

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरसिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 12.08.2012

Date of Reporting : 13.08.2012

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
34322	3192	37513	50.04	32212	2446	34658	50.07	784.1	63.55

* 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)	Consumption (Net MU)	Shortages * (MU)
	Thermal	Hydro	Renewable/others \$	Total					
Punjab	50.39	13.74		64.12	111.44	111.91	0.47	176.03	16.16
Haryana	53.45	0.60		54.06	72.72	71.02	-1.69	125.08	0.19
Rajasthan	63.03	0.56	2.46	66.04	44.73	50.38	5.64	116.42	3.70
Delhi	24.32			24.32	66.31	60.11	-6.20	84.43	0.03
UP	75.53	12.94	1.20	89.67	109.87	105.51	-4.36	195.18	38.77
Uttarakhand		18.32		18.32	11.67	11.35	-0.32	29.67	1.75
HP		25.45		25.45	0.51	-2.60	-3.11	22.85	0.00
J & K		15.23	0.00	15.23	19.06	14.67	-4.40	29.89	2.95
Chandigarh				0.00	5.72	4.58	-1.14	4.58	0.00
Total	266.72	86.84	3.66	357.21	442.03	426.92	-15.11	784.13	63.55

* 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 (Net MU)	
	Demand Met	Shortage	UI	STOA/PX transaction	Demand Met	Shortage	UI	STOA/PX transaction	STOA/PX transaction	
Punjab	7617	620	-148	2201	7139	1170	4	2363	57.61	
Haryana	5840	28	13	1196	4932	0	-322	861	24.40	
Rajasthan	4918	534	330	0	4892	0	300	-69	-0.79	
Delhi	3915	0	-308	292	3125	0	-370	16	3.86	
UP	8193	1700	-228	492	8676	1176	-300	1877	25.64	
Uttarakhand	1255	160	-48	4	1322	0	47	20	0.91	
HP	824	0	-332	-988	895	0	-83	-1151	-24.78	
J&K	1540	150	-44	-150	1050	100	-278	-110	-3.55	
Chandigarh	219	0	-56	-7	182	0	-43	-10	0.26	
Total	34322	3192	-820	3041	32212	2446	-1045	3797	83.57	

* 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	1768	2015	1912	42.75	1781	42.43	0.32
Rihand I STPS	1000	334	425	346	7.80	325	7.97	-0.17
Rihand II STPS	1000	712	857	732	16.99	708	16.99	-0.01
Rihand III STPS	500		0	0	0.00	0		0.00
Dadri I STPS	840	623	835	598	13.98	582	14.65	-0.67
Dadri II STPS	980	708	970	705	16.16	673	16.90	-0.74
Unchahar I TPS	420	356	428	338	8.14	339	8.34	-0.19
Unchahar II TPS	420	357	437	306	8.09	337	8.20	-0.11
Unchahar III TPS	210	178	220	163	4.09	170	4.14	-0.06
ISTPP (Jhajjar)	1000	369	337	325	6.81	284	6.25	0.56
Dadri GPS	830	769	573	505	12.21	509	12.65	-0.44
Anta GPS	419	261	170	163	4.27	178	4.35	-0.09
Auraiya GPS	663	499	296	305	6.38	266	6.29	0.09
Sub Total (A)	10282	6933	7563	6398	147.66	6153	149.15	-1.49
B. NPC								
NAPS	440	259	294	301	6.24	260	6.22	0.02
RAPS- B	440	390	425	421	9.08	378	9.36	-0.28
RAPS- C	440	420	468	458	9.71	405	10.08	-0.37
Sub Total (B)	1320	1069	1187	1180	25.03	1043	25.66	-0.63
C. NHPC								
Chamera I HPS	540	534	540	540	12.79	533	12.81	-0.03
Chamera II HPS	300	300	303	284	7.15	298	7.20	-0.06
Chamera III HPS	231	231	78	78	5.54	231	5.54	0.01
Bairasuil HPS	180	179	120	120	2.10	88	2.39	-0.29
Salal-HPS	690	661	654	660	15.77	657	15.79	-0.02
Tanakpur-HPS	94	37	78	66	0.85	35	0.91	-0.06
Uri-HPS	480	396	427	413	9.07	378	9.42	-0.35
Dhauliganga-HPS	280	277	283	277	6.64	277	6.58	0.06
Dulhasi-HPS	390	387	395	368	8.75	365	8.53	0.22
Sewa-II HPS	120	80	84	32	0.96	40	1.06	-0.10
Sub Total (C)	3305	3081	2962	2838	69.62	2901	70.24	-0.62
D. NJPC								
Nathpa Jhakri	1500	1605	1623	1614	38.57	1607	38.52	0.05
Sub Total (D)	1500	1605	1623	1614	38.57	1607	38.52	0.05
E. THDC								
Tehri HPS	1000	595	1022	661	8.68	362	9.00	-0.32
Koteshwar HPS	400	310	319	154	2.54	106	2.65	-0.11
Sub Total (E)	1400	905	1341	815	11.22	468	11.65	-0.43
F. BBMB								
Bhakra HPS	1480	832	1242	676	20.26	844	19.97	0.29
Dehar HPS	990	614	825	620	14.95	623	14.74	0.22
Pong HPS	396	269	366	186	6.70	279	5.01	1.69
Sub Total (F)	2866	1715	2433	1482	41.91	1746	39.71	2.20
G. IPP(s)/JV(s)								
ADHPL HPS(IPP)	192	0	228	230	4.80	200	4.43	0.37
KWHEP HPS(IPP)	1000	0	1200	1200	28.55	1190	28.63	-0.08
Malana Stg-II HPS	100	0	107	104	2.33	97	2.21	0.12
Shree Cement TPS	300	0	273	281	6.43	268	6.59	-0.17
Budhil HPS(IPP)	70	0	70	70	1.65	69		1.65
Sub Total (G)	1662	0	1878	1885	43.76	1823	41.87	1.89
H. Total Regional Entities (A-G)	22336	15308	18987	16212	377.77	15740	376.80	0.97

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	1234	1060	26.07	1086
	Guru Nanak Dev TPS(Bhatinda)	440	228	211	4.77	199
	Guru Hargobind Singh TPS(L.mbt)	920	926	797	19.55	814
	Thermal (Total)	2620	2388	2068	50.39	2099
	Total Hydro	1148	565	540	13.74	572
	Total Punjab	3768	2953	2608	64.12	2672
Haryana	Panipat TPS	1367	1083	873	22.79	950
	DCRTPP (Yamuna nagar)	600	0	0	0.00	0
	Faridabad GPS (NTPC)	432	303	303	7.80	325
	RGTPP (kheadar) (IPP)	1200	628	731	16.50	687
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	1320	359	357	6.37	265
	Thermal (Total)	4944	2373	2264	53.45	2227
	Total Hydro	62	26	27	0.60	25
	Total Haryana	5006	2399	2291	54.06	2252
Rajasthan	kota TPS	1240	829	783	19.31	804
	suratgarh TPS	1500	892	618	20.47	853
	Chabra TPS	500	208	410	7.39	308
	Dholpur GPS	330	140	146	3.33	139
	Ramgarh GPS	111	53	54	1.11	46
	RAPS A (NPC)	300	190	190	4.51	188
	Barsingsar (NLC)	250	0	114	1.87	78
	Giral LTPS	250	0	0	0.09	4
	Rajwest LTPS (IPP)	540	121	235	4.95	206
	VSLP LTPS (IPP)	135	0	0	0.00	0
	Thermal (Total)	5156	2433	2550	63.03	2626
	Total Hydro	550	32	0	0.56	23
	Wind power	1843	106	18	1.08	45
	Biomass	91	21	21	0.64	27
	Solar	128	0	0	0.18	7
	Renewable/Others (Total)	2062	127	39	2.46	102
	Total Rajasthan	7767	2592	2589	66.04	2752
	UP	Anpara TPS	1630	1062	747	19.00
Obra TPS		1382	511	518	11.20	467
Paricha TPS		890	239	298	6.10	254
Panki TPS		210	105	130	2.50	104
Harduaganj TPS		665	36	36	0.70	29
Tanda TPS (NTPC)		440	191	163	4.71	196
Roza TPS (IPP)		1200	810	824	18.79	783
Anpara-C (IPP)		1200	310	242	7.01	292
Bajaj Energy Pvt.Ltd(IPP) TPS		450	230	277	5.52	230
Thermal (Total)		8067	3494	3235	75.53	3147
Vishnuparyag HPS (IPP)		400	436	436	10.43	435
Other Hydro		527	97	0	2.51	105
Cogeneration		981	50	50	1.20	50
Total UP		9975	4077	3721	89.67	3302
Uttarakhand	Total Hydro	1303	784	770	18.32	763
	Total Uttarakhand	1303	784	770	18.32	763
Delhi	Rajghat TPS	135	49	47	1.32	55
	Delhi Gas Turbine	282	153	195	4.11	171
	Pragati Gas Turbine	330	137	141	3.46	144
	Rithala GPS	108	0	0	0.00	0
	Bawana GPS	677	220	218	5.60	234
	Badarpur TPS (NTPC)	705	585	415	9.84	410
	Thermal (Total)	2237	1144	1016	24.32	1013
	Total Delhi	2237	1144	1016	24.32	1013
HP	Baspa HPS (IPP)	330	330	330	7.92	330
	Malana HPS (IPP)	86	106	107	2.54	106
	Other Hydro	589	629	619	14.99	624
	Total HP	1005	1065	1056	25	1060
J & K	Baglihar HPS (IPP)	450	438	438	10.50	437
	Other Hydro	323	185	210	4.73	197
	Gas/Diesel/Others	183	0	0	0.00	0
	Total J & K	956	623	648	15.23	635
Total State Control Area Generation		32017	15637	14699	357.21	14449
J. Net Inter Regional Exchange (Import (+ve)/Export (-ve))			2285	2881	74.42	3101
Total Regional Availability(Gross)		54353	36909	33792	809.40	33290

IV. Total Hydro Generation:

Regional Entities Hydro	10364	9894	8283	197.01	8209
State Control Area Hydro	5368	3192	3041	86.84	3183
Total Regional Hydro	15731	13086	11324	283.84	11392

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	250	200	400	0	7.57	0.00	7.57
Gwalior-Agra (D/C)	364	655	822	0	14.83	0.00	14.83
Zerda-Kankroli	0	0	0	0	0.00	0.00	0.00
Zerda-Bhinmal	126	198	258	0	3.07	0.00	3.07
Malanpur-Auraiya	-78	-20	0	114	0.00	0.68	-0.68
Badod-Kota/Morak	12	75	58	0	1.46	0.00	1.46
Mundra-Mohindergarh(HVDC)	596	576	598	0	14.03	0.00	14.03
Sub Total WR	1270	1684			40.96	0.68	40.27
Pusauli Bypass	-54	-9	109	79	0.74	0.49	0.25
MZP- GKP (D/C)	460	546	744	0	14.06	0.00	14.06
Patna-Balia(D/C)	243	166	359	0	6.36	0.00	6.36
B'Sharif-Balia (D/C)	162	140	353	0	5.72	0.00	5.72
Barh - Balia(D/C)	0	169	214	0	1.06	0.00	1.06
Pusauli-Balia	30	0	40	0	0.58	0.00	0.58
Gayaa-Fatehpur (765 Kv)	80	58	235	0	3.73	0.00	3.73
Pusauli-Sahupuri	139	152	166	0	3.27	0.00	3.27
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-45	-25	0	48	0.00	0.89	-0.89
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sub Total ER	1015	1197			35.52	1.38	34.15
Total IR Exch	2285	2881			76.48	2.06	74.42

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
23.98	3.71	27.69	1.61	19.82	19.74	2.91	2.47	-2.45

Total IR Schedule (MU)			Total IR Actual (MU)			Net IR UI (MU)		
Through ER	Through WR Includ Mndra	Total	Through ER	Through WR	Total	Through ER	Through WR	Total
51.51	29.97	81.47	34.15	40.27	74.42	-17.36	10.31	-7.06

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	0.10	1.10	90.70	89.70	56.80	9.20

<----- 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				
50.62	17.05	49.46	19.24	50.02	0.20	0.14	50.56	49.85

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	412	05:03	405	10:20	0.0	0.0	0.0	0.0
Gorakhpur	400	429	06:49	411	18:48	0.0	0.0	82.9	0.0
Bareilly	400	422	17:05	400	22:24	0.0	0.0	0.6	0.0
Kanpur	400	423	04:58	407	20:38	0.0	0.0	7.4	0.0
Dadri	400	415	17:04	401	22:14	0.0	0.0	0.0	0.0
Ballabgarh	400	420	02:16	404	22:23	0.0	0.0	0.0	0.0
Bawana	400	417	04:30	401	22:19	0.0	0.0	0.0	0.0
Bassi	400	434	04:32	414	19:48	0.0	0.0	85.2	12.1
Hissar	400	409	17:01	395	19:50	0.0	0.0	0.0	0.0
Moga	400	410	08:04	396	19:48	0.0	0.0	0.0	0.0
Abdullapur	400	411	17:03	398	11:16	0.0	0.0	0.0	0.0
Nalagarh	400	409	17:03	394	11:00	0.0	0.0	0.0	0.0
Kishenpur	400	412	08:04	397	19:52	0.0	0.0	0.0	0.0
Wagoora	400	412	08:05	388	20:10	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 (m ³ /s)	Usage (m ³ /s)
Bhakra	513.59	445.62	486.06	619.14	502.79	1219.07	1050.61	651.29
Pong	426.72	384.05	404.29	320.26	418.18	807.91	755.61	460.69
Tehri	829.79	740.04	807.40	750.00	818.65	982.26	505.16	206.00
Koteshwar	612.50	598.50	599.20	0.30	NA	NA	208.00	169.00
Chamera-I	760.00	748.75	NA	NA	NA	NA	320.29	346.67
Rihand	268.22	252.98	259.69	288.00	260.70	343.60	NA	NA
RPS	352.80	343.81	350.98	NA	NA	NA	NA	NA
Jawahar Sagar	298.70	295.78	278.95	NA	NA	NA	107.52	NA
RSD	527.91	487.91	501.54	NA	511.00	NA	326.07	169.63

* NA: Not Available

IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

XI. Weather Conditions For 12.08.2012 :

1. Normal weather 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 : 12.08.2012

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER