

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पॉवरसिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 19.08.2012
Date of Reporting : 20.08.2012

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
35962	3556	39519	49.90	35785	3228	39013	49.89	839.7	70.17

* 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	49.71	16.98		66.69	117.41	117.55	0.15	184.24	14.30
Haryana	68.55	0.63		69.17	62.00	60.90	-1.10	130.07	10.46
Rajasthan	70.63	2.07	12.74	85.44	39.83	41.92	2.09	127.36	1.96
Delhi	26.19			26.19	69.62	65.60	-4.02	91.78	0.21
UP	78.47	13.74	1.20	93.41	128.78	125.89	-2.89	219.30	38.49
Uttarakhand		12.84		12.84	14.22	14.15	-0.07	26.99	2.65
HP		23.46		23.46	1.72	-0.67	-2.39	22.79	0.41
J & K		15.28	0.00	15.28	18.36	16.27	-2.09	31.56	1.70
Chandigarh				0.00	5.85	5.66	-0.19	5.66	0.00
Total	293.54	84.99	13.94	392.47	457.79	447.26	-10.53	839.73	70.17

* 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	
Punjab	7909	560	-83	2137	7845	1050	20	2562	57.74
Haryana	5594	292	-42	878	5339	1094	-58	887	19.92
Rajasthan	5450	328	166	137	5315	0	-243	-228	-4.19
Delhi	4227	0	44	321	3832	0	-211	314	6.20
UP	9185	1935	61	1044	10095	1004	53	1809	35.06
Uttarakhand	1065	195	24	-46	1131	80	-73	59	1.87
HP	723	147	-90	-1085	999	0	-62	-1108	-25.00
J&K	1536	100	-42	-156	1034	0	-154	-224	-5.21
Chandigarh	274	0	21	-13	196	0	-28	0	0.40
Total	35962	3556	58	3216	35785	3228	-757	4071	86.79

* STOA figures are at sellers boundary & PX figures are at regional boundary.

III. Regional Entities :

Entity	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	1670	1966	1548	40.39	1683	40.07	0.32
	Rihand I STPS	1000	354	480	381	8.56	357	8.47	0.09
	Rihand II STPS	1000	781	1081	813	18.93	789	18.69	0.24
	Rihand III STPS	500		0	0	0.00	0		0.00
	Dadri I STPS	840	614	623	595	13.79	574	13.84	-0.05
	Dadri II STPS	980	729	865	702	16.73	697	16.94	-0.21
	Unchahar I TPS	420	383	418	420	9.11	380	9.15	-0.03
	Unchahar II TPS	420	383	419	426	9.17	382	9.11	0.06
	Unchahar III TPS	210	192	211	210	4.59	191	4.56	0.02
	ISTPP (Jhajihar)	1000	470	505	494	10.54	439	10.67	-0.14
	Dadri GPS	830	760	440	769	13.84	577	14.37	-0.53
	Anta GPS	419	260	163	263	5.14	214	5.20	-0.06
	Auraiya GPS	663	609	373	609	11.09	462	11.71	-0.62
	Sub Total (A)		10282	7206	7544	7230	161.88	6745	162.79
B. NPC	NAPS	440	258	302	300	6.21	259	6.19	0.02
	RAPS- B	440	384	421	423	9.15	381	9.22	-0.06
	RAPS- C	440	410	449	455	9.72	405	9.84	-0.12
	Sub Total (B)		1320	1052	1172	1178	25.08	1045	25.25
C. NHPC	Chamera I HPS	540	534	540	540	12.86	536	12.81	0.05
	Chamera II HPS	300	300	300	300	7.14	297	6.98	0.16
	Chamera III HPS	231	231	230	230	5.56	232	5.52	0.04
	Bairasuil HPS	180	182	182	120	2.62	109	2.45	0.17
	Salal-HPS	690	660	660	663	15.89	662	15.88	0.02
	Tanakpur-HPS	94	94	95	95	2.23	93	2.24	-0.01
	Uri-HPS	480	365	388	400	9.34	389	8.88	0.45
	Dhauliganga-HPS	280	277	277	277	6.69	279	6.67	0.02
	Dulhasti-HPS	390	387	388	399	9.25	386	9.18	0.08
	Sewa-II HPS	120	80	32	36	0.78	32	0.77	0.01
	Sub Total (C)		3305	3109	3092	3060	72.35	3015	71.38
D.NJPC	Nathpa Jhakri	1500	1605	1624	1622	38.54	1606	38.52	0.02
	Sub Total (D)		1500	1605	1624	1622	38.54	1606	38.52
E. THDC	Tehri HPS	1000	1040	1040	663	13.88	579	14.00	-0.12
	Sub Total (E)		1400	1340	826	17.80	742	17.95	-0.15
F. BBMB	Bhakra HPS	1480	779	1228	570	18.97	790	18.69	0.28
	Dehar HPS	990	610	660	660	15.72	655	14.64	1.08
	Pong HPS	396	122	180	60	2.61	109	5.01	-2.40
	Sub Total (F)		2866	1511	2068	1290	37.30	1554	38.34
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	217	208	4.64	193	3.17	1.47
	KWHEP HPS(IPP)	1000	0	1200	1200	21.88	912	20.51	1.37
	Malana Stg-II HPS	100	0	104	56	1.86	77	2.09	-0.24
	Shree Cement TPS	300	0	145	143	3.40	142	3.46	-0.06
	Budhil HPS(IPP)	70	0	70	69	1.66	69		1.66
	Sub Total (G)		1662	0	1736	1676	33.43	1393	29.23
H. Total Regional Entities (A-G)		22336	15822	18576	16882	386.39	16100	383.46	2.93

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	1236	1049	25.19	1050
	Guru Nanak Dev TPS(Bhatinda)	440	195	203	4.08	170
	Guru Hargobind Singh TPS(L.mbt)	920	910	935	20.44	852
	Thermal (Total)	2620	2341	2187	49.71	2071
	Total Hydro	1148	787	746	16.98	708
	Total Punjab	3768	3128	2933	66.69	2779
Haryana	Panipat TPS	1367	1079	1043	25.79	1075
	DCRTPP (Yamuna nagar)	600	0	0	0.00	0
	Faridabad GPS (NTPC)	432	326	326	7.61	317
	RGTPP (khedar) (IPP)	1200	1099	1118	25.78	1074
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	1320	363	356	9.36	390
	Thermal (Total)	4944	2867	2843	68.55	2856
	Total Hydro	62	18	21	0.63	26
	Total Haryana	5006	2885	2864	69.17	2882
	Rajasthan	kota TPS	1240	878	879	20.72
suratgarh TPS		1500	890	899	21.12	880
Chabra TPS		500	350	431	10.05	419
Dholpur GPS		330	143	208	3.09	129
Ramgarh GPS		111	65	67	1.67	70
RAPS A (NPC)		300	0	0	0.00	0
Barsingsar (NLC)		250	113	113	2.63	109
Giral LTPS		250	28	0	0.33	14
Rajwest LTPS (IPP)		540	474	474	11.02	459
VSLP LTPS (IPP)		135	0	0	0.00	0
Thermal (Total)		5156	2941	3071	70.63	2943
Total Hydro		550	151	49	2.07	86
Wind power		1843	113	900	9.91	413
Biomass		91	26	26	0.61	26
Solar		128	0	0	0.16	7
Renewable/Others (Total)		2062	139	926	12.74	531
Total Rajasthan		7767	3231	4046	85.44	3560
UP	Anpara TPS	1630	985	812	19.10	796
	Obra TPS	1382	510	382	9.90	413
	Paricha TPS	890	592	589	12.60	525
	Panki TPS	210	50	50	0.70	29
	Harduaganj TPS	665	0	0	0.00	0
	Tanda TPS (NTPC)	440	191	192	4.84	201
	Roza TPS (IPP)	1200	824	824	19.74	822
	Anpara-C (IPP)	1200	176	468	8.74	364
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	116	166	2.86	119
	Thermal (Total)	8067	3444	3483	78.47	3270
	Vishnuparyag HPS (IPP)	400	436	436	10.36	432
	Other Hydro	527	196	0	3.38	141
	Cogeneration	981	50	50	1.20	50
	Total UP	9975	4126	3969	93.41	3460
	Uttarakhand	Total Hydro	1303	506	605	12.84
Total Uttarakhand		1303	506	605	12.84	535
Delhi	Raighat TPS	135	48	49	1.34	56
	Delhi Gas Turbine	282	147	171	3.71	155
	Pragati Gas Turbine	330	99	97	2.40	100
	Rithala GPS	108	0	0	0.00	0
	Bawana GPS	677	227	281	5.73	239
	Badarpur TPS (NTPC)	705	585	610	13.00	542
	Thermal (Total)	2237	1106	1208	26.19	1091
	Total Delhi	2237	1106	1208	26.19	1091
HP	Baspa HPS (IPP)	330	0	330	6.77	282
	Malana HPS (IPP)	86	108	108	2.38	99
	Other Hydro	589	644	628	14.31	596
	Total HP	1005	752	1066	23	977
J & K	Baglihar HPS (IPP)	450	442	440	10.55	440
	Other Hydro	323	185	210	4.73	197
	Gas/Diesel/Others	183	0	0	0.00	0
	Total J & K	956	627	650	15.28	637
Total State Control Area Generation		32017	16361	17341	392.47	15921
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			3535	3784	74.96	3123
Total Regional Availability(Gross)		54353	38472	38007	853.82	35144

IV. Total Hydro Generation:

Regional Entities Hydro	10364	9645	8262	194.36	8098
State Control Area Hydro	5368	3037	3137	84.99	3110
Total Regional Hydro	15731	12682	11399	279.35	11208

V(A). Inter Regional Exchange [Import (+ve)/Export (-ve)] [Linkwise]

Element	Peak(20:00 Hrs) MW	Off Peak(03:00 Hrs) MW	Maximum Interchange (MW)		Energy (MU)		Net Energy MU
			Import	Export	Import	Export	
Vindhychal B/B	400	400	500	0	8.52	0.00	8.52
Gwalior-Agra (D/C)	456	680	757	0	14.62	0.00	14.62
Zerda-Kankroli	-96	-189	0	322	0.00	4.45	-4.45
Zerda-Bhinmal	8	-170	25	225	0.00	1.91	-1.91
Malanpur-Auraiya	-79	-74	0	120	0.00	1.59	-1.59
Badod-Kota/Morak	14	-10	34	52	0.28	0.00	0.28
Mundra-Mohindergarh(HVDC)	583	558	586	0	14.92	0.00	14.92
Sub Total WR	1286	1195			38.33	7.95	30.38
Pusauli Bypass	300	300	300	0	7.27	0.00	7.27
MZP- GKP (D/C)	720	866	962	0	7.77	0.00	7.77
Patna-Balia(D/C)	586	490	668	0	12.56	0.00	12.56
B'Sharif-Balia (D/C)	332	394	515	0	7.95	0.00	7.95
Barh - Balia(D/C)	0	300	302	0	1.93	0.00	1.93
Pusauli-Balia	0	-38	18	18	0.00	0.43	-0.43
Gaya-Fatehpur (765 Kv)	227	149	303	0	5.30	0.00	5.30
Pusauli-Sahupuri	130	153	159	0	3.26	0.00	3.26
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-46	-25	0	47	0.00	1.04	-1.04
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sub Total ER	2249	2589			46.04	1.47	44.58
Total IR Exch	3535	3784			84.38	9.42	74.96

V(B). Inter Regional Schedule & Actual Exchanges [Import (+ve)/Export (-ve)] [Corridor wise]

ER	ISGS/LT Schedule (MU)		Bilateral Schedule (MU)		Power Exchange Shdl (MU)		Wheeling (MU)	
	Bhutan	Total	Through ER	Through WR	Through ER	Through WR	Through ER	Through WR
33.21	3.72	36.93	10.71	31.11	10.03	8.13	2.50	-2.45

Total IR Schedule (MU)			Total IR Actual (MU)			Net IR UI (MU)		
Through ER	Through WR Incld Mndra	Total	Through ER	Through WR	Total	Through ER	Through WR	Total
60.18	34.27	94.45	44.58	30.38	74.96	-15.60	-3.89	-19.49

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	1.30	15.50	95.20	81.00	19.80	3.50

<----- Frequency (Hz) ----->				Average Frequency Hz	Frequency Variation Index	Std. Dev.	Frequency in 15 Min Block	
Maximum		Minimum					MAX (Hz)	MIN (Hz)
50.45	6.05	49.32	19.10	49.86	0.48	0.17	50.39	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	413	6:52	399	0:12	0.0	0.0	0.0	0.0
Gorakhpur	400	428	6:47	401	23:56	0.0	0.0	39.1	0.0
Bareilly	400	420	17:13	395	22:33	0.0	0.0	0.0	0.0
Kanpur	400	422	17:10	399	22:32	0.0	0.0	1.3	0.0
Dadri	400	413	17:33	394	22:34	0.0	0.0	0.0	0.0
Ballabgarh	400	418	17:32	399	22:34	0.0	0.0	0.0	0.0
Bawana	400	416	17:32	398	22:32	0.0	0.0	0.0	0.0
Bassi	400	434	17:03	412	19:32	0.0	0.0	51.9	3.1
Hissar	400	413	17:35	395	0:17	0.0	0.0	0.0	0.0
Moga	400	412	17:03	396	0:16	0.0	0.0	0.0	0.0
Abdullapur	400	416	17:03	401	0:18	0.0	0.0	0.0	0.0
Nalagarh	400	416	17:03	395	22:28	0.0	0.0	0.0	0.0
Kishenpur	400	411	6:10	397	20:15	0.0	0.0	0.0	0.0
Wagoora	400	409	6:10	382	20:16	0.0	12.6	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 (m ³ /s)	Usage (m ³ /s)
Bhakra	513.59	445.62	489.35	709.72	507.83	1440.82	1723.81	586.41
Pong	426.72	384.05	407.94	425.81	422.84	1020.81	3432.14	174.23
Tehri	829.79	740.04	814.55	902.26	818.65	982.26	970.88	316.00
Koteswar	612.50	598.50	NA	NA	NA	NA	NA	NA
Chamera-I	760.00	748.75	NA	12.84	NA	NA	323.17	348.68
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	502.18	NA	518.05	NA	329.78	397.37

* NA: Not Available
IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

XI. Weather Conditions For 19.08.2012 :
1: Rains in HP and J&K.

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 : 19.08.2012

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER