

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पारसिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 26.09.2012
Date of Reporting : 27.09.2012

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
35626	6372	41998	50.13	33078	2233	35312	50.20	807.5	104.74

* 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	50.27	12.12		62.39	75.97	77.13	1.16	139.52	25.63
Haryana	69.16	0.81		69.97	64.57	64.78	0.21	134.75	6.75
Rajasthan	78.04	2.46	6.42	86.92	58.57	61.07	2.50	147.98	10.65
Delhi	23.25			23.25	64.26	59.09	-5.17	82.34	0.03
UP	95.99	16.46	0.00	112.45	102.59	102.97	0.38	215.41	56.26
Uttarakhand		18.69		18.69	8.44	10.31	1.87	29.00	2.24
HP		16.88		16.88	5.12	6.21	1.09	23.09	1.48
J & K		15.31	0.00	15.31	15.06	15.44	0.38	30.75	1.70
Chandigarh				0.00	4.85	4.69	-0.15	4.69	0.00
Total	316.69	82.73	6.42	405.84	399.42	401.69	2.27	807.54	104.74

* 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	6475	3288	145	762	5838	250	63	1225	22.22
Haryana	5856	321	-120	348	5283	495	191	342	10.12
Rajasthan	6265	624	2	764	6055	78	171	207	15.49
Delhi	3829	11	-456	74	2888	0	-298	-328	-1.80
UP	9017	1900	-202	493	9887	1340	184	1622	18.53
Uttarakhand	1482	80	193	-57	1107	70	4	-74	-1.96
HP	1013	48	28	-748	919	0	123	-464	-13.11
J&K	1459	100	-33	-255	942	0	-194	-248	-6.07
Chandigarh	230	0	-14	-7	158	0	18	0	0.33
Total	35626	6372	-457	1374	33078	2233	262	2282	43.76

* 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		Energy (Net MU)	Average Sentout(MW)	Schedule Net MU	UI Net MU
				(Gross)	(Gross)				
A. NTPC	Singrauli STPS	2000	1430	1560	1559	34.84	1452	34.32	0.52
	Rihand I STPS	1000	765	941	820	18.52	772	18.31	0.21
	Rihand II STPS	1000	490	522	510	11.97	499	11.73	0.24
	Rihand III STPS	500		0	0	0.00	0		0.00
	Dadri I STPS	840	800	822	627	15.83	660	16.03	-0.20
	Dadri II STPS	980	962	980	891	21.11	880	21.62	-0.51
	Unchahar I TPS	420	403	426	436	9.61	400	9.65	-0.05
	Unchahar II TPS	420	398	421	423	9.50	396	9.54	-0.04
	Unchahar III TPS	210	199	216	211	4.74	197	4.72	0.02
	ISTPP (Jhajihar)	1000	950	779	808	17.98	749	17.97	0.01
	Dadri GPS	830	798	542	575	13.72	572	13.78	-0.06
	Anta GPS	419	393	235	213	5.97	249	5.70	0.27
	Auraiya GPS	663	420	311	289	7.08	295	7.12	-0.03
	Sub Total (A)		10282	8009	7755	7362	170.88	7120	170.49
B. NPC	NAPS	440	265	303	307	6.33	264	6.36	-0.03
	RAPS- B	440	407	453	456	9.78	408	9.77	0.01
	RAPS- C	440	455	467	467	9.93	414	10.92	-0.99
	Sub Total (B)		1320	1127	1223	1230	26.04	1085	27.05
C. NHPC	Chamera I HPS	540	535	540	450	12.33	514	12.01	0.32
	Chamera II HPS	300	213	300	116	4.61	192	4.70	-0.08
	Chamera III HPS	231	166	234	131	2.98	124	2.92	0.06
	Bairasuil HPS	180	128	120	40	2.03	85	2.07	-0.04
	Salal-HPS	690	426	479	370	10.15	423	10.21	-0.05
	Tanakpur-HPS	94	94	92	94	2.23	93	2.24	-0.02
	Uri-HPS	480	475	480	476	11.48	478	11.30	0.17
	Dhauliganga-HPS	280	277	276	132	4.32	180	4.26	0.06
	Dulhasti-HPS	390	387	390	262	9.23	385	9.23	0.00
	Sewa-II HPS	120	76	83	72	1.80	75	1.82	-0.01
	Sub Total (C)		3305	2776	2994	2143	61.16	2548	60.76
D.NJPC	Nathpa Jhakri	1500	1584	1350	758	18.60	775	18.71	-0.10
	Sub Total (D)		1500	1584	1350	758	18.60	775	18.71
E. THDC	Tehri HPS	1000	1050	1062	0	8.14	339	8.00	0.14
	Koteshwar HPS	400	370	371	0	2.79	116	2.70	0.09
Sub Total (E)		1400	1420	1433	0	10.93	456	10.70	0.23
F. BBMB	Bhakra HPS	1480	772	1257	566	18.77	782	18.53	0.24
	Dehar HPS	990	328	330	330	8.31	346	7.88	0.43
	Pong HPS	396	216	366	126	5.41	225	5.01	0.40
	Sub Total (F)		2866	1316	1953	1022	32.49	1354	31.41
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	86	77	1.70	71	2.13	-0.43
	KWHEP HPS(IPP)	1000	0	880	475	10.14	422	10.34	-0.21
	Malana Stg-II HPS	100	0	41	41	0.89	37	0.89	0.00
	Shree Cement TPS	300	0	121	72	2.37	99	2.19	0.18
	Budhil HPS(IPP)	70	0	60	10	0.69	29	0.20	0.48
	Sub Total (G)		1662	0	1188	675	15.79	658	15.76
H. Total Regional Entities (A-G)		22336	16231	17896	13190	335.89	13995	334.88	1.01

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	1256	1256	28.00	1167	
	Guru Nanak Dev TPS(Bhatinda)	440	222	236	4.35	181	
	Guru Hargobind Singh TPS(L.mbt)	920	669	953	17.92	747	
	Thermal (Total)	2620	2147	2445	50.27	2095	
	Total Hydro	1148	784	276	12.12	505	
	Total Punjab	3768	2931	2721	62.39	2600	
Haryana	Panipat TPS	1367	1138	1139	27.56	1148	
	DCRTPP (Yamuna nagar)	600	0	0	0.00	0	
	Faridabad GPS (NTPC)	432	397	411	9.89	412	
	RGTPP (khedar) (IPP)	1200	472	405	12.05	502	
	Magnum Diesel (IPP)	25	0	0	0.00	0	
	Jhajjar(CLP)	1320	1023	564	19.67	820	
	Thermal (Total)	4944	3030	2519	69.16	2882	
	Total Hydro	62	31	33	0.81	34	
	Total Haryana	5006	3061	2552	69.97	2915	
	Rajasthan	kota TPS	1240	766	857	20.01	834
		suratgarh TPS	1500	1106	1078	26.18	1091
Chabra TPS		500	457	456	10.96	457	
Dholpur GPS		330	139	141	3.30	138	
Ramgarh GPS		111	55	57	1.42	59	
RAPS A (NPC)		300	179	179	4.20	175	
Barsingsar (NLC)		250	113	111	2.57	107	
Giral LTPS		250	35	45	1.22	51	
Rajwest LTPS (IPP)		540	311	432	8.17	341	
VSLP LTPS (IPP)		135	0	0	0.00	0	
Thermal (Total)		5156	3161	3356	78.04	3251	
Total Hydro		550	218	49	2.46	102	
Wind power		1843	85	430	3.33	139	
Biomass		91	27	27	0.64	27	
Solar		128	0	0	0.00	0	
Renewable/Others (Total)		2062	112	457	6.42	268	
Total Rajasthan		7767	3491	3862	86.92	3621	
UP		Anpara TPS	1630	1173	1187	26.60	1108
	Obra TPS	1382	346	311	8.00	333	
	Paricha TPS	890	543	530	12.90	538	
	Panki TPS	210	0	50	0.80	33	
	Harduaganj TPS	665	0	97	1.90	79	
	Tanda TPS (NTPC)	440	397	396	9.70	404	
	Roza TPS (IPP)	1200	815	766	19.34	806	
	Anpara-C (IPP)	1200	493	495	11.91	496	
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	233	210	4.84	202	
	Thermal (Total)	8067	4000	4042	95.99	3999	
	Vishnuparyag HPS (IPP)	400	436	436	9.64	402	
	Other Hydro	527	213	0	6.82	284	
	Cogeneration	981	0	0	0.00	0	
	Total UP	9975	4649	4478	112.45	4284	
	Uttarakhand	Total Hydro	1303	749	820	18.69	779
Total Uttarakhand		1303	749	820	18.69	779	
Delhi	Raighat TPS	135	54	54	1.21	50	
	Delhi Gas Turbine	282	74	72	1.87	78	
	Pragati Gas Turbine	330	297	265	6.85	285	
	Rithala GPS	108	21	0	0.30	12	
	Bawana GPS	677	0	0	0.00	0	
	Badarpur TPS (NTPC)	705	580	600	13.02	543	
	Thermal (Total)	2237	1026	991	23.25	969	
Total Delhi	2237	1026	991	23.25	969		
HP	Baspa HPS (IPP)	330	146	59	3.64	152	
	Malana HPS (IPP)	86	20	23	0.93	39	
	Other Hydro	589	509	495	12.30	512	
	Total HP	1005	675	577	17	703	
J & K	Baglihar HPS (IPP)	450	440	440	10.58	441	
	Other Hydro	323	185	210	4.73	197	
	Gas/Diesel/Others	183	0	0	0.00	0	
	Total J & K	956	625	650	15.31	638	
Total State Control Area Generation		32017	17207	16651	405.84	16509	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			1974	3628	75.87	3161	
Total Regional Availability(Gross)		54353	37077	33469	817.61	33665	

IV. Total Hydro Generation:

Regional Entities Hydro	10364	8737	4516	135.92	5663
State Control Area Hydro	5368	3295	2405	82.73	3045
Total Regional Hydro	15731	12032	6921	218.64	8709

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	150	300	0	5.12	0.00	5.12
Gwalior-Agra (D/C)	124	693	845	0	12.89	0.00	12.89
Zerda-Kankroli	-27	45	103	101	0.52	0.00	0.52
Zerda-Bhinmal	64	70	233	16	2.53	0.00	2.53
Malanpur-Auraiya	-174	-39	0	174	0.00	1.56	-1.56
Badod-Kota/Morak	40	96	119	0	1.51	0.00	1.51
Mundra-Mohindergarh(HVDC)	604	603	608	0	15.19	0.00	15.19
Sub Total WR	931	1618			37.76	1.56	36.20
Pusauli Bypass	-100	-150	0	150	0.00	2.37	-2.37
MZP- GKP (D/C)	540	812	860	0	16.92	0.00	16.92
Patna-Balia(D/C)	201	502	539	0	10.26	0.00	10.26
B'Sharif-Balia (D/C)	82	182	234	0	3.76	0.00	3.76
Barh - Balia(D/C)	165	310	440	0	6.70	0.00	6.70
Pusauli-Balia	48	2	122	0	0.09	0.00	0.09
Gaya-Fatehpur (765 Kv)	0	213	262	0	1.46	0.00	1.46
Pusauli-Sahupuri	154	181	187	0	3.87	0.00	3.87
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-47	-42	0	48	0.00	1.03	-1.03
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sub Total ER	1043	2010			43.07	3.40	39.67
Total IR Exch	1974	3628			80.83	4.96	75.87

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
32.61	3.72	36.33	6.05	7.87	6.84	7.15	0.29	-0.26

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
49.52	29.15	78.67	39.67	36.20	75.87	-9.85	7.05	-2.80

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	0.50	4.10	96.60	93.00	34.20	2.90

<----- 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					
50.38	9.03	49.33	5.18	49.95	0.22	0.14	50.31	49.75

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	10:57	405	23:20	0.0	0.0	0.0	0.0
Gorakhpur	400	428	18:53	407	22:12	0.0	0.0	50.0	0.0
Bareilly	400	418	17:50	400	11:53	0.0	0.0	0.0	0.0
Kanpur	400	421	03:18	402	19:42	0.0	0.0	0.6	0.0
Dadri	400	416	03:18	403	11:28	0.0	0.0	0.0	0.0
Ballabgarh	400	424	03:18	408	11:29	0.0	0.0	7.7	0.0
Bawana	400	419	03:20	406	11:29	0.0	0.0	0.0	0.0
Bassi	400	432	03:22	409	18:39	0.0	0.0	28.1	0.7
Hissar	400	412	17:45	396	18:39	0.0	0.0	0.0	0.0
Moga	400	413	16:06	393	18:39	0.0	0.0	0.0	0.0
Abdullapur	400	416	03:23	236	12:04	0.5	0.5	0.0	0.0
Nalagarh	400	415	00:00	400	19:19	0.0	0.0	0.0	0.0
Kishenpur	400	416	02:49	394	19:25	0.0	0.0	0.0	0.0
Wagoora	400	416	02:46	387	19:27	0.0	2.4	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 (m ³ /s)	Usage (m ³ /s)
Bhakra	513.59	445.62	505.19	1312.37	511.95	1650.87	484.30	539.97
Pong	426.72	384.05	422.60	1005.78	423.62	1066.19	388.87	304.63
Tehri	829.79	740.04	823.30	1065.64	818.65	982.26	226.27	177.00
Koteswar	612.50	598.50	607.10	3.32	NA	NA	177.00	185.00
Chamera-I	760.00	748.75	NA	NA	NA	NA	337.32	346.75
Rihand	268.22	252.98	264.11	552.20	265.54	652.40	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	520.00	NA	524.83	NA	360.44	46.18

* NA: Not Available
IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

XI. Weather Conditions For 26.09.2012 :
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 : 26.09.2012

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER