

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरसिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 22.08.2012
Date of Reporting : 23.08.2012

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
33356	2982	36338	49.84	28434	1701	30135	50.16	765.3	48.84

* 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 * (MU)
Punjab	46.27	9.99		56.26	103.62	102.58	-1.04	158.84	14.30
Haryana	60.00	0.59		60.58	55.36	52.32	-3.04	112.90	0.24
Rajasthan	58.08	3.49	21.24	82.81	40.30	36.78	-3.52	119.59	0.00
Delhi	25.95			25.95	63.50	59.38	-4.12	85.33	0.07
UP	77.23	14.58	1.20	93.01	117.88	116.52	-1.16	209.53	28.48
Uttarakhand		11.90		11.90	15.73	16.56	0.83	28.46	1.98
HP		23.81		23.81	0.53	-1.78	-2.31	22.03	2.07
J & K		15.31	0.00	15.31	13.45	8.68	-4.77	23.99	1.70
Chandigarh				0.00	5.73	4.61	-1.12	4.61	0.00
Total	267.52	79.67	22.44	369.63	415.89	395.65	-20.25	765.27	48.84

* 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	6937	560	-268	1904	6519	1050	-137	1876	50.33	
Haryana	4947	184	-97	706	4689	0	-223	534	15.01	
Rajasthan	5362	0	135	-61	4966	0	-537	73	-1.12	
Delhi	3897	0	70	390	3049	6	-91	223	7.60	
UP	8364	1890	-278	1014	6405	504	69	1514	29.12	
Uttarakhand	1133	220	-17	-48	1173	0	92	37	1.53	
HP	1093	28	30	-589	742	141	-9	-690	-14.20	
J&K	1387	100	59	-182	740	0	-256	-273	-5.63	
Chandigarh	236	0	-15	30	151	0	-57	0	0.66	
Total	33356	2982	-381	3164	28434	1701	-1149	3295	83.30	

* 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	1884	1933	1959	44.56	1857	44.58	-0.02
Rihand I STPS	1000	364	417	354	8.51	355	8.53	-0.02
Rihand II STPS	1000	825	1016	763	17.93	747	17.79	0.14
Rihand III STPS	500	0	0	0	0.00	0		0.00
Dadri I STPS	840	565	616	618	13.41	559	13.25	0.16
Dadri II STPS	980	470	510	530	10.81	450	10.96	-0.15
Unchahar I TPS	420	378	430	320	8.24	343	8.25	-0.02
Unchahar II TPS	420	363	393	319	7.07	295	6.88	0.20
Unchahar III TPS	210	188	220	160	3.70	154	3.71	-0.01
ISTPP (Jhajhar)	1000	470	372	371	8.36	348	8.67	-0.31
Dadri GPS	830	778	581	544	10.51	438	10.61	-0.10
Anta GPS	419	261	190	165	4.10	171	4.00	0.10
Auraiya GPS	663	607	467	402	8.46	353	8.20	0.26
Sub Total (A)	10282	7154	7145	6505	145.67	6069	145.42	0.24
B. NPC								
NAPS	440	260	297	301	6.28	262	6.24	0.04
RAPS- B	440	379	424	426	9.22	384	9.10	0.12
RAPS- C	440	410	451	447	9.68	403	9.84	-0.16
Sub Total (B)	1320	1049	1172	1174	25.18	1049	25.18	0.00
C. NHPC								
Chamera I HPS	540	534	540	540	12.87	536	12.82	0.05
Chamera II HPS	300	88	300	0	2.18	91	2.22	-0.04
Chamera III HPS	231	154	79	0	1.25	52	3.71	-2.46
Bairasuil HPS	180	123	182	60	2.86	119	2.91	-0.05
Salai-HPS	690	621	655	660	14.82	617	15.00	-0.18
Tanakpur-HPS	94	94	95	94	2.27	95	2.24	0.03
Uri-HPS	480	379	418	377	9.43	393	9.66	-0.23
Dhauliganga-HPS	280	277	277	276	6.68	278	6.70	-0.02
Dulhasti-HPS	390	387	404	399	9.26	386	9.25	0.01
Sewa-II HPS	120	80	83	73	1.84	77	1.78	0.05
Sub Total (C)	3305	2735	3033	2479	63.46	2644	66.30	-2.84
D. NJPC								
Nathpa Jhakri	1500	268	0	0	5.65	236	5.70	-0.05
Sub Total (D)	1500	268	0	0	5.65	236	5.70	-0.05
E. THDC								
Tehri HPS	1000	1040	1050	894	23.98	999	24.00	-0.02
Koteshwar HPS	400	305	302	234	4.63	193	5.40	-0.77
Sub Total (E)	1400	1345	1352	1128	28.61	1192	29.40	-0.79
F. BBMB								
Bhakra HPS	1480	838	1233	569	20.46	853	20.12	0.34
Dehar HPS	990	607	825	660	15.68	653	14.58	1.11
Pong HPS	396	224	366	120	5.50	229	5.01	0.49
Sub Total (F)	2866	1670	2424	1349	41.64	1735	39.70	1.94
G. IPP(s)/JV(s)								
ADHPL HPS(IPP)	192	0	233	231	4.97	207	4.44	0.53
KWHEP HPS(IPP)	1000	0	0	0	2.13	89	9.54	-7.41
Malana Stg-II HPS	100	0	110	107	2.60	108	2.22	0.38
Shree Cement TPS	300	0	277	251	6.72	280	6.90	-0.18
Budhil HPS(IPP)	70	0	70	70	1.66	69		1.66
Sub Total (G)	1662	0	690	659	18.08	753	23.09	-5.02
H. Total Regional Entities (A-G)	22336	14220	15816	13294	328.28	13678	334.79	-6.51

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	1038	1060	23.78	991	
	Guru Nanak Dev TPS(Bhatinda)	440	192	190	3.78	158	
	Guru Hargobind Singh TPS(L.mbt)	920	950	757	18.70	779	
	Thermal (Total)	2620	2180	2007	46.27	1928	
	Total Hydro	1148	683	405	9.99	416	
	Total Punjab	3768	2863	2412	56.26	2344	
Haryana	Panipat TPS	1367	1090	1083	25.47	1061	
	DCRTPP (Yamuna nagar)	600	0	0	0.00	0	
	Faridabad GPS (NTPC)	432	117	96	2.37	99	
	RGTPP (khedar) (IPP)	1200	843	1082	22.64	943	
	Magnum Diesel (IPP)	25	0	0	0.00	0	
	Jhajjar(CLP)	1320	383	408	9.52	397	
	Thermal (Total)	4944	2433	2669	60.00	2500	
	Total Hydro	62	18	17	0.59	24	
	Total Haryana	5006	2451	2686	60.58	2524	
Rajasthan	kota TPS	1240	716	780	16.35	681	
	suratgarh TPS	1500	822	765	15.95	665	
	Chabra TPS	500	226	365	5.51	230	
	Dholpur GPS	330	136	139	3.37	140	
	Ramgarh GPS	111	71	70	1.76	73	
	RAPS A (NPC)	300	0	0	0.00	0	
	Barsingar (NLC)	250	113	111	2.64	110	
	Giral LTPS	250	66	69	1.66	69	
	Rajwest LTPS (IPP)	540	458	458	10.84	452	
	VSLP LTPS (IPP)	135	0	0	0.00	0	
	Thermal (Total)	5156	2608	2757	58.08	2420	
	Total Hydro	550	211	107	3.49	145	
	Wind power	1843	499	1027	17.13	714	
	Biomass	91	22	22	0.52	22	
	Solar	128	0	0	0.10	4	
	Renewable/Others (Total)	2062	521	1049	21.24	885	
	Total Rajasthan	7767	3340	3913	82.81	3450	
	UP	Anpara TPS	1630	1054	1236	23.10	963
		Obra TPS	1382	450	299	8.80	367
		Paricha TPS	890	473	615	13.30	554
Panki TPS		210	135	110	2.60	108	
Harduaganj TPS		665	30	28	0.60	25	
Tanda TPS (NTPC)		440	191	192	4.80	200	
Roza TPS (IPP)		1200	824	813	19.65	819	
Anpara-C (IPP)		1200	0	0	0.00	0	
Bajaj Energy Pvt.Ltd(IPP) TPS		450	203	176	4.38	183	
Thermal (Total)		8067	3360	3469	77.23	3218	
Vishnuparyag HPS (IPP)		400	436	436	9.95	414	
Other Hydro		527	194	0	4.64	193	
Cogeneration		981	50	50	1.20	50	
Total UP		9975	4040	3955	93.01	3461	
Uttarakhand		Total Hydro	1303	629	462	11.90	496
		Total Uttarakhand	1303	629	462	11.90	496
Delhi	Raighat TPS	135	50	48	1.11	46	
	Delhi Gas Turbine	282	144	149	3.77	157	
	Pragati Gas Turbine	330	98	102	2.41	100	
	Rithala GPS	108	37	37	0.52	22	
	Bawana GPS	677	226	223	5.31	221	
	Badarpur TPS (NTPC)	705	645	585	12.83	535	
	Thermal (Total)	2237	1200	1144	25.95	1081	
	Total Delhi	2237	1200	1144	25.95	1081	
HP	Baspa HPS (IPP)	330	326	217	6.73	280	
	Malana HPS (IPP)	86	108	108	2.58	107	
	Other Hydro	589	623	609	14.51	604	
	Total HP	1005	1057	934	24	992	
J & K	Baglihar HPS (IPP)	450	442	438	10.58	441	
	Other Hydro	323	185	210	4.73	197	
	Gas/Diesel/Others	183	0	0	0.00	0	
	Total J & K	956	627	648	15.31	638	
Total State Control Area Generation		32017	16207	16154	369.63	14987	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			4176	3241	84.69	3529	
Total Regional Availability(Gross)		54353	36199	32689	782.59	32194	

IV. Total Hydro Generation:

Regional Entities Hydro	10364	7152	5294	149.06	6211
State Control Area Hydro	5368	3419	2573	79.67	2905
Total Regional Hydro	15731	10571	7867	228.73	9116

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	9.03	0.00	9.03
Gwalior-Agra (D/C)	726	530	920	0	15.66	0.00	15.66
Zerda-Kankroli	-62	-130	0	227	0.00	3.06	-3.06
Zerda-Bhinmal	-5	-135	20	197	0.00	2.30	-2.30
Malanpur-Auraiya	-59	-48	0	100	0.00	0.34	-0.34
Badod-Kota/Morak	72	53	89	0	0.92	0.00	0.92
Mundra-Mohindergarh(HVDC)	583	433	583	0	11.57	0.00	11.57
Sub Total WR	1755	1003			37.18	5.70	31.49
Pusauli Bypass	200	100	200	0	3.97	0.00	3.97
MZP- GKP (D/C)	704	842	1016	0	19.77	0.00	19.77
Patna-Balia(D/C)	513	432	645	0	12.23	0.00	12.23
B'Sharif-Balia (D/C)	302	305	414	0	7.27	0.00	7.27
Barh - Balia(D/C)	314	266	362	0	2.52	0.00	2.52
Pusauli-Balia	79	35	102	0	1.23	0.00	1.23
Gaya-Fatehpur (765 Kv)	217	153	262	0	3.92	0.00	3.92
Pusauli-Sahupuri	138	130	170	0	3.33	0.00	3.33
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	2421	2238			54.23	1.03	53.20
Total IR Exch	4176	3241			91.42	6.73	84.69

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
28.14	3.70	31.84	16.33	33.51	7.85	3.80	2.23	-2.18
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
58.25	37.12	95.37	53.20	31.49	84.69	-5.05	-5.63	-10.68

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	0.60	0.00	0.40	5.60	91.10	85.90	55.40	8.50

<----- 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				
50.43	12.43	49.45	19.26	50.00	0.27	0.16	50.35	49.66

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	414	5:14	401	0:10	0.0	0.0	0.0	0.0
Gorakhpur	400	428	5:17	409	1:35	0.0	0.0	40.3	0.0
Bareilly	400	421	5:04	402	9:14	0.0	0.0	0.5	0.0
Kanpur	400	425	5:07	400	19:28	0.0	0.0	6.6	0.0
Dadri	400	417	5:04	402	9:41	0.0	0.0	0.0	0.0
Ballabhgarh	400	424	5:05	404	19:25	0.0	0.0	10.8	0.0
Bawana	400	420	4:01	405	9:41	0.0	0.0	0.0	0.0
Bassi	400	435	2:46	405	19:33	0.0	0.0	70.6	19.9
Hissar	400	414	0:57	400	16:42	0.0	0.0	0.0	0.0
Moga	400	415	2:46	397	16:34	0.0	0.0	0.0	0.0
Abdullapur	400	421	0:57	403	16:43	0.0	0.0	0.7	0.0
Nalagarh	400	420	0:56	401	16:43	0.0	0.0	0.0	0.0
Kishenpur	400	415	1:41	400	19:34	0.0	0.0	0.0	0.0
Wagoora	400	414	1:40	392	19:45	0.0	0.0	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	490.03	738.95	508.16	1455.60	1501.70	610.31
Pong	426.72	384.05	409.31	94.27	422.92	1035.89	3955.94	129.75
Tehri	829.79	740.04	815.70	922.25	818.65	982.26	720.77	365.00
Koteshwar	612.50	598.50	599.90	0.46	NA	NA	385.00	367.00
Chamera-I	760.00	748.75	NA	NA	NA	NA	534.27	349.55
Rihand	268.22	252.98	NA	NA	263.07	484.00	NA	NA
RPS	352.80	343.81	NA	NA	NA	NA	NA	NA
Jawahar Sagar	298.70	295.78	NA	NA	NA	NA	NA	NA
RSD	527.91	487.91	509.95	NA	518.59	NA	412.38	244.09

* NA: Not Available

IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

XI. Weather Conditions For 22.08.2012 :

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 : 22.08.2012

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER