

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरसिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 17.08.2012

Date of Reporting : 18.08.2012

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
36175	5160	41335	49.85	33615	3207	36821	50.00	830.7	97.27

* 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	52.85	19.37		72.21	109.77	112.06	2.29	184.27	22.32
Haryana	66.63	0.86		67.49	65.30	66.33	1.04	133.82	19.48
Rajasthan	63.47	1.92	8.72	74.11	37.73	36.89	-0.84	111.00	0.47
Delhi	30.82			30.82	71.02	64.88	-6.13	95.70	0.03
UP	77.80	16.42	1.20	95.42	121.52	122.38	0.85	217.79	46.41
Uttarakhand		13.00		13.00	11.79	11.98	0.19	24.98	6.85
HP		25.28		25.28	0.37	-0.46	-0.83	24.82	0.00
J & K		15.28	0.00	15.28	18.87	17.20	-1.67	32.48	1.70
Chandigarh				0.00	6.11	5.84	-0.27	5.84	0.00
Total	291.57	92.13	9.92	393.62	442.47	437.10	-5.38	830.71	97.27

* 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	7788	1674	103	1818	7788	1050	26	1837	49.06	
Haryana	5597	944	24	1183	5102	794	-53	876	23.01	
Rajasthan	5182	168	64	-280	4249	0	124	-152	-4.55	
Delhi	4297	0	-291	281	3401	7	-242	98	7.45	
UP	9229	2055	333	890	9815	1026	-101	2000	31.87	
Uttarakhand	1150	220	137	-49	1065	330	11	-24	0.42	
HP	1010	0	-92	-1077	921	0	-57	-1178	-26.17	
J&K	1669	100	72	-105	1059	0	-245	-136	-4.16	
Chandigarh	254	0	-13	39	214	0	-11	0	0.64	
Total	36175	5160	336	2699	33615	3207	-549	3321	77.55	

* 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	1599	1540	1937	28.49	1187	38.16	-9.66
Rihand I STPS	1000	333	455	359	8.06	336	7.95	0.11
Rihand II STPS	1000	697	986	705	16.83	701	16.60	0.23
Rihand III STPS	500	0	0	0	0.00	0		0.00
Dadri I STPS	840	614	829	616	11.08	462	14.46	-3.38
Dadri II STPS	980	729	912	682	17.25	719	17.32	-0.07
Unchahar I TPS	420	383	413	406	8.91	371	8.98	-0.06
Unchahar II TPS	420	383	431	375	8.79	366	8.76	0.02
Unchahar III TPS	210	192	217	182	4.39	183	4.35	0.03
ISTPP (Jhajhar)	1000	459	282	311	4.38	182	7.95	-3.57
Dadri GPS	830	754	711	705	15.41	642	15.47	-0.05
Anta GPS	419	238	195	163	4.48	187	4.57	-0.09
Auraiya GPS	663	541	439	305	8.22	343	8.52	-0.30
Sub Total (A)	10282	6923	7410	6746	136.29	5679	153.08	-16.79
B. NPC								
NAPS	440	260	296	299	6.18	257	6.24	-0.07
RAPS- B	440	385	425	429	9.21	384	9.24	-0.03
RAPS- C	440	410	456	467	10.01	417	9.84	0.17
Sub Total (B)	1320	1055	1177	1195	25.40	1058	25.32	0.08
C. NHPC								
Chamera I HPS	540	534	540	540	12.88	537	12.81	0.06
Chamera II HPS	300	276	200	301	6.32	263	6.65	-0.33
Chamera III HPS	231	231	234	233	5.56	231	5.53	0.02
Bairasuil HPS	180	182	100	120	2.73	114	2.73	0.00
Salai-HPS	690	661	659	660	15.73	656	15.83	-0.09
Tanakpur-HPS	94	94	95	95	2.27	94	2.24	0.02
Uri-HPS	480	354	315	300	8.72	363	8.52	0.20
Dhauliganga-HPS	280	277	279	278	6.62	276	6.72	-0.11
Duihasti-HPS	390	387	407	404	9.09	379	9.06	0.03
Sewa-II HPS	120	80	85	76	0.98	41	1.03	-0.04
Sub Total (C)	3305	3074	2914	3007	70.88	2954	71.12	-0.24
D.NJPC								
Natpha Jhakri	1500	1605	1621	1620	38.64	1610	38.52	0.12
Sub Total (D)	1500	1605	1621	1620	38.64	1610	38.52	0.12
E. THDC								
Tehri HPS	1000	650	887	886	9.08	378	9.00	0.08
Koteshwar HPS	400	300	300	169	2.61	109	2.70	-0.09
Sub Total (E)	1400	950	1187	1055	11.70	487	11.70	0.00
F. BBMB								
Bhakra HPS	1480	850	1100	678	20.84	868	20.41	0.43
Dehar HPS	990	606	825	620	14.97	624	14.55	0.42
Pong HPS	396	275	366	306	6.86	286	5.01	1.85
Sub Total (F)	2866	1731	2291	1604	42.67	1778	39.96	2.71
G. IPP(s)/JV(s)								
ADHPL HPS(IPP)	192	0	217	208	4.64	193	4.51	0.12
KWHEP HPS(IPP)	1000	0	1200	1200	28.54	1189	28.66	-0.12
Malana Stg-II HPS	100	0	107	104	2.52	105	2.20	0.32
Shree Cement TPS	300	0	131	139	3.13	130	3.50	-0.37
Budhil HPS(IPP)	70	0	40	70	1.52	63		1.52
Sub Total (G)	1662	0	1695	1721	40.35	1681	38.87	1.47
H. Total Regional Entities (A-G)	22336	15339	18295	16948	365.92	15247	378.57	-12.65

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	1252	1250	27.88	1162	
	Guru Nanak Dev TPS(Bhatinda)	440	204	203	4.37	182	
	Guru Hargobind Singh TPS(L.mbt)	920	926	904	20.60	859	
	Thermal (Total)	2620	2382	2357	52.85	2202	
	Total Hydro	1148	828	767	19.37	807	
	Total Punjab	3768	3210	3124	72.21	3009	
Haryana	Panipat TPS	1367	839	848	25.81	1076	
	DCRTPP (Yamuna nagar)	600	0	0	0.00	0	
	Faridabad GPS (NTPC)	432	187	178	4.55	189	
	RGTPP (kheadar) (IPP)	1200	1112	1116	27.00	1125	
	Magnum Diesel (IPP)	25	0	0	0.00	0	
	Jhajjar(CLP)	1320	370	367	9.28	387	
	Thermal (Total)	4944	2508	2509	66.63	2776	
	Total Hydro	62	22	21	0.86	36	
	Total Haryana	5006	2530	2530	67.49	2812	
Rajasthan	kota TPS	1240	875	517	17.87	745	
	suratgarh TPS	1500	878	634	19.01	792	
	Chabra TPS	500	411	225	6.68	278	
	Dholpur GPS	330	117	85	2.35	98	
	Ramgarh GPS	111	66	67	1.66	69	
	RAPS A (NPC)	300	190	198	3.84	160	
	Barsingar (NLC)	250	112	0	2.24	94	
	Giral LTPS	250	0	0	0.00	0	
	Rajwest LTPS (IPP)	540	417	359	9.81	409	
	VSLP LTPS (IPP)	135	0	0	0.00	0	
	Thermal (Total)	5156	3066	2085	63.47	2644	
	Total Hydro	550	126	48	1.92	80	
	Wind power	1843	104	218	6.12	255	
	Biomass	91	25	25	0.60	25	
	Solar	128	0	0	0.08	4	
	Renewable/Others (Total)	2062	129	243	8.72	363	
	Total Rajasthan	7767	3321	2376	74.11	3088	
	UP	Anpara TPS	1630	600	636	15.80	658
		Obra TPS	1382	315	311	7.70	321
		Paricha TPS	890	528	554	12.80	533
Panki TPS		210	59	36	1.20	50	
Harduaganj TPS		665	0	0	0.00	0	
Tanda TPS (NTPC)		440	193	193	4.80	200	
Roza TPS (IPP)		1200	824	824	19.48	812	
Anpara-C (IPP)		1200	436	451	10.91	455	
Bajaj Energy Pvt.Ltd(IPP) TPS		450	258	230	5.11	213	
Thermal (Total)		8067	3213	3235	77.80	3242	
Vishnuparyag HPS (IPP)		400	436	436	10.47	436	
Other Hydro		527	258	0	5.95	248	
Cogeneration		981	50	50	1.20	50	
Total UP		9975	3957	3721	95.42	3540	
Uttarakhand		Total Hydro	1303	542	544	13.00	542
	Total Uttarakhand	1303	542	544	13.00	542	
Delhi	Raighat TPS	135	49	49	1.15	48	
	Delhi Gas Turbine	282	140	144	3.83	160	
	Pragati Gas Turbine	330	282	266	6.59	275	
	Rithala GPS	108	21	21	0.64	26	
	Bawana GPS	677	229	233	5.59	233	
	Badarpur TPS (NTPC)	705	685	580	13.02	543	
	Thermal (Total)	2237	1406	1293	30.82	1284	
	Total Delhi	2237	1406	1293	30.82	1284	
HP	Baspa HPS (IPP)	330	330	330	7.92	330	
	Malana HPS (IPP)	86	108	107	2.56	107	
	Other Hydro	589	618	620	14.80	617	
	Total HP	1005	1056	1057	25	1053	
J & K	Baglihar HPS (IPP)	450	442	436	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	646	15.28	637	
Total State Control Area Generation		32017	16649	15291	393.62	15965	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			3307	2551	70.39	2933	
Total Regional Availability(Gross)		54353	38251	34790	829.93	34144	

IV. Total Hydro Generation:

Regional Entities Hydro	10364	9537	8798	199.59	8316
State Control Area Hydro	5368	3459	3083	92.13	3403
Total Regional Hydro	15731	12996	11881	291.72	11719

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	500	500	0	11.25	0.00	11.25
Gwalior-Agra (D/C)	540	483	938	0	15.40	0.00	15.40
Zerda-Kankroli	-92	0	0	216	0.00	1.94	-1.94
Zerda-Bhinmal	17	-123	69	283	0.00	2.44	-2.44
Malanpur-Auraiya	-67	-71	0	128	0.00	1.21	-1.21
Badod-Kota/Morak	10	15	40	87	0.00	0.10	-0.10
Mundra-Mohindergarh(HVDC)	0	0	0	0	0.00	0.00	0.00
Sub Total WR	908	804			26.65	5.69	20.96
Pusauli Bypass	200	32	200	0	2.95	0.00	2.95
MZP- GKP (D/C)	796	642	796	0	16.34	0.00	16.34
Patna-Balia(D/C)	653	449	653	0	12.62	0.00	12.62
B'Sharif-Balia (D/C)	453	300	493	0	9.26	0.00	9.26
Barh - Balia(D/C)	0	0	272	0	0.27	0.00	0.27
Pusauli-Balia	0	0	13	0	0.01	0.00	0.01
Gaya-Fatehpur (765 Kv)	197	175	363	0	5.65	0.00	5.65
Pusauli-Sahupuri	146	174	180	0	3.37	0.00	3.37
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	2399	1747			50.47	1.04	49.43
Total IR Exch	3307	2551			77.11	6.73	70.39

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
32.33	3.72	36.04	8.73	21.78	4.79	5.57	2.50	-2.50
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
52.06	27.71	79.78	49.43	20.96	70.39	-2.63	-6.76	-9.39

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	0.00	8.20	97.76	88.57	59.79	3.23
<----- Frequency (Hz) ----->				Average Frequency	Frequency Variation Index	Std. Dev.	Frequency in 15 Min Block	
Maximum		Minimum					MAX	MIN
Freq	Time	Freq	Time	Hz			(Hz)	(Hz)
50.47	7.18	49.54	20.09	50.03	0.25	0.13	50.37	49.70

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	411	12:59	398	22:02	0.0	0.0	0.0	0.0
Gorakhpur	400	433	13:08	403	22:45	0.0	0.0	51.5	7.6
Bareilly	400	422	6:04	385	11:11	0.0	0.5	0.3	0.0
Kanpur	400	422	13:01	396	11:11	0.0	0.0	0.7	0.0
Dadri	400	414	6:03	393	11:10	0.0	0.0	0.0	0.0
Ballabhgarh	400	420	6:02	396	11:08	0.0	0.0	0.0	0.0
Bawana	400	416	6:01	396	11:10	0.0	0.0	0.0	0.0
Bassi	400	430	23:03	410	11:00	3.7	3.7	59.9	0.0
Hissar	400	412	6:03	394	11:17	0.0	0.0	0.0	0.0
Moga	400	413	23:27	393	14:32	0.0	0.0	0.0	0.0
Abdullapur	400	414	4:14	397	11:08	0.0	0.0	0.0	0.0
Nalagarh	400	414	6:02	390	14:30	0.0	0.0	0.0	0.0
Kishenpur	400	414	6:04	396	14:32	0.0	0.0	0.0	0.0
Wagoora	400	414	6:05	388	14:29	0.0	3.4	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	487.91	671.08	507.08	1411.35	1190.58	658.37
Pong	426.72	384.05	405.41	352.07	423.07	1035.89	737.12	463.18
Tehri	829.79	740.04	812.20	129.00	818.65	982.26	547.36	209.00
Koteshwar	612.50	598.50	599.50	0.30	NA	NA	209.00	174.00
Chamera-I	760.00	748.75	756.61	12.29	NA	NA	344.68	349.06
Rihand	268.22	252.98	254.02	38.60	257.04	160.70	NA	NA
RPS	352.80	343.81	349.95	NA	NA	NA	NA	NA
Jawahar Sagar	298.70	295.78	298.21	NA	NA	NA	NA	NA
RSD	527.91	487.91	502.30	NA	517.00	NA	333.46	398.28

* NA: Not Available

IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

XI. Weather Conditions For 17.08.2012 :

1: Scattered Rain in Eastern UP.

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 : 17.08.2012

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER