

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरसिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 14.09.2012

Date of Reporting : 15.09.2012

I. Regional Availability/Demand:

Demand Met	Evening Peak (20:00 Hrs) MW			Demand Met	Off Peak (03:00 Hrs) MW			Day Energy (Net MU)	
	Shortage	Requirement	Freq* (Hz)		Shortage	Requirement	Freq* (Hz)	Demand Met	Shortage
35125	2781	37907	50.12	34194	851	35044	50.32	813.5	34.73

* 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	49.19	9.52		58.71	108.91	109.05	0.13	167.76	1.80
Haryana	60.53	0.82		61.35	69.43	66.30	-3.12	127.65	1.04
Rajasthan	66.39	1.72	10.57	78.68	52.77	51.10	-1.66	129.78	0.13
Delhi	24.16			24.16	72.02	68.26	-3.76	92.42	0.04
UP	72.48	14.54	0.48	87.50	124.47	120.34	-4.14	207.83	29.57
Uttarakhand		14.73		14.73	13.30	13.85	0.55	28.59	0.45
HP		24.33		24.33	1.29	1.17	-0.13	25.49	0.00
J & K		15.29	0.00	15.29	18.69	13.38	-5.31	28.67	1.70
Chandigarh				0.00	5.91	5.28	-0.63	5.28	0.00
Total	272.74	80.94	11.05	364.74	466.79	448.73	-18.06	813.47	34.73

* 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	7012	600	-99	1536	7135	0	-119	2200	48.34	
Haryana	5594	31	-579	988	5254	136	112	565	19.11	
Rajasthan	6035	0	-215	518	5154	0	-47	172	5.89	
Delhi	4059	0	-131	409	3526	0	-15	136	7.55	
UP	8236	1900	-270	624	10045	715	0	1741	25.84	
Uttarakhand	1220	150	84	-21	1050	0	-140	-74	-1.30	
HP	1143	0	-12	-1038	941	0	7	-1121	-25.34	
J&K	1575	100	-73	-224	900	0	-377	-368	-7.15	
Chandigarh	251	0	-14	6	189	0	-18	-9	0.52	
Total	35125	2781	-1310	2798	34194	851	-597	3243	73.46	

* 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	1425	1536	1445	34.34	1431	34.18	0.16
Rihand I STPS	1000	835	916	901	18.72	780	19.13	-0.41
Rihand II STPS	1000	965	1033	994	21.48	895	22.12	-0.65
Rihand III STPS	500	0	0	0	0.00	0		0.00
Dadri I STPS	840	600	489	466	10.74	447	11.44	-0.70
Dadri II STPS	980	970	801	780	17.65	735	18.78	-1.13
Unchahar I TPS	420	197	188	202	4.00	167	4.37	-0.37
Unchahar II TPS	420	400	351	398	7.88	328	8.24	-0.36
Unchahar III TPS	210	199	188	188	3.97	166	4.22	-0.25
ISTPP (Jhajihar)	1000	940	722	653	16.36	682	15.79	0.56
Dadri GPS	830	793	498	532	11.09	462	11.13	-0.04
Anta GPS	419	393	196	258	4.93	205	5.00	-0.07
Auraiya GPS	663	625	313	317	6.80	283	6.95	-0.15
Sub Total (A)	10282	8342	7231	7134	157.96	6581	161.35	-3.39
B. NPC								
NAPS	440	258	299	304	6.27	261	6.19	0.08
RAPS- B	440	397	447	451	9.75	406	9.53	0.22
RAPS- C	440	410	462	463	9.88	412	9.84	0.04
Sub Total (B)	1320	1065	1208	1218	25.91	1079	25.56	0.34
C. NHPC								
Chamera I HPS	540	534	540	540	12.31	513	12.81	-0.50
Chamera II HPS	300	300	302	302	7.11	296	7.21	-0.10
Chamera III HPS	231	225	233	231	5.36	223	5.42	-0.07
Bairasuil HPS	180	130	120	120	2.59	108	2.76	-0.17
Salai-HPS	690	665	660	664	15.87	661	15.96	-0.09
Tanakpur-HPS	94	49	0	95	1.14	48	1.28	-0.14
Uri-HPS	480	467	479	473	10.94	456	10.79	0.15
Dhauliganga-HPS	280	277	278	278	6.72	280	6.75	-0.03
Dulhasti-HPS	390	387	410	357	9.18	383	9.26	-0.08
Sewa-II HPS	120	80	85	73	1.47	61	1.49	-0.02
Sub Total (C)	3305	3113	3107	3133	72.68	3028	73.74	-1.05
D.NJPC								
Natpna Jhakri	1500	1605	1519	1517	36.23	1510	36.00	0.23
Sub Total (D)	1500	1605	1519	1517	36.23	1510	36.00	0.23
E. THDC								
Tehri HPS	1000	1050	1052	969	24.47	1019	25.00	-0.54
Koteshwar HPS	400	390	391	392	9.27	386	9.36	-0.09
Sub Total (E)	1400	1440	1443	1361	33.74	1406	34.36	-0.62
F. BBMB								
Bhakra HPS	1480	809	1232	620	19.56	815	19.41	0.15
Dehar HPS	990	613	660	630	15.07	628	14.70	0.37
Pong HPS	396	211	366	120	4.85	202	5.01	-0.16
Sub Total (F)	2866	1633	2258	1370	39.48	1645	39.12	0.36
G. IPP(s)/JV(s)								
ADHPL HPS(IPP)	192	0	207	132	3.86	161	2.76	1.10
KWHEP HPS(IPP)	1000	0	1010	1000	23.44	977	22.85	0.59
Malana Stg-II HPS	100	0	102	99	2.36	98	1.95	0.41
Shree Cement TPS	300	0	111	73	2.24	93	2.28	-0.04
Budhil HPS(IPP)	70	0	35	10	0.33	14	0.17	0.15
Sub Total (G)	1662	0	1465	1314	32.23	1343	30.01	2.21
H. Total Regional Entities (A-G)	22336	17198	18231	17047	398.22	16592	400.14	-1.92

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	1212	1030	25.41	1059	
	Guru Nanak Dev TPS(Bhatinda)	440	289	208	4.72	197	
	Guru Hargobind Singh TPS(L.mbt)	920	944	861	19.05	794	
	Thermal (Total)	2620	2445	2099	49.19	2050	
	Total Hydro	1148	541	376	9.52	397	
	Total Punjab	3768	2986	2475	58.71	2446	
Haryana	Panipat TPS	1367	1105	1118	25.07	1044	
	DCRTPP (Yamuna nagar)	600	0	0	0.00	0	
	Faridabad GPS (NTPC)	432	399	371	7.66	319	
	RGTPP (kheadar) (IPP)	1200	773	623	17.37	724	
	Magnum Diesel (IPP)	25	0	0	0.00	0	
	Jhajjar(CLP)	1320	418	472	10.44	435	
	Thermal (Total)	4944	2695	2584	60.53	2522	
	Total Hydro	62	32	33	0.82	34	
	Total Haryana	5006	2727	2617	61.35	2556	
Rajasthan	kota TPS	1240	794	731	18.58	774	
	suratgarh TPS	1500	994	987	23.34	972	
	Chabra TPS	500	380	373	8.76	365	
	Dholpur GPS	330	212	140	3.57	149	
	Ramgarh GPS	111	69	72	1.75	73	
	RAPS A (NPC)	300	179	179	4.18	174	
	Barsingar (NLC)	250	0	0	0.05	2	
	Giral LTPS	250	0	0	0.00	0	
	Rajwest LTPS (IPP)	540	194	270	6.16	257	
	VSLP LTPS (IPP)	135	0	0	0.00	0	
	Thermal (Total)	5156	2822	2752	66.39	2766	
	Total Hydro	550	49	47	1.72	72	
	Wind power	1843	634	257	8.18	341	
	Biomass	91	24	24	0.58	24	
	Solar	128	0	0	0.09	4	
	Renewable/Others (Total)	2062	658	281	10.57	441	
	Total Rajasthan	7767	3529	3080	78.68	3278	
	UP	Anpara TPS	1630	1152	1115	24.20	1008
		Obra TPS	1382	343	359	7.80	325
Paricha TPS		890	203	437	5.50	229	
Panki TPS		210	30	55	1.20	50	
Harduaganj TPS		665	289	276	5.80	242	
Tanda TPS (NTPC)		440	384	289	8.66	361	
Roza TPS (IPP)		1200	545	540	11.59	483	
Anpara-C (IPP)		1200	326	0	3.05	127	
Bajaj Energy Pvt.Ltd(IPP) TPS		450	203	230	4.68	195	
Thermal (Total)		8067	3475	3301	72.48	3020	
Vishnuparyag HPS (IPP)		400	436	436	10.36	432	
Other Hydro		527	159	0	4.18	174	
Cogeneration		981	20	20	0.48	20	
Total UP		9975	4090	3757	87.50	3214	
Uttarakhand		Total Hydro	1303	579	664	14.73	614
	Total Uttarakhand	1303	579	664	14.73	614	
Delhi	Raighat TPS	135	90	90	2.14	89	
	Delhi Gas Turbine	282	152	150	3.72	155	
	Pragati Gas Turbine	330	300	267	6.93	289	
	Rithala GPS	108	21	20	0.59	24	
	Bawana GPS	677	0	0	0.00	0	
	Badarpur TPS (NTPC)	705	500	500	10.79	450	
	Thermal (Total)	2237	1063	1027	24.16	1007	
	Total Delhi	2237	1063	1027	24.16	1007	
HP	Baspa HPS (IPP)	330	306	306	7.33	305	
	Malana HPS (IPP)	86	97	91	2.20	92	
	Other Hydro	589	634	614	14.79	616	
	Total HP	1005	1037	1011	24	1014	
J & K	Baglihar HPS (IPP)	450	442	442	10.56	440	
	Other Hydro	323	185	210	4.73	197	
	Gas/Diesel/Others	183	0	0	0.00	0	
	Total J & K	956	627	652	15.29	637	
Total State Control Area Generation		32017	16638	15283	364.74	14766	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			1491	3369	70.78	2949	
Total Regional Availability(Gross)		54353	36360	35699	833.74	34308	

IV. Total Hydro Generation:

Regional Entities Hydro	10364	9646	8612	211.79	8825
State Control Area Hydro	5368	3024	2783	80.94	2941
Total Regional Hydro	15731	12670	11395	292.74	11766

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	-50	150	250	100	2.50	0.53	1.97
Gwalior-Agra (D/C)	74	557	832	106	11.73	0.00	11.73
Zerda-Kankroli	-73	-40	74	130	0.00	1.09	-1.09
Zerda-Bhinmal	-50	-41	91	142	1.20	0.62	0.58
Malanpur-Auraiya	-79	-45	0	45	0.00	1.47	-1.47
Badod-Kota/Morak	-52	71	95	75	0.67	0.00	0.67
Mundra-Mohindergarh(HVDC)	476	534	534	0	12.23	0.00	12.23
Sub Total WR	246	1186			28.33	3.71	24.62
Pusauli Bypass	300	300	300	0	7.29	0.00	7.29
MZP- GKP (D/C)	438	834	926	0	17.84	0.00	17.84
Patna-Balia(D/C)	283	414	476	0	8.86	0.00	8.86
B'Sharif-Balia (D/C)	166	403	485	0	7.91	0.00	7.91
Barh - Balia(D/C)	0	0	0	0	0.00	0.00	0.00
Pusauli-Balia	-115	-45	0	245	0.00	1.16	-1.16
Gaya-Fatehpur (765 Kv)	81	126	180	18	2.65	0.00	2.65
Pusauli-Sahupuri	137	176	184	0	3.77	0.00	3.77
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-45	-25	0	48	0.00	0.99	-0.99
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sub Total ER	1245	2183			48.32	2.15	46.16
Total IR Exch	1491	3369			76.64	5.86	70.78

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
29.53	3.58	33.11	17.75	18.61	2.94	5.01	0.53	-0.40
Total IR Schedule (MU)								
Through ER	Through WR Inclds Mndra	Total	Through ER	Through WR	Total	Through ER	Through WR	Total
54.32	27.68	82.00	46.16	24.62	70.78	-8.16	-3.06	-11.22

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	0.52	1.18	2.15	80.41	79.44	84.23	18.41
Frequency (Hz) <----->								
Maximum		Minimum		Average Frequency	Frequency Variation Index	Std. Dev.	Frequency in 15 Min Block	
Freq	Time	Freq	Time				MAX (Hz)	MIN (Hz)
50.65	8.05	49.12	19.02	50.15	0.56	0.15	50.61	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	418	8:04	407	15:20	0.0	0.0	0.0	0.0
Gorakhpur	400	0	0:00	9999	0:00	0.0	0.0	0.0	0.0
Bareilly	400	423	8:05	402	19:01	0.0	0.0	1.3	0.0
Kanpur	400	425	8:04	407	19:00	0.0	0.0	6.4	0.0
Dadri	400	417	8:04	404	14:43	0.0	0.0	0.0	0.0
Ballabhgarh	400	425	4:04	409	14:43	0.0	0.0	17.1	0.0
Bawana	400	419	8:04	405	14:45	0.0	0.0	0.0	0.0
Bassi	400	436	3:47	406	14:35	0.0	0.0	72.9	6.5
Hissar	400	414	8:04	400	14:47	0.0	0.0	0.0	0.0
Moga	400	419	8:04	403	11:47	0.0	0.0	0.0	0.0
Abdullapur	400	415	8:07	286	15:48	0.1	0.1	0.0	0.0
Nalagarh	400	412	21:26	397	14:45	0.0	0.0	0.0	0.0
Kishenpur	400	416	8:04	401	19:02	0.0	0.0	0.0	0.0
Wagoora	400	412	23:43	387	19:28	0.0	1.2	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	502.17	1192.70	512.23	1667.20	996.64	586.75
Pong	426.72	384.05	419.23	848.35	423.24	1051.02	843.44	287.19
Tehri	829.79	740.04	822.25	1045.00	818.65	982.26	562.67	448.00
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 14.09.2012 :

1: Partial rains in UP, Punjab , J & K , HP,Uttranchal.

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 : 14.09.2012

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER