

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरसिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 15.08.2012

Date of Reporting : 16.08.2012

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
34526	2474	36999	49.81	32678	2188	34866	50.02	772.6	53.24

* 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	52.31	14.52		66.83	114.10	115.15	1.04	181.98	14.38
Haryana	47.92	0.76		48.68	72.23	72.16	-0.07	120.84	1.46
Rajasthan	51.13	2.77	9.42	63.32	41.87	37.65	-4.22	100.97	0.00
Delhi	16.67			16.67	63.42	57.17	-6.25	73.84	0.00
UP	90.49	13.19	1.20	104.88	109.00	105.90	-3.10	210.78	32.28
Uttarakhand		17.93		17.93	9.23	9.42	0.19	27.34	2.17
HP		24.92		24.92	-1.40	-3.94	-2.54	20.98	0.00
J & K		15.28	0.00	15.28	20.89	15.82	-5.07	31.10	2.95
Chandigarh				0.00	5.88	4.77	-1.11	4.77	0.00
Total	258.52	89.37	10.62	358.51	435.22	414.09	-21.13	772.60	53.24

* 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	8095	560	108	2054	7250	1050	-56	2090	55.51	
Haryana	5141	144	-32	896	5199	12	123	940	21.49	
Rajasthan	4523	0	-57	17	4156	0	-221	-182	-0.36	
Delhi	3423	0	218	2	3196	0	-572	108	5.72	
UP	9375	1460	143	1037	9419	1026	-277	1882	24.95	
Uttarakhand	1243	160	32	-57	1314	0	123	-79	-1.65	
HP	868	0	-172	-1127	874	0	-69	-1250	-26.46	
J&K	1628	150	-68	-34	1076	100	-240	-34	-1.54	
Chandigarh	230	0	-15	33	194	0	-11	-12	0.64	
Total	34526	2474	157	2821	32678	2188	-1199	3464	78.29	

* 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	1811	2020	1954	42.01	1750	42.11	-0.10
Rihand I STPS	1000	328	432	360	7.53	314	7.50	0.03
Rihand II STPS	1000	695	981	714	15.74	656	15.78	-0.04
Rihand III STPS	500		0	0	0.00	0		0.00
Dadri I STPS	840	625	610	615	13.66	569	14.04	-0.38
Dadri II STPS	980	744	696	910	16.43	685	16.82	-0.39
Unchahar I TPS	420	356	432	382	8.05	335	8.17	-0.12
Unchahar II TPS	420	357	440	371	7.74	322	7.85	-0.11
Unchahar III TPS	210	178	220	192	3.87	161	3.88	-0.02
ISTPP (Jhajjar)	1000	420	344	317	7.19	300	7.56	-0.37
Dadri GPS	830	764	456	494	11.29	471	11.44	-0.15
Anta GPS	419	261	204	191	4.58	191	4.50	0.07
Auraiya GPS	663	608	297	255	6.38	266	6.46	-0.08
Sub Total (A)	10282	7146	7132	6755	144.46	6019	146.11	-1.65
B. NPC								
NAPS	440	259	294	300	6.24	260	6.22	0.02
RAPS- B	440	381	421	426	9.24	385	9.14	0.10
RAPS- C	440	410	470	463	9.87	411	9.84	0.03
Sub Total (B)	1320	1050	1185	1189	25.35	1056	25.20	0.15
C. NHPC								
Chamera I HPS	540	534	540	540	12.12	505	12.01	0.12
Chamera II HPS	300	300	301	302	7.10	296	7.17	-0.08
Chamera III HPS	231	231	234	233	5.53	231	5.55	-0.01
Bairasuil HPS	180	182	182	60	3.01	125	3.08	-0.07
Salal-HPS	690	661	658	663	15.75	656	15.82	-0.07
Tanakpur-HPS	94	94	95	94	2.24	93	2.24	-0.01
Uri-HPS	480	381	344	403	8.56	357	8.66	-0.10
Dhauliganga-HPS	280	277	277	282	6.67	278	6.66	0.01
Dulhasi-HPS	390	387	407	398	8.72	363	8.75	-0.04
Sewa-II HPS	120	80	85	0	1.09	46	1.17	-0.07
Sub Total (C)	3305	3125	3123	2975	70.78	2949	71.10	-0.33
D. NJPC								
Nathpa Jhakri	1500	1605	1621	1617	38.62	1609	38.52	0.10
Sub Total (D)	1500	1605	1621	1617	38.62	1609	38.52	0.10
E. THDC								
Tehri HPS	1000	1020	1028	441	9.21	384	9.50	-0.29
Koteshwar HPS	400	300	301	164	2.61	109	2.75	-0.14
Sub Total (E)	1400	1320	1329	605	11.82	493	12.25	-0.43
F. BBMB								
Bhakra HPS	1480	837	1258	676	20.08	837	20.09	-0.01
Dehar HPS	990	608	825	630	14.81	617	14.59	0.22
Pong HPS	396	251	366	246	6.12	255	5.01	1.11
Sub Total (F)	2866	1695	2449	1552	41.01	1709	39.68	1.33
G. IPP(s)/JV(s)								
ADHPL HPS(IPP)	192	0	229	226	5.44	227	4.27	1.17
KWHPEP HPS(IPP)	1000	0	1200	1200	28.62	1192	27.41	1.20
Malana Stg-II HPS	100	0	102	101	2.45	102	2.20	0.25
Shree Cement TPS	300	0	138	142	3.68	153	5.57	-1.89
Budhil HPS(IPP)	70	0	71	70	1.66	69		1.66
Sub Total (G)	1662	0	1740	1739	41.83	1743	39.45	2.38
H. Total Regional Entities (A-G)	22336	15942	18579	16432	373.86	15578	372.31	1.55

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	1257	27.70	1154
	Guru Nanak Dev TPS(Bhatinda)	440	206	203	4.32	180
	Guru Hargobind Singh TPS(L.mbt)	920	927	948	20.29	845
	Thermal (Total)	2620	2385	2408	52.31	2180
	Total Hydro	1148	708	527	14.52	605
	Total Punjab	3768	3093	2935	66.83	2785
Haryana	Panipat TPS	1367	1038	876	24.44	1019
	DCRTPP (Yamuna nagar)	600	0	0	0.00	0
	Faridabad GPS (NTPC)	432	191	283	5.53	230
	RGTPP (kheadar) (IPP)	1200	745	763	17.94	748
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	1320	0	0	0.00	0
	Thermal (Total)	4944	1974	1922	47.92	1996
	Total Hydro	62	33	27	0.76	32
	Total Haryana	5006	2007	1949	48.68	2028
	Rajasthan	kota TPS	1240	453	749	13.48
suratgarh TPS		1500	631	555	13.61	567
Chabra TPS		500	215	374	6.10	254
Dholpur GPS		330	116	123	2.72	114
Ramgarh GPS		111	53	56	1.51	63
RAPS A (NPC)		300	190	190	4.52	188
Barsingsar (NLC)		250	113	112	2.26	94
Giral LTPS		250	0	0	0.00	0
Rajwest LTPS (IPP)		540	351	230	6.94	289
VSLLP LTPS (IPP)		135	0	0	0.00	0
Thermal (Total)		5156	2122	2389	51.13	2131
Total Hydro		550	177	82	2.77	115
Wind power		1843	176	299	5.90	246
Biomass		91	31	31	0.73	31
Solar		128	0	0	0.02	1
Renewable/Others (Total)		2062	207	330	9.42	392
Total Rajasthan		7767	2506	2801	63.32	2638
UP		Anpara TPS	1630	1050	870	23.30
	Obra TPS	1382	455	454	10.80	450
	Paricha TPS	890	548	545	13.00	542
	Panki TPS	210	113	153	3.00	125
	Harduaganj TPS	665	0	0	0.00	0
	Tanda TPS (NTPC)	440	192	192	4.80	200
	Roza TPS (IPP)	1200	824	824	19.43	810
	Anpara-C (IPP)	1200	521	452	11.19	466
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	197	212	4.98	207
	Thermal (Total)	8067	3900	3702	90.49	3770
	Vishnuparyag HPS (IPP)	400	436	436	10.46	436
	Other Hydro	527	210	0	2.73	114
	Cogeneration	981	50	50	1.20	50
	Total UP	9975	4596	4188	104.88	3934
	Uttarakhand	Total Hydro	1303	731	767	17.93
Total Uttarakhand		1303	731	767	17.93	747
Delhi	Rajghat TPS	135	49	45	1.17	49
	Delhi Gas Turbine	282	81	152	2.62	109
	Pragati Gas Turbine	330	139	141	3.12	130
	Rithala GPS	108	0	0	0.00	0
	Bawana GPS	677	0	0	0.00	0
	Badarpur TPS (NTPC)	705	455	480	9.76	407
	Thermal (Total)	2237	724	818	16.67	695
	Total Delhi	2237	724	818	16.67	695
HP	Baspa HPS (IPP)	330	330	330	7.92	330
	Malana HPS (IPP)	86	107	107	2.56	107
	Other Hydro	589	606	609	14.44	602
	Total HP	1005	1043	1046	25	1038
J & K	Baglihar HPS (IPP)	450	440	434	10.55	440
	Other Hydro	323	185	210	4.73	197
	Gas/Diesel/Others	183	0	0	0.00	0
	Total J & K	956	625	644	15.28	637
Total State Control Area Generation		32017	15325	15148	358.51	14502
J. Net Inter Regional Exchange (Import (+ve)/Export (-ve))			2905	2584	65.57	2732
Total Regional Availability(Gross)		54353	36809	34164	797.94	32812

IV. Total Hydro Generation:

Regional Entities Hydro	10364	10053	8276	198.72	8280
State Control Area Hydro	5368	3527	3093	89.37	3288
Total Regional Hydro	15731	13580	11369	288.10	11568

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	150	500	0	4.91	0.00	4.91
Gwalior-Agra (D/C)	450	650	777	0	14.39	0.00	14.39
Zerda-Kankrol	0	0	0	0	0.00	0.00	0.00
Zerda-Bhinmal	87	-118	107	304	0.00	1.61	-1.61
Malanpur-Auraiya	-64	-27	0	97	0.00	0.86	-0.86
Badod-Kota/Morak	38	9	117	71	1.79	0.00	1.79
Mundra-Mohindergarh(HVDC)	576	545	584	0	14.37	0.00	14.37
Sub Total WR	1337	1209			35.46	2.47	32.99
Pusauli Bypass	-91	-78	36	185	0.02	2.00	-1.98
MZP- GKP (D/C)	586	580	726	0	14.10	0.00	14.10
Patna-Balia(D/C)	237	310	354	0	7.10	0.00	7.10
B'Sharif-Balia (D/C)	289	288	344	0	6.39	0.00	6.39
Barh - Balia(D/C)	239	0	254	0	0.98	0.00	0.98
Pusauli-Balia	29	0	0	84	0.00	0.16	-0.16
Gayaa-Fatehpur (765 Kv)	189	130	191	0	3.56	0.00	3.56
Pusauli-Sahupuri	136	170	180	0	3.62	0.00	3.62
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	1568	1375			35.77	3.20	32.58
Total IR Exch	2905	2584			71.23	5.67	65.57

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
22.79	3.74	26.53	7.21	25.87	5.11	2.74	2.49	-2.47
Total IR Schedule (MU)								
Through ER	Through WR	Total	Through ER	Through WR	Total	Through ER	Through WR	Total
41.34	37.69	79.03	32.58	32.99	65.57	-8.77	-4.70	-13.46

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	0.30	4.70	78.20	73.80	57.30	21.50

<----- 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				
50.49	8.34	49.41	19.50	50.04	0.41	0.20	50.50	49.73

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	6:13	397	19:48	0.0	0.0	0.0	0.0
Gorakhpur	400	436	6:17	403	19:37	0.0	0.0	52.4	7.2
Bareilly	400	423	6:05	399	19:49	0.0	0.0	1.9	0.0
Kanpur	400	424	6:13	399	19:47	0.0	0.0	4.4	0.0
Dadri	400	417	6:02	401	19:43	0.0	0.0	0.0	0.0
Ballabgarh	400	423	6:12	401	19:47	0.0	0.0	6.7	0.0
Bawana	400	420	6:03	400	19:47	0.0	0.0	0.0	0.0
Bassi	400	435	4:04	408	20:28	0.0	0.0	81.1	12.7
Hissar	400	415	4:04	394	19:45	0.0	0.0	0.0	0.0
Moga	400	415	4:04	392	19:49	0.0	0.0	0.0	0.0
Abdullapur	400	415	4:42	397	19:49	0.0	0.0	0.0	0.0
Nalagarh	400	414	4:05	395	14:43	0.0	0.0	0.0	0.0
Kishenpur	400	414	7:18	394	19:46	0.0	0.0	0.0	0.0
Wagoora	400	413	7:18	382	19:37	0.0	10.9	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	487.06	811.48	505.36	1325.82	1115.77	638.69
Pong	426.72	384.05	405.01	344.07	421.69	961.02	994.60	415.32
Tehri	829.79	740.04	810.46	811.20	818.65	982.26	618.69	214.00
Koteshwar	612.50	598.50	599.80	0.45	NA	NA	159.00	133.00
Chamera-I	760.00	748.75	756.61	12.00	NA	NA	383.03	329.41
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	501.72	NA	509.17	NA	319.44	309.93

* NA: Not Available

IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

XI. Weather Conditions For 15.08.2012 :

1: Scattered Rain 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 : 15.08.2012

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER