

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरसिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 24.09.2012

Date of Reporting : 25.09.2012

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
35513	4006	39519	50.07	31649	2281	33930	50.26	791.5	76.17

* 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	50.10	10.16		60.25	82.98	83.83	0.86	144.09	5.57
Haryana	51.26	0.82		52.08	66.82	67.28	0.46	119.36	9.51
Rajasthan	77.02	2.27	13.67	92.96	52.13	54.14	2.01	147.10	3.77
Delhi	21.89			21.89	62.61	59.78	-2.84	81.66	0.08
UP	89.42	16.22	0.00	105.64	106.08	106.42	0.34	212.07	51.83
Uttarakhand		19.64		19.64	7.32	8.77	1.44	28.41	2.28
HP		17.92		17.92	4.03	4.98	0.95	22.90	1.43
J & K		15.32	0.00	15.32	15.24	15.88	0.65	31.20	1.70
Chandigarh				0.00	4.91	4.73	-0.18	4.73	0.00
Total	289.69	82.35	13.67	385.72	402.11	405.80	3.69	791.52	76.17

* 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	6718	1225	39	1057	5641	0	44	1711	33.53	
Haryana	5370	642	65	591	4870	491	71	370	10.38	
Rajasthan	6599	28	104	787	5897	0	52	162	7.26	
Delhi	3770	11	-348	73	2899	0	-27	-334	-0.27	
UP	8721	1900	-342	493	9257	1790	6	1425	17.21	
Uttarakhand	1398	80	26	-60	1038	0	-30	-175	-3.61	
HP	1125	20	-15	-836	837	0	99	-617	-15.29	
J&K	1584	100	21	-248	1054	0	-95	-299	-7.02	
Chandigarh	228	0	-20	2	156	0	1	-20	0.25	
Total	35513	4006	-470	1859	31649	2281	120	2221	42.44	

* 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	1430	1546	1535	34.45	1436	34.12	0.33
Rihand I STPS	1000	764	929	820	18.34	764	18.32	0.03
Rihand II STPS	1000	822	1027	849	19.76	823	19.70	0.05
Rihand III STPS	500	0	0	0	0.00	0		0.00
Dadri I STPS	840	786	722	603	16.00	667	16.41	-0.41
Dadri II STPS	980	970	886	880	20.55	856	21.55	-1.01
Unchahar I TPS	420	403	434	404	9.30	388	9.54	-0.24
Unchahar II TPS	420	400	432	330	8.59	358	8.68	-0.09
Unchahar III TPS	210	199	217	168	4.32	180	4.37	-0.05
ISTPP (Jhajhar)	1000	950	808	759	17.52	730	17.79	-0.27
Dadri GPS	830	798	456	400	10.64	443	11.35	-0.71
Anta GPS	419	393	243	236	5.83	243	5.91	-0.09
Auraiya GPS	663	420	249	273	6.86	286	7.01	-0.16
Sub Total (A)	10282	8336	7949	7257	172.15	7173	174.76	-2.60
B. NPC								
NAPS	440	265	300	309	6.37	266	6.36	0.01
RAPS- B	440	404	453	452	9.78	408	9.70	0.09
RAPS- C	440	455	462	462	9.88	412	10.92	-1.04
Sub Total (B)	1320	1124	1215	1223	26.03	1085	26.98	-0.94
C. NHPC								
Chamera I HPS	540	534	540	540	12.82	534	12.82	0.00
Chamera II HPS	300	300	300	201	5.25	219	5.48	-0.23
Chamera III HPS	231	200	155	154	3.46	144	3.41	0.06
Bairasuil HPS	180	120	120	70	2.46	103	2.44	0.03
Salai-HPS	690	439	528	419	11.00	458	10.73	0.27
Tanakpur-HPS	94	94	92	94	2.22	92	2.24	-0.03
Uri-HPS	480	475	478	478	11.28	470	11.06	0.22
Dhauliganga-HPS	280	277	277	208	5.22	218	5.31	-0.09
Dulhasi-HPS	390	387	350	387	9.28	387	9.22	0.06
Sewa-II HPS	120	80	84	71	1.91	80	1.87	0.03
Sub Total (C)	3305	2905	2924	2622	64.91	2704	64.57	0.33
D.NJPC								
Natpha Jhakri	1500	1605	1571	704	21.04	876	20.61	0.43
Sub Total (D)	1500	1605	1571	704	21.04	876	20.61	0.43
E. THDC								
Tehri HPS	1000	1050	1061	0	10.50	438	10.00	0.50
Koteshwar HPS	400	355	291	0	2.96	123	2.90	0.06
Sub Total (E)	1400	1405	1352	0	13.46	561	12.90	0.56
F. BBMB								
Bhakra HPS	1480	671	1267	411	16.50	688	16.11	0.39
Dehar HPS	990	339	450	650	8.10	338	8.14	-0.04
Pong HPS	396	210	356	120	5.26	219	5.01	0.25
Sub Total (F)	2866	1220	2073	1181	29.86	1244	29.25	0.61
G. IPP(s)/JV(s)								
ADHPL HPS(IPP)	192	0	110	77	1.94	81	2.17	-0.23
KWHEP HPS(IPP)	1000	0	212	275	12.59	525	13.42	-0.83
Malana Stg-II HPS	100	0	41	41	0.99	41	0.91	0.08
Shree Cement TPS	300	0	116	39	1.64	68	1.75	-0.11
Budhil HPS(IPP)	70	0	35	34	0.84	35	0.20	0.64
Sub Total (G)	1662	0	514	466	18.00	750	18.45	-0.45
H. Total Regional Entities (A-G)	22336	16595	17598	13453	345.44	14393	347.51	-2.06

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	1255	927	26.18	1091	
	Guru Nanak Dev TPS(Bhatinda)	440	148	100	2.76	115	
	Guru Hargobind Singh TPS(L.mbt)	920	960	953	21.16	882	
	Thermal (Total)	2620	2363	1980	50.10	2087	
	Total Hydro	1148	540	235	10.16	423	
	Total Punjab	3768	2903	2215	60.25	2511	
Haryana	Panipat TPS	1367	964	1128	24.43	1018	
	DCRTPP (Yamuna nagar)	600	0	0	0.00	0	
	Faridabad GPS (NTPC)	432	393	410	8.86	369	
	RGTPP (khedar) (IPP)	1200	483	171	8.86	369	
	Magnum Diesel (IPP)	25	0	0	0.00	0	
	Jhajjar(CLP)	1320	367	360	9.12	380	
	Thermal (Total)	4944	2207	2069	51.26	2136	
	Total Hydro	62	33	32	0.82	34	
	Total Haryana	5006	2240	2101	52.08	2170	
Rajasthan	kota TPS	1240	882	836	20.45	852	
	suratgarh TPS	1500	1066	1101	25.40	1058	
	Chabra TPS	500	450	450	10.77	449	
	Dholpur GPS	330	136	143	3.30	137	
	Ramgarh GPS	111	56	57	1.48	62	
	RAPS A (NPC)	300	179	179	4.15	173	
	Barsingar (NLC)	250	113	111	2.61	109	
	Giral LTPS	250	31	21	0.92	38	
	Rajwest LTPS (IPP)	540	346	347	7.94	331	
	VSLP LTPS (IPP)	135	0	0	0.00	0	
	Thermal (Total)	5156	3259	3245	77.02	3209	
	Total Hydro	550	89	49	2.27	95	
	Wind power	1843	321	593	10.83	451	
	Biomass	91	24	24	0.57	24	
	Solar	128	0	0	0.00	0	
	Renewable/Others (Total)	2062	345	617	13.67	570	
	Total Rajasthan	7767	3693	3911	92.96	3873	
	UP	Anpara TPS	1630	1117	1066	25.90	1079
		Obra TPS	1382	333	290	7.50	313
Paricha TPS		890	531	461	12.50	521	
Panki TPS		210	68	63	1.50	63	
Harduaganj TPS		665	225	167	4.30	179	
Tanda TPS (NTPC)		440	395	395	9.57	399	
Roza TPS (IPP)		1200	540	540	12.87	536	
Anpara-C (IPP)		1200	516	508	12.21	509	
Bajaj Energy Pvt.Ltd(IPP) TPS		450	144	144	3.07	128	
Thermal (Total)		8067	3869	3634	89.42	3726	
Vishnuparyag HPS (IPP)		400	436	436	10.15	423	
Other Hydro		527	244	0	6.07	253	
Cogeneration		981	0	0	0.00	0	
Total UP		9975	4549	4070	105.64	3979	
Uttarakhand		Total Hydro	1303	839	834	19.64	818
		Total Uttarakhand	1303	839	834	19.64	818
Delhi	Raighat TPS	135	38	47	1.02	43	
	Delhi Gas Turbine	282	72	76	1.88	78	
	Pragati Gas Turbine	330	296	268	6.83	284	
	Rithala GPS	108	0	0	0.00	0	
	Bawana GPS	677	0	0	0.00	0	
	Badarpur TPS (NTPC)	705	610	515	12.16	507	
	Thermal (Total)	2237	1016	906	21.89	912	
	Total Delhi	2237	1016	906	21.89	912	
HP	Baspa HPS (IPP)	330	249	129	4.20	175	
	Malana HPS (IPP)	86	58	24	1.05	44	
	Other Hydro	589	539	518	12.67	528	
	Total HP	1005	846	671	18	747	
J & K	Baglihar HPS (IPP)	450	442	440	10.59	441	
	Other Hydro	323	185	210	4.73	197	
	Gas/Diesel/Others	183	0	0	0.00	0	
	Total J & K	956	627	650	15.32	639	
Total State Control Area Generation		32017	16713	15358	385.72	15649	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			1848	3808	75.50	3146	
Total Regional Availability(Gross)		54353	36159	32619	806.66	33188	

IV. Total Hydro Generation:

Regional Entities Hydro	10364	8283	4900	144.78	6032
State Control Area Hydro	5368	3218	2471	82.35	3008
Total Regional Hydro	15731	11501	7371	227.13	9041

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	Import	Export	
Vindhychal B/B	0	50	400	0	2.84	0.00	2.84	0.00	2.84
Gwalior-Agra (D/C)	168	713	762	90	12.83	0.00	12.83	0.00	12.83
Zerda-Kankroli	9	103	103	99	2.65	0.00	2.65	0.00	2.65
Zerda-Bhinmal	69	118	161	62	1.35	0.00	1.35	0.00	1.35
Malanpur-Auraiya	-177	-31	0	177	0.00	1.44	-1.44	0.00	-1.44
Badod-Kota/Morak	36	86	100	47	1.20	0.00	1.20	0.00	1.20
Mundra-Mohindergarh(HVDC)	603	606	608	0	14.75	0.00	14.75	0.00	14.75
Sub Total WR	708	1645			35.62	1.44	34.18		
Pusauli Bypass	250	250	250	0	6.02	0.00	6.02	0.00	6.02
MZP- GKP (D/C)	334	762	762	0	14.14	0.00	14.14	0.00	14.14
Patna-Balia(D/C)	264	546	570	0	9.61	0.00	9.61	0.00	9.61
B'Sharif-Balia (D/C)	115	382	409	0	7.42	0.00	7.42	0.00	7.42
Barh - Balia(D/C)	160	0	246	0	1.18	0.00	1.18	0.00	1.18
Pusauli-Balia	-97	-52	0	129	0.00	1.40	-1.40	0.00	-1.40
Gaya-Fatehpur (765 Kv)	0	128	230	0	1.76	0.00	1.76	0.00	1.76
Pusauli-Sahupuri	161	189	189	0	3.62	0.00	3.62	0.00	3.62
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00	0.00	0.00
Son Ngr-Rihand	-47	-42	0	48	0.00	1.03	-1.03	0.00	-1.03
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00	0.00	0.00
Sub Total ER	1140	2163			43.75	2.43	41.32		
Total IR Exch	1848	3808			79.37	3.87	75.50		

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
26.60	3.51	30.11	9.60	9.77	6.08	-1.79	-0.07	0.10
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
45.73	23.42	69.15	41.32	34.18	75.50	-4.41	10.76	6.35

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	0.10	1.10	94.40	93.40	47.70	5.50
Frequency (Hz)				Average Frequency	Frequency Variation Index	Std. Dev.	Frequency in 15 Min Block	
Maximum		Minimum		Hz			MAX (Hz)	MIN (Hz)
50.41	17.08	49.49	18.38	49.99	0.17	0.13	50.41	49.88

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	4:55	1	12:27	31.4	31.4	0.0	0.0
Gorakhpur	400	427	21:49	410	3:01	0.0	0.0	34.6	0.0
Bareilly	400	418	21:45	402	11:08	0.0	0.0	0.0	0.0
Kanpur	400	418	5:01	405	18:36	0.0	0.0	0.0	0.0
Dadri	400	419	4:59	404	14:39	0.0	0.0	0.0	0.0
Ballabgarh	400	425	5:01	407	15:53	0.0	0.0	15.9	0.0
Bawana	400	421	4:59	407	14:35	0.0	0.0	0.4	0.0
Bassi	400	428	2:54	408	9:21	0.0	0.0	38.0	0.0
Hissar	400	410	4:59	396	14:32	0.0	0.0	0.0	0.0
Moga	400	409	3:15	395	11:48	0.0	0.0	0.0	0.0
Abdullapur	400	418	4:55	293	22:45	0.1	0.1	0.0	0.0
Nalagarh	400	417	4:24	401	12:07	0.0	0.0	0.0	0.0
Kishenpur	400	413	3:15	396	19:21	0.0	0.0	0.0	0.0
Wagoora	400	413	3:17	384	19:32	0.0	9.0	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	505.24	1325.82	512.07	1650.87	566.02	439.51
Pong	426.72	384.05	422.54	1005.78	423.72	1066.19	363.11	295.71
Tehri	829.79	740.04	822.95	1065.00	818.65	982.26	268.69	229.00
Koteshwar	612.50	598.50	609.30	4.21	NA	NA	482.00	504.00
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 24.09.2012 :

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 : 24.09.2012

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER