

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरसिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 21.08.2012

Date of Reporting : 22.08.2012

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
33999	4150	38149	49.97	32844	3536	36380	50.15	783.9	72.67

* 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	47.95	13.92		61.88	105.25	104.26	-1.00	166.14	22.37
Haryana	59.48	0.60		60.09	55.29	53.36	-1.93	113.44	5.99
Rajasthan	68.65	2.10	18.56	89.31	41.57	41.78	0.20	131.09	0.95
Delhi	25.77			25.77	65.64	60.42	-5.22	86.19	0.01
UP	79.82	13.65	1.20	94.66	114.75	113.01	-1.74	207.67	36.50
Uttarakhand		11.31		11.31	13.63	14.84	1.21	26.15	4.02
HP		24.67		24.67	-1.93	-1.87	0.06	22.79	1.14
J & K		15.29	0.00	15.29	15.29	10.33	-4.96	25.62	1.70
Chandigarh				0.00	5.84	4.83	-1.02	4.83	0.00
Total	281.67	81.54	19.76	382.97	415.33	400.95	-14.39	783.92	72.67

* 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	7239	1215	-107	1712	6947	1050	-88	2017	46.86	
Haryana	4801	557	-107	663	4849	445	-59	631	14.78	
Rajasthan	5855	84	105	-81	5452	107	170	59	-0.60	
Delhi	3900	0	-74	320	3441	0	-377	212	7.53	
UP	8306	1955	-182	1259	9246	1934	165	1386	26.95	
Uttarakhand	1290	230	53	-38	1070	0	-99	30	0.10	
HP	1043	9	22	-570	860	0	7	-671	-13.89	
J&K	1338	100	-56	-219	814	0	-387	-270	-6.05	
Chandigarh	227	0	-50	-1	165	0	-43	0	0.68	
Total	33999	4150	-396	3046	32844	3536	-711	3393	76.35	

* 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	1915	2058	2064	46.35	1931	45.96	0.39
Rihand I STPS	1000	356	500	377	8.56	357	8.54	0.02
Rihand II STPS	1000	825	986	832	19.90	829	19.80	0.10
Rihand III STPS	500	0	0	0	0.00	0	0.00	0.00
Dadri I STPS	840	550	612	602	13.32	555	13.19	0.13
Dadri II STPS	980	641	668	684	15.07	628	15.33	-0.26
Unchahar I TPS	420	368	399	415	8.78	366	8.82	-0.04
Unchahar II TPS	420	368	396	411	8.78	366	8.82	-0.05
Unchahar III TPS	210	189	208	208	4.53	189	4.54	-0.01
ISTPP (Jhajihar)	1000	470	501	501	10.28	428	10.76	-0.49
Dadri GPS	830	779	545	785	14.98	624	15.28	-0.30
Anta GPS	419	261	170	250	4.99	208	5.06	-0.06
Auraiya GPS	663	605	408	608	11.58	482	11.71	-0.14
Sub Total (A)	10282	7327	7451	7737	167.12	6963	167.82	-0.71
B. NPC								
NAPS	440	258	294	302	6.27	261	6.19	0.07
RAPS- B	440	382	422	421	9.15	381	9.17	-0.01
RAPS- C	440	410	445	448	9.64	402	9.84	-0.20
Sub Total (B)	1320	1050	1161	1171	25.06	1044	25.20	-0.14
C. NHPC								
Chamera I HPS	540	534	540	540	12.89	537	12.82	0.07
Chamera II HPS	300	0	0	0	0.00	0	0.42	-0.42
Chamera III HPS	231	51	79	0	1.25	52	1.25	0.00
Bairasuil HPS	180	182	182	182	4.15	173	3.56	0.59
Salai-HPS	690	658	660	660	15.72	655	15.78	-0.06
Tanakpur-HPS	94	94	95	94	2.28	95	2.24	0.04
Uri-HPS	480	393	381	405	9.30	388	9.05	0.26
Dhauliganga-HPS	280	277	279	279	6.20	258	6.75	-0.55
Duihasti-HPS	390	387	406	378	9.23	385	9.18	0.06
Sewa-II HPS	120	80	82	36	1.33	56	1.37	-0.04
Sub Total (C)	3305	2655	2704	2574	62.36	2598	62.41	-0.06
D. NJPC								
Natpha Jhakri	1500	0	0	0	0.00	0	0.00	0.00
Sub Total (D)	1500	0	0	0	0.00	0	0.00	0.00
E. THDC								
Tehri HPS	1000	1040	1045	1046	18.77	782	18.90	-0.12
Koteshwar HPS	400	300	302	234	4.63	193	5.50	-0.87
Sub Total (E)	1400	1340	1347	1280	23.40	975	24.40	-0.99
F. BBMB								
Bhakra HPS	1480	847	1256	541	20.53	855	20.32	0.21
Dehar HPS	990	619	825	620	15.45	644	14.86	0.59
Pong HPS	396	202	366	60	5.50	229	5.01	0.49
Sub Total (F)	2866	1668	2447	1221	41.48	1728	40.19	1.29
G. IPP(s)/JV(s)								
ADHPL HPS(IPP)	192	0	230	228	5.21	217	4.26	0.94
KWHEP HPS(IPP)	1000	0	0	0	0.00	0	0.00	0.00
Malana Stg-II HPS	100	0	108	108	2.52	105	2.20	0.32
Shree Cement TPS	300	0	279	184	6.03	251	6.57	-0.55
Budhil HPS(IPP)	70	0	70	70	1.66	69	1.66	0.00
Sub Total (G)	1662	0	687	590	15.41	642	13.03	2.37
H. Total Regional Entities (A-G)	22336	14040	15797	14573	334.82	13951	333.05	1.77

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	1244	1248	27.87	1161	
	Guru Nanak Dev TPS(Bhatinda)	440	198	203	4.35	181	
	Guru Hargobind Singh TPS(L.mbt)	920	716	726	15.73	655	
	Thermal (Total)	2620	2158	2177	47.95	1998	
	Total Hydro	1148	642	443	13.92	580	
	Total Punjab	3768	2800	2620	61.88	2578	
Haryana	Panipat TPS	1367	1087	1082	25.40	1058	
	DCRTPP (Yamuna nagar)	600	0	0	0.00	0	
	Faridabad GPS (NTPC)	432	145	115	2.66	111	
	RGTPP (kheadar) (IPP)	1200	752	1082	21.38	891	
	Magnum Diesel (IPP)	25	0	0	0.00	0	
	Jhajjar(CLP)	1320	413	365	10.05	419	
	Thermal (Total)	4944	2397	2644	59.48	2479	
	Total Hydro	62	18	16	0.60	25	
	Total Haryana	5006	2415	2660	60.09	2504	
Rajasthan	kota TPS	1240	876	872	19.91	830	
	suratgarh TPS	1500	866	867	19.16	798	
	Chabra TPS	500	417	411	9.28	387	
	Dholpur GPS	330	146	146	3.49	145	
	Ramgarh GPS	111	70	71	1.80	75	
	RAPS A (NPC)	300	0	0	0.00	0	
	Barsingar (NLC)	250	110	112	2.64	110	
	Giral LTPS	250	73	48	1.29	54	
	Rajwest LTPS (IPP)	540	473	473	11.08	462	
	VSLP LTPS (IPP)	135	0	0	0.00	0	
	Thermal (Total)	5156	3031	3000	68.65	2860	
	Total Hydro	550	127	49	2.10	88	
	Wind power	1843	754	404	16.10	671	
	Biomass	91	11	11	0.26	11	
	Solar	128	0	0	0.10	4	
	Renewable/Others (Total)	2062	765	415	18.56	773	
	Total Rajasthan	7767	3923	3464	89.31	3721	
	UP	Anpara TPS	1630	1227	1221	26.00	1083
		Obra TPS	1382	310	531	8.80	367
		Paricha TPS	890	618	614	13.20	550
Panki TPS		210	115	105	2.30	96	
Harduaganj TPS		665	30	28	0.60	25	
Tanda TPS (NTPC)		440	193	192	4.82	201	
Roza TPS (IPP)		1200	819	820	19.57	815	
Anpara-C (IPP)		1200	0	0	0.00	0	
Bajaj Energy Pvt.Ltd(IPP) TPS		450	151	208	4.53	189	
Thermal (Total)		8067	3463	3719	79.82	3326	
Vishnuparyag HPS (IPP)		400	436	0	8.71	363	
Other Hydro		527	254	0	4.94	206	
Cogeneration		981	50	50	1.20	50	
Total UP		9975	4203	3769	94.66	3581	
Uttarakhand		Total Hydro	1303	677	530	11.31	471
	Total Uttarakhand	1303	677	530	11.31	471	
Delhi	Raighat TPS	135	47	46	1.14	47	
	Delhi Gas Turbine	282	150	146	3.57	149	
	Pragati Gas Turbine	330	101	99	2.38	99	
	Rithala GPS	108	37	40	0.68	28	
	Bawana GPS	677	232	236	5.60	233	
	Badarpur TPS (NTPC)	705	630	615	12.39	516	
	Thermal (Total)	2237	1197	1182	25.77	1074	
	Total Delhi	2237	1197	1182	25.77	1074	
HP	Baspa HPS (IPP)	330	328	328	7.86	327	
	Malana HPS (IPP)	86	108	108	2.54	106	
	Other Hydro	589	606	607	14.27	594	
	Total HP	1005	1042	1043	25	1028	
J & K	Baglihar HPS (IPP)	450	440	440	10.56	440	
	Other Hydro	323	185	210	4.73	197	
	Gas/Diesel/Others	183	0	0	0.00	0	
	Total J & K	956	625	650	15.29	637	
Total State Control Area Generation		32017	16882	15918	382.97	15594	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			3318	3291	80.23	3343	
Total Regional Availability(Gross)		54353	35997	33782	798.03	32888	

IV. Total Hydro Generation:

Regional Entities Hydro	10364	6836	5411	134.97	5624
State Control Area Hydro	5368	3385	2731	81.54	3035
Total Regional Hydro	15731	10221	8142	216.50	8658

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	500	500	0	9.34	0.00	9.34	0.00	9.34
Gwalior-Agra (D/C)	719	485	839	0	15.73	0.00	15.73	0.00	15.73
Zerda-Kankroli	23	-57	62	208	0.00	1.71	-1.71	0.00	-1.71
Zerda-Bhinmal	11	-35	140	178	0.00	0.96	-0.96	0.00	-0.96
Malanpur-Auraiya	-65	-112	0	120	0.00	1.57	-1.57	0.00	-1.57
Badod-Kota/Morak	72	53	89	0	0.92	0.00	0.92	0.00	0.92
Mundra-Mohindergarh(HVDC)	0	348	417	0	6.42	0.00	6.42	0.00	6.42
Sub Total WR	1060	1182			32.40	4.25			28.16
Pusauli Bypass	100	200	200	0	3.51	0.00	3.51	0.00	3.51
MZP- GKP (D/C)	786	772	988	0	19.78	0.00	19.78	0.00	19.78
Patna-Balia(D/C)	669	234	671	0	9.96	0.00	9.96	0.00	9.96
B'Sharif-Balia (D/C)	346	302	452	0	7.97	0.00	7.97	0.00	7.97
Barh - Balia(D/C)	0	282	546	0	4.17	0.00	4.17	0.00	4.17
Pusauli-Balia	83	73	142	0	0.98	0.00	0.98	0.00	0.98
Gaya-Fatehpur (765 Kv)	191	116	250	0	3.46	0.00	3.46	0.00	3.46
Pusauli-Sahupuri	129	155	165	0	3.27	0.00	3.27	0.00	3.27
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	0.00	-1.03
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00	0.00	0.00
Sub Total ER	2258	2109			53.10	1.03			52.07
Total IR Exch	3318	3291			85.51	5.28			80.23

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
30.48	3.71	34.20	15.82	34.88	7.69	5.91	2.23	-2.19
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
59.93	36.97	96.90	52.07	28.16	80.23	-7.86	-8.82	-16.67

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	0.70	5.10	95.10	90.70	37.40	4.20

<----- 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				
50.36	9.50	49.34	19.19	49.95	0.25	0.15	50.33	49.71

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	413	16:50	399	0:10	0.0	0.0	0.0	0.0
Gorakhpur	400	430	17:26	408	0:19	0.0	0.0	39.7	0.0
Bareilly	400	421	17:05	402	19:18	0.0	0.0	0.0	0.0
Kanpur	400	421	16:41	406	19:16	0.0	0.0	0.2	0.0
Dadri	400	414	3:08	401	12:19	0.0	0.0	0.0	0.0
Ballabhgarh	400	420	3:09	404	12:22	0.0	0.0	0.0	0.0
Bawana	400	418	3:12	403	12:20	0.0	0.0	0.0	0.0
Bassi	400	433	3:11	408	19:14	0.0	0.0	59.7	0.9
Hissar	400	413	3:09	399	12:20	0.0	0.0	0.0	0.0
Moga	400	415	17:03	400	12:11	0.0	0.0	0.0	0.0
Abdullapur	400	421	3:07	405	12:20	0.0	0.0	1.8	0.0
Nalagarh	400	419	3:11	403	12:14	0.0	0.0	0.0	0.0
Kishenpur	400	415	17:02	403	20:33	0.0	0.0	0.0	0.0
Wagoora	400	414	4:22	397	21:08	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 21.08.2012 :

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 :

1. Generation loss at NJPC(1600MW), Karcham W. HEP(1200MW), Chamera-2(300MW) .
due to high silt level in River water

Report for : 21.08.2012

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER