

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पारसिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 17.09.2012
Date of Reporting : 18.09.2012

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
32863	3250	36113	50.13	28760	850	29610	50.61	720.9	24.98

* 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 * (MU)
Punjab	20.08	8.32		28.40	94.18	89.65	-4.53	118.04	1.80
Haryana	48.64	0.70		49.34	64.99	63.83	-1.15	113.17	0.28
Rajasthan	72.72	2.10	7.89	82.71	49.63	48.28	-1.36	130.98	0.00
Delhi	19.71			19.71	69.59	65.65	-3.95	85.35	0.03
UP	76.10	15.07	0.48	91.64	100.70	96.50	-4.19	188.15	21.15
Uttarakhand		19.93		19.93	12.30	8.03	-4.26	27.97	0.00
HP		17.08		17.08	9.15	5.53	-3.62	22.60	0.02
J & K		15.31	0.00	15.31	18.15	14.58	-3.58	29.88	1.70
Chandigarh				0.00	5.68	4.75	-0.93	4.75	0.00
Total	237.24	78.50	8.37	324.11	424.37	396.80	-27.57	720.90	24.98

* 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	5578	600	53	1561	4618	0	-741	2184	48.65
Haryana	5124	693	-29	506	4419	0	74	486	13.82
Rajasthan	5970	0	-98	330	5282	0	21	169	4.16
Delhi	3811	7	-459	384	3141	0	-171	246	7.85
UP	7953	1850	-270	498	8314	850	-212	733	13.44
Uttarakhand	1445	0	10	-19	1108	0	-199	-93	-1.40
HP	1139	0	-52	-829	755	0	-287	-359	-14.30
J&K	1614	100	-11	-237	973	0	-213	-389	-7.57
Chandigarh	230	0	-25	32	150	0	-49	-25	0.60
Total	32863	3250	-882	2226	28760	850	-1776	2951	65.24

* 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	1425	1557	1331	28.96	1207	30.36	-1.40
	Rihand I STPS	1000	806	995	172	15.43	643	16.29	-0.86
	Rihand II STPS	1000	865	1029	683	16.41	684	17.23	-0.83
	Rihand III STPS	500		0	0	0.00	0		0.00
	Dadri I STPS	840	600	462	299	8.32	347	9.48	-1.17
	Dadri II STPS	980	970	928	681	16.55	690	18.46	-1.91
	Unchahar I TPS	420	197	148	165	3.32	138	3.45	-0.13
	Unchahar II TPS	420	400	305	310	6.69	279	6.76	-0.07
	Unchahar III TPS	210	91	153	0	1.46	61	1.53	-0.07
	ISTPP (Jhajihar)	1000	950	457	356	8.65	361	8.99	-0.34
	Dadri GPS	830	796	348	447	8.01	334	8.28	-0.27
	Anta GPS	419	393	201	176	4.79	200	4.91	-0.12
	Auraiya GPS	663	419	236	262	5.65	235	5.61	0.04
	Sub Total (A)		10282	7913	6819	4882	124.24	5177	131.37
B. NPC	NAPS	440	258	302	307	6.35	264	6.19	0.15
	RAPS- B	440	407	449	456	9.81	409	9.77	0.04
	RAPS- C	440	410	463	468	9.97	415	9.84	0.13
	Sub Total (B)		1320	1075	1214	1231	26.12	1088	25.80
C. NHPC	Chamera I HPS	540	534	540	182	8.53	356	9.15	-0.62
	Chamera II HPS	300	292	300	190	6.33	264	6.44	-0.11
	Chamera III HPS	231	199	229	205	4.72	197	4.73	0.00
	Bairasuil HPS	180	182	180	60	2.53	105	2.44	0.09
	Salal-HPS	690	665	661	661	15.86	661	15.96	-0.10
	Tanakpur-HPS	94	94	93	82	2.11	88	2.24	-0.13
	Uri-HPS	480	468	478	421	10.59	441	10.97	-0.38
	Dhauliganga-HPS	280	277	281	278	6.66	278	6.73	-0.07
	Dulhasti-HPS	390	376	404	354	8.92	372	8.92	0.00
	Sewa-II HPS	120	80	81	40	1.25	52	1.18	0.07
	Sub Total (C)		3305	3165	3247	2473	67.51	2813	68.77
D.NJPC	Nathpa Jhakri	1500	1605	1516	1517	36.17	1507	36.00	0.17
	Sub Total (D)		1500	1605	1516	1517	36.17	1507	0.17
E. THDC	Tehri HPS	1000	1050	1064	1008	23.11	963	23.89	-0.78
	Sub Total (E)		1400	1436	1451	1266	31.09	1295	31.99
F. BBMB	Bhakra HPS	1480	721	1260	469	17.35	723	17.31	0.04
	Dehar HPS	990	616	660	640	14.77	615	14.78	-0.01
	Pong HPS	396	227	366	126	5.70	238	5.01	0.69
	Sub Total (F)		2866	1564	2286	1235	37.82	1576	37.10
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	170	133	2.73	114	2.31	0.42
	KWHEP HPS(IPP)	1000	0	826	705	17.31	721	16.45	0.86
	Malana Stg-II HPS	100	0	53	60	1.00	42	1.69	-0.69
	Shree Cement TPS	300	0	14	30	4.56	190	0.83	3.73
	Budhil HPS(IPP)	70	0	19	9	0.25	10	0.20	0.04
	Sub Total (G)		1662	0	1082	937	25.85	1077	21.48
H. Total Regional Entities (A-G)		22336	16757	17615	13541	348.79	14533	352.51	-3.72

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	210	510	7.22	301
	Guru Nanak Dev TPS(Bhatinda)	440	148	190	3.41	142
	Guru Hargobind Singh TPS(L.mbt)	920	504	553	9.45	394
	Thermal (Total)	2620	862	1253	20.08	836
	Total Hydro	1148	605	334	8.32	347
	Total Punjab	3768	1467	1587	28.40	1183
Haryana	Panipat TPS	1367	1084	946	25.17	1049
	DCRTPP (Yamuna nagar)	600	0	0	0.00	0
	Faridabad GPS (NTPC)	432	182	164	3.82	159
	RGTPP (khedar) (IPP)	1200	450	365	10.36	432
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	1320	352	331	9.29	387
	Thermal (Total)	4944	2068	1806	48.64	2027
	Total Hydro	62	31	30	0.70	29
	Total Haryana	5006	2099	1836	49.34	2056
	Rajasthan	kota TPS	1240	831	809	20.66
suratgarh TPS		1500	1043	972	23.74	989
Chabra TPS		500	447	434	8.65	360
Dholpur GPS		330	130	141	3.18	133
Ramgarh GPS		111	57	74	1.82	76
RAPS A (NPC)		300	179	179	4.15	173
Barsingsar (NLC)		250	0	0	0.00	0
Giral LTPS		250	0	0	0.00	0
Rajwest LTPS (IPP)		540	470	473	10.52	438
VSLP LTPS (IPP)		135	0	0	0.00	0
Thermal (Total)		5156	3157	3082	72.72	3030
Total Hydro		550	90	49	2.10	87
Wind power		1843	203	333	5.16	215
Biomass		91	22	22	0.52	22
Solar		128	0	0	0.11	5
Renewable/Others (Total)		2062	225	355	7.89	329
Total Rajasthan		7767	3472	3486	82.71	3446
UP	Anpara TPS	1630	941	1008	22.70	946
	Obra TPS	1382	377	401	9.70	404
	Paricha TPS	890	370	367	8.80	367
	Panki TPS	210	110	54	1.60	67
	Harduaganj TPS	665	225	31	4.00	167
	Tanda TPS (NTPC)	440	330	390	6.86	286
	Roza TPS (IPP)	1200	359	387	9.70	404
	Anpara-C (IPP)	1200	482	421	9.88	412
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	126	140	2.86	119
	Thermal (Total)	8067	3320	3199	76.10	3171
	Vishnuparyag HPS (IPP)	400	436	436	10.46	436
	Other Hydro	527	195	0	4.61	192
	Cogeneration	981	20	20	0.48	20
	Total UP	9975	3971	3655	91.64	3383
Uttarakhand	Total Hydro	1303	839	827	19.93	830
	Total Uttarakhand	1303	839	827	19.93	830
Delhi	Raighat TPS	135	96	94	2.22	93
	Delhi Gas Turbine	282	72	74	1.83	76
	Pragati Gas Turbine	330	298	263	6.72	280
	Rithala GPS	108	0	0	0.00	0
	Bawana GPS	677	0	0	0.00	0
	Badarpur TPS (NTPC)	705	510	310	8.93	372
	Thermal (Total)	2237	976	741	19.71	821
Total Delhi	2237	976	741	19.71	821	
HP	Baspa HPS (IPP)	330	298	0	3.78	157
	Malana HPS (IPP)	86	83	71	1.54	64
	Other Hydro	589	599	407	11.76	490
	Total HP	1005	980	478	17	712
J & K	Baglihar HPS (IPP)	450	442	438	10.58	441
	Other Hydro	323	185	210	4.73	197
	Gas/Diesel/Others	183	0	0	0.00	0
	Total J & K	956	627	648	15.31	638
Total State Control Area Generation		32017	14431	13258	324.11	13069
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			2411	2747	76.09	3170
Total Regional Availability(Gross)		54353	34457	29546	748.98	30772

IV. Total Hydro Generation:

Regional Entities Hydro	10364	9549	7389	193.63	8068
State Control Area Hydro	5368	3367	2366	78.50	2835
Total Regional Hydro	15731	12916	9755	272.13	10903

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	300	-200	500	400	3.82	1.82	2.00
Gwalior-Agra (D/C)	256	514	835	0	14.09	0.00	14.09
Zerda-Kankroli	-52	-54	39	79	0.00	0.68	-0.68
Zerda-Bhinmal	-43	-72	85	121	0.00	0.34	-0.34
Malanpur-Auraiya	-65	-36	0	117	0.00	0.62	-0.62
Badod-Kota/Morak	42	64	115	23	1.55	0.00	1.55
Mundra-Mohindergarh(HVDC)	570	523	572	0	11.60	0.00	11.60
Sub Total WR	1008	739			31.06	3.45	27.61
Pusauli Bypass	150	150	150	0	3.63	0.00	3.63
MZP- GKP (D/C)	466	770	1342	0	17.76	0.00	17.76
Patna-Balia(D/C)	306	373	470	0	9.31	0.00	9.31
B'Sharif-Balia (D/C)	278	365	565	0	10.25	0.00	10.25
Barh - Balia(D/C)	0	0	0	0	0.00	0.00	0.00
Pusauli-Balia	0	59	0	138	0.60	0.00	0.60
Gaya-Fatehpur (765 Kv)	82	161	301	0	4.23	0.00	4.23
Pusauli-Sahupuri	166	155	170	0	3.68	0.00	3.68
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-45	-25	0	48	0.00	0.98	-0.98
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sub Total ER	1403	2008			49.46	0.98	48.48
Total IR Exch	2411	2747			80.52	4.43	76.09

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
26.14	3.72	29.86	18.19	16.54	3.64	5.60	1.15	-1.11

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
52.84	32.06	84.91	48.48	27.61	76.09	-4.37	-4.45	-8.82

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	0.10	55.60	55.50	87.10	44.40

<----- Frequency (Hz) ----->				Average Frequency Hz	Frequency Variation Index	Std. Dev.	Frequency in 15 Min Block	
Maximum		Minimum					MAX (Hz)	MIN (Hz)
Freq	Time	Freq	Time					
50.57	3.13	49.67	20.19	50.17	0.54	0.16	50.63	50.00

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	418	06:02	407	17:51	0.0	0.0	0.0	0.0
Gorakhpur	400	431	07:49	417	18:23	0.0	0.0	85.8	0.8
Bareilly	400	423	03:07	404	16:48	0.0	0.0	3.3	0.0
Kanpur	400	426	03:10	411	16:46	0.0	0.0	18.4	0.0
Dadri	400	423	03:11	407	16:41	0.0	0.0	8.4	0.0
Ballabgarh	400	429	03:05	410	16:46	0.0	0.0	33.8	0.0
Bawana	400	421	07:01	409	11:03	0.0	0.0	2.9	0.0
Bassi	400	435	02:46	413	19:28	0.0	0.0	72.7	3.4
Hissar	400	421	02:58	401	11:04	0.0	0.0	0.6	0.0
Moga	400	421	03:01	400	19:31	0.0	0.0	1.1	0.0
Abdullapur	400	421	02:47	407	19:13	0.0	0.0	0.7	0.0
Nalagarh	400	421	02:47	405	11:45	0.0	0.0	5.7	0.0
Kishenpur	400	420	02:20	401	19:09	0.0	0.0	0.0	0.0
Wagoora	400	416	03:05	387	19:09	0.0	2.8	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	502.94	1219.07	512.38	1667.20	903.00	533.57
Pong	426.72	384.05	420.00	889.22	670.23	372.51	423.51	1051.02
Tehri	829.79	740.04	822.80	1055.00	818.65	982.26	495.29	523.00
Koteswar	612.50	598.50	NA	NA	NA	NA	NA	NA
Chamera-I	760.00	748.75	NA	NA	NA	NA	301.68	347.42
Rihand	268.22	252.98	262.80	466.80	265.61	650.20	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	515.42	NA	524.44	NA	544.62	233.10

* NA: Not Available

IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

XI. Weather Conditions For 17.09.2012 :

1: Scattered rains in , HP, Punjab , J & K , Haryana and UP.

XII. Synchronisation of new generating units :

XIII. Synchronisation of new 220 / 400 / 765 KV lines and energising of bus / /substation :

1. 400 kv Dhanoda - Daulatabad first time charged(temporary arrangement)at 20.24 hrs of 17-09-2012
by loop out of CLP-Dhanoda circuit -1 and Jhajar(Arawali)-daulatabad-1

XIV. Tripping of lines in pooling stations :

XV. Complete generation loss in a generating station :

Report for : 17.09.2012

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER