub Total (A)	10282	6990	6945	5416	140.09	5837	139.03	1.06
B. NPC								
NAPS	440	263	295	302	6.22	259	6.31	-0.10
RAPS- B	440	381	422	429	9.13	380	9.14	-0.02
RAPS- C	440	410	451	456	9.72	405	9.84	-0.12
Sub Total (B)	1320	1054	1168	1187	25.07	1044	25.30	-0.23
C. NHPC								
Chamera I HPS	540	534	540	540	12.84	535	12.82	0.02
Chamera II HPS	300	300	302	300	7.17	299	7.20	-0.03
Chamera III HPS	231	154	155	152	3.70	154	3.71	0.00
Bairasuil HPS	180	182	182	180	4.21	175	3.91	0.30
Salai-HPS	690	650	660	653	15.55	648	15.66	-0.11
Tanakpur-HPS	94	94	95	95	2.27	95	2.24	0.03
Uri-HPS	480	366	348	350	8.57	357	8.87	-0.31
Dhauliganga-HPS	280	52	277	0	1.01	42	1.24	-0.23
Dulhasti-HPS	390	387	410	345	9.20	383	9.09	0.11
Sewa-II HPS	120	80	85	85	1.98	83	1.86	0.12
Sub Total (C)	3305	2797	3054	2700	66.50	2771	66.60	-0.10
D. NJPC								
Natpna Jhakri	1500	1605	1615	1621	38.49	1604	36.00	2.49
Sub Total (D)	1500	1605	1615	1621	38.49	1604	36.00	2.49
E. THDC								
Tehri HPS	1000	1050	1054	992	24.95	1040	25.00	-0.05
Koteshwar HPS	400	385	392	385	9.23	385	9.24	-0.01
Sub Total (E)	1400	1435	1446	1377	34.18	1424	34.24	-0.06
F. BBMB								
Bhakra HPS	1480	728	1259	569	17.52	730	17.46	0.06
Dehar HPS	990	611	635	600	15.46	644	14.68	0.78
Pong HPS	396	264	366	186	6.81	284	5.01	1.80
Sub Total (F)	2866	1603	2260	1355	39.79	1658	37.14	2.65
G. IPP(s)/JV(s)								
ADHPL HPS(IPP)	192	0	201	158	4.02	167	3.74	0.28
KWHEP HPS(IPP)	1000	0	900	90	21.49	895	23.12	-1.63
Malana Stg-II HPS	100	0	109	110	2.84	110	2.31	0.33
Shree Cement TPS	300	0	139	117	2.91	121	2.78	0.12
Budhil HPS(IPP)	70	0	70	35	0.97	40		0.97
Sub Total (G)	1662	0	1419	510	32.02	1334	31.95	0.07
H. Total Regional Entities (A-G)	22336	15484	17907	14166	376.13	15672	370.26	5.88

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	842	890	19.98	833	
	Guru Nanak Dev TPS(Bhatinda)	440	90	85	1.79	75	
	Guru Hargobind Singh TPS(L.mbt)	920	849	735	17.87	745	
	Thermal (Total)	2620	1781	1710	39.64	1652	
	Total Hydro	1148	593	542	11.10	462	
	Total Punjab	3768	2374	2252	50.73	2114	
Haryana	Panipat TPS	1367	426	419	9.64	402	
	DCRTPP (Yamuna nagar)	600	0	0	0.00	0	
	Faridabad GPS (NTPC)	432	123	89	2.38	99	
	RGTPP (kheadar) (IPP)	1200	580	837	18.39	766	
	Magnum Diesel (IPP)	25	0	0	0.00	0	
	Jhajjar(CLP)	1320	407	399	10.34	431	
	Thermal (Total)	4944	1536	1744	40.75	1698	
	Total Hydro	62	30	29	0.75	31	
	Total Haryana	5006	1566	1773	41.50	1729	
	Rajasthan	kota TPS	1240	666	652	15.30	637
suratgarh TPS		1500	882	603	12.48	520	
Chabra TPS		500	440	433	10.01	417	
Dholpur GPS		330	184	140	3.60	150	
Ramgarh GPS		111	52	82	1.51	63	
RAPS A (NPC)		300	0	0	0.00	0	
Barsingar (NLC)		250	0	0	0.00	0	
Giral LTPS		250	0	69	0.58	24	
Rajwest LTPS (IPP)		540	295	351	7.45	310	
VSLP LTPS (IPP)		135	0	0	0.00	0	
Thermal (Total)		5156	2519	2330	50.93	2122	
Total Hydro		550	115	57	2.51	105	
Wind power		1843	148	151	2.46	103	
Biomass		91	17	17	0.41	17	
Solar		128	0	0	0.19	8	
Renewable/Others (Total)		2062	165	168	5.57	232	
Total Rajasthan		7767	2799	2555	59.01	2459	
UP		Anpara TPS	1630	1099	885	20.90	871
		Obra TPS	1382	303	331	7.00	292
		Paricha TPS	890	476	479	10.00	417
	Panki TPS	210	55	45	1.40	58	
	Harduaganj TPS	665	221	234	3.60	150	
	Tanda TPS (NTPC)	440	190	190	4.97	207	
	Roza TPS (IPP)	1200	599	820	16.89	704	
	Anpara-C (IPP)	1200	473	450	11.18	466	
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	215	189	4.99	208	
	Thermal (Total)	8067	3631	3623	80.92	3372	
	Vishnuparyag HPS (IPP)	400	436	436	10.46	436	
	Other Hydro	527	216	0	5.51	230	
	Cogeneration	981	20	20	0.48	20	
	Total UP	9975	4303	4079	97.37	3621	
	Uttarakhand	Total Hydro	1303	785	664	15.78	658
Total Uttarakhand		1303	785	664	15.78	658	
Delhi	Raighat TPS	135	45	42	1.19	50	
	Delhi Gas Turbine	282	150	150	3.74	156	
	Pragati Gas Turbine	330	146	144	3.61	150	
	Rithala GPS	108	20	20	0.62	26	
	Bawana GPS	677	0	0	0.00	0	
	Badarpur TPS (NTPC)	705	505	475	11.03	460	
	Thermal (Total)	2237	866	831	20.19	841	
	Total Delhi	2237	866	831	20.19	841	
HP	Baspa HPS (IPP)	330	335	304	7.75	323	
	Malana HPS (IPP)	86	108	108	2.48	103	
	Other Hydro	589	616	633	14.67	611	
	Total HP	1005	1059	1045	25	1037	
J & K	Baglihar HPS (IPP)	450	436	449	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	659	15.22	634	
Total State Control Area Generation		32017	14373	13858	324.70	13093	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			3044	2598	68.44	2852	
Total Regional Availability(Gross)		54353	35324	30622	769.28	31617	

IV. Total Hydro Generation:

Regional Entities Hydro	10364	9585	7411	207.10	8629
State Control Area Hydro	5368	3419	2996	86.22	3157
Total Regional Hydro	15731	13004	10407	293.33	11786

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	300	300	500	0	4.50	0.00	4.50	0.00	4.50
Gwalior-Agra (D/C)	435	360	737	0	11.92	0.00	11.92	0.00	11.92
Zerda-Kankroli	-38	-23	14	119	0.00	0.57	-0.57	0.57	-0.57
Zerda-Bhinmal	13	22	87	295	0.00	0.62	-0.62	0.62	-0.62
Malanpur-Auraiya	-93	-106	0	0	0.00	1.73	-1.73	1.73	-1.73
Badod-Kota/Morak	40	7	39	23	0.53	0.00	0.53	0.00	0.53
Mundra-Mohindergarh(HVDC)	572	566	577	0	13.14	0.00	13.14	0.00	13.14
Sub Total WR	1229	1126			30.10	2.92	27.17	2.92	27.17
Pusauli Bypass	200	300	300	0	6.46	0.00	6.46	0.00	6.46
MZP- GKP (D/C)	694	588	812	0	16.31	0.00	16.31	0.00	16.31
Patna-Balia(D/C)	388	451	549	0	10.58	0.00	10.58	0.00	10.58
B'Sharif-Balia (D/C)	320	123	353	0	5.24	0.00	5.24	0.00	5.24
Barh - Balia(D/C)	0	0	0	0	0.00	0.00	0.00	0.00	0.00
Pusauli-Balia	-40	-83	0	86	0.00	1.21	-1.21	1.21	-1.21
Gaya-Fatehpur (765 Kv)	157	-42	157	49	1.53	0.00	1.53	0.00	1.53
Pusauli-Sahupuri	142	160	160	0	3.40	0.00	3.40	0.00	3.40
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00	0.00	0.00
Son Ngr-Rihand	-46	-25	0	47	0.00	1.03	-1.03	1.03	-1.03
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00	0.00	0.00
Sub Total ER	1815	1472			43.51	2.24	41.27	2.24	41.27
Total IR Exch	3044	2598			73.61	5.17	68.44	5.17	68.44

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
31.83	3.71	35.55	11.55	35.45	-3.38	0.21	2.20	-2.16
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
45.92	33.37	79.28	41.27	27.17	68.44	-4.65	-6.19	-10.84

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	0.80	3.90	92.00	88.90	46.70	7.20
Frequency (Hz)				Average Frequency	Frequency Variation Index	Std. Dev.	Frequency in 15 Min Block	
Maximum		Minimum		Hz			MAX (Hz)	MIN (Hz)
50.47	8.06	49.26	19.15	49.99	0.26	0.16	50.39	49.64

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	8:03	405	19:27	0.0	0.0	0.0	0.0
Gorakhpur	400	432	9:04	412	0:50	0.0	0.0	49.5	1.5
Bareilly	400	424	8:04	403	10:45	0.0	0.0	1.9	0.0
Kanpur	400	424	8:04	404	19:15	0.0	0.0	14.1	0.0
Dadri	400	417	3:06	400	10:44	0.0	0.0	0.0	0.0
Ballabhgarh	400	424	3:51	403	10:44	0.0	0.0	14.3	0.0
Bawana	400	420	3:10	402	10:44	0.0	0.0	0.0	0.0
Bassi	400	435	2:43	408	19:15	0.0	0.0	66.0	20.4
Hissar	400	413	3:01	397	10:44	0.0	0.0	0.0	0.0
Moga	400	413	16:00	396	2:14	1.1	1.1	0.0	0.0
Abdullapur	400	416	3:08	400	13:36	0.1	0.1	0.0	0.0
Nalagarh	400	411	3:01	394	10:44	0.0	0.0	0.0	0.0
Kishenpur	400	410	2:45	398	19:16	0.0	0.0	0.0	0.0
Wagoora	400	412	2:45	387	19:37	0.0	4.0	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 28.08.2012 :

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 : 28.08.2012

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER