

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरसिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 21.09.2012

Date of Reporting : 22.09.2012

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
33422	4596	38018	50.08	30209	2010	32219	50.22	755.5	56.98

* 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	35.50	4.86		40.36	86.81	87.77	0.96	128.13	1.80
Haryana	40.66	0.80		41.46	63.53	65.06	1.54	106.52	1.39
Rajasthan	70.26	1.69	7.43	79.38	59.19	61.41	2.22	140.79	3.61
Delhi	24.60			24.60	64.51	60.61	-3.90	85.21	0.16
UP	84.80	16.49	0.48	101.77	103.60	102.93	-0.67	204.70	44.88
Uttarakhand		21.70		21.70	9.33	8.87	-0.47	30.56	1.64
HP		19.49		19.49	2.38	3.09	0.72	22.59	1.81
J & K		15.32	0.00	15.32	16.31	17.01	0.69	32.33	1.70
Chandigarh				0.00	4.98	4.65	-0.33	4.65	0.00
Total	255.82	80.36	7.91	344.09	410.63	411.39	0.76	755.48	56.98

* 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	STOA/PX transaction
Punjab	5809	600	26	823	5151	0	80	1512	31.00
Haryana	4397	1442	-365	463	4286	295	109	477	10.60
Rajasthan	6348	303	42	596	5778	0	-4	455	11.92
Delhi	3923	10	-313	218	2993	0	-112	102	4.11
UP	8429	1900	-181	513	8935	1715	149	741	13.80
Uttarakhand	1329	230	-20	-147	1167	0	-60	-172	-3.72
HP	1135	11	29	-992	872	0	74	-789	-20.39
J&K	1823	100	246	-252	886	0	-213	-404	-7.93
Chandigarh	229	0	-17	-22	142	0	-11	-13	0.17
Total	33422	4596	-553	1199	30209	2010	11	1910	39.56

* 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	1329	1555	1199	31.20	1300	31.25	-0.05
Rihand I STPS	1000	729	933	625	17.27	719	17.11	0.16
Rihand II STPS	1000	782	1033	793	18.67	778	18.75	-0.08
Rihand III STPS	500	0	0	0	0.00	0		0.00
Dadri I STPS	840	600	638	460	10.76	448	11.71	-0.94
Dadri II STPS	980	970	1000	580	18.87	786	20.07	-1.20
Unchahar I TPS	420	221	255	177	4.91	204	5.02	-0.11
Unchahar II TPS	420	400	432	307	8.51	354	8.65	-0.15
Unchahar III TPS	210	199	207	161	4.25	177	4.35	-0.09
ISTPP (Jhajjhar)	1000	950	485	336	9.68	403	10.35	-0.68
Dadri GPS	830	798	390	397	8.89	370	9.38	-0.49
Anta GPS	419	393	254	223	5.22	218	5.19	0.03
Auraiya GPS	663	422	284	270	6.43	268	6.39	0.04
Sub Total (A)	10282	7793	7466	5528	144.65	6027	148.21	-3.56
B. NPC								
NAPS	440	263	303	303	6.33	264	6.31	0.01
RAPS- B	440	408	450	450	9.73	405	9.79	-0.07
RAPS- C	440	455	462	465	9.90	413	10.92	-1.02
Sub Total (B)	1320	1126	1215	1218	25.95	1081	27.02	-1.07
C. NHPC								
Chamera I HPS	540	534	540	540	12.84	535	12.81	0.03
Chamera II HPS	300	300	302	302	7.12	297	7.21	-0.09
Chamera III HPS	231	217	233	232	5.21	217	5.19	0.02
Bairasuil HPS	180	152	120	130	2.98	124	2.92	0.06
Salai-HPS	690	575	644	625	13.62	568	13.88	-0.26
Tanakpur-HPS	94	94	93	94	2.25	94	2.24	0.01
Uri-HPS	480	459	478	74	10.76	448	10.09	0.66
Dhauliganga-HPS	280	277	278	277	6.71	280	6.72	-0.01
Dulhasti-HPS	390	387	404	398	9.22	384	9.29	-0.07
Sewa-II HPS	120	80	83	79	1.87	78	1.90	-0.03
Sub Total (C)	3305	3074	3175	2751	72.58	3024	72.26	0.32
D.NJPC								
Natpha Jhakri	1500	1605	1516	1004	27.48	1145	25.80	1.68
Sub Total (D)	1500	1605	1516	1004	27.48	1145	25.80	1.68
E. THDC								
Tehri HPS	1000	1050	1054	719	22.10	921	22.00	0.10
Koteshwar HPS	400	382	393	99	7.60	317	7.50	0.10
Sub Total (E)	1400	1432	1447	818	29.71	1238	29.50	0.21
F. BBMB								
Bhakra HPS	1480	617	1105	418	15.41	642	14.82	0.59
Dehar HPS	990	616	660	640	15.11	630	14.79	0.32
Pong HPS	396	180	366	60	4.49	187	5.01	-0.52
Sub Total (F)	2866	1414	2131	1118	35.01	1459	34.61	0.40
G. IPP(s)/JV(s)								
ADHPL HPS(IPP)	192	0	118	82	2.36	98	2.04	0.32
KWHEP HPS(IPP)	1000	0	890	502	14.11	588	14.43	-0.33
Malana Stg-II HPS	100	0	45	43	0.01	0	0.98	-0.96
Shree Cement TPS	300	0	120	75	2.33	97	1.57	0.76
Budhil HPS(IPP)	70	0	59	9	1.07	45	0.20	0.87
Sub Total (G)	1662	0	1232	711	19.88	828	19.23	0.65
H. Total Regional Entities (A-G)	22336	16443	18182	13148	355.26	14802	356.63	-1.37

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	633	540	13.54	564	
	Guru Nanak Dev TPS(Bhatinda)	440	100	0	1.22	51	
	Guru Hargobind Singh TPS(L.mbt)	920	952	946	20.74	864	
	Thermal (Total)	2620	1685	1486	35.50	1479	
	Total Hydro	1148	458	96	4.86	203	
	Total Punjab	3768	2143	1582	40.36	1682	
Haryana	Panipat TPS	1367	1078	1091	25.20	1050	
	DCRTPP (Yamuna nagar)	600	0	0	0.00	0	
	Faridabad GPS (NTPC)	432	277	158	5.00	209	
	RGTPP (kheadar) (IPP)	1200	440	447	10.42	434	
	Magnum Diesel (IPP)	25	0	0	0.00	0	
	Jhajjar(CLP)	1320	0	0	0.03	1	
	Thermal (Total)	4944	1795	1696	40.66	1694	
	Total Hydro	62	30	31	0.80	33	
	Total Haryana	5006	1825	1727	41.46	1727	
Rajasthan	kota TPS	1240	850	814	18.69	779	
	suratgarh TPS	1500	1062	1098	24.44	1019	
	Chabra TPS	500	223	225	5.53	230	
	Dholpur GPS	330	206	132	3.52	147	
	Ramgarh GPS	111	57	58	1.49	62	
	RAPS A (NPC)	300	179	179	4.43	185	
	Barsingar (NLC)	250	104	109	2.33	97	
	Giral LTPS	250	0	0	0.00	0	
	Rajwest LTPS (IPP)	540	468	423	9.83	410	
	VSLP LTPS (IPP)	135	0	0	0.00	0	
	Thermal (Total)	5156	3149	3038	70.26	2927	
	Total Hydro	550	88	49	1.69	70	
	Wind power	1843	105	398	5.34	223	
	Biomass	91	12	12	0.29	12	
	Solar	128	0	0	0.11	5	
	Renewable/Others (Total)	2062	117	410	7.43	310	
	Total Rajasthan	7767	3354	3497	79.38	3307	
	UP	Anpara TPS	1630	1151	1131	24.00	1000
		Obra TPS	1382	269	283	6.20	258
		Paricha TPS	890	485	587	11.80	492
Panki TPS		210	115	115	2.50	104	
Harduaganj TPS		665	200	233	4.60	192	
Tanda TPS (NTPC)		440	399	391	9.63	401	
Roza TPS (IPP)		1200	540	540	12.84	535	
Anpara-C (IPP)		1200	428	474	10.84	452	
Bajaj Energy Pvt.Ltd(IPP) TPS		450	147	67	2.39	100	
Thermal (Total)		8067	3734	3821	84.80	3533	
Vishnuparyag HPS (IPP)		400	436	436	10.46	436	
Other Hydro		527	281	0	6.03	251	
Cogeneration		981	20	20	0.48	20	
Total UP		9975	4471	4277	101.77	3805	
Uttarakhand		Total Hydro	1303	902	905	21.70	904
		Total Uttarakhand	1303	902	905	21.70	904
Delhi	Raighat TPS	135	102	99	2.69	112	
	Delhi Gas Turbine	282	73	72	1.95	81	
	Pragati Gas Turbine	330	295	258	7.00	292	
	Rithala GPS	108	21	0	0.30	12	
	Bawana GPS	677	0	0	0.00	0	
	Badarpur TPS (NTPC)	705	600	545	12.67	528	
	Thermal (Total)	2237	1091	974	24.60	1025	
	Total Delhi	2237	1091	974	24.60	1025	
HP	Baspa HPS (IPP)	330	329	150	4.95	206	
	Malana HPS (IPP)	86	54	14	1.18	49	
	Other Hydro	589	568	568	13.36	557	
	Total HP	1005	951	732	19	812	
J & K	Baglihar HPS (IPP)	450	442	438	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	648	15.32	639	
Total State Control Area Generation		32017	15364	14342	344.09	13901	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			1539	3575	70.70	2946	
Total Regional Availability(Gross)		54353	35085	31065	770.05	31649	

IV. Total Hydro Generation:

Regional Entities Hydro	10364	9322	6318	181.25	7552
State Control Area Hydro	5368	3337	2461	80.36	2912
Total Regional Hydro	15731	12659	8779	261.61	10464

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	250	350	50	4.89	0.09	4.80		
Gwalior-Agra (D/C)	140	661	805	112	12.67	0.00	12.67		
Zerda-Kankroli	-18	61	83	130	0.60	0.00	0.60		
Zerda-Bhinmal	43	74	163	119	1.65	0.00	1.65		
Malanpur-Auraiya	-126	-26	0	126	0.00	1.19	-1.19		
Badod-Kota/Morak	-27	37	65	55	0.89	0.00	0.89		
Mundra-Mohindergarh(HVDC)	587	596	600	0	14.45	0.00	14.45		
Sub Total WR	599	1653			35.15	1.28	33.87		
Pusauli Bypass	250	250	250	0	6.01	0.00	6.01		
MZP- GKP (D/C)	292	724	724	0	13.20	0.00	13.20		
Patna-Balia(D/C)	225	336	353	0	4.30	0.00	4.30		
B'Sharif-Balia (D/C)	136	381	403	0	6.56	0.00	6.56		
Barh - Balia(D/C)	0	0	385	0	2.49	0.00	2.49		
Pusauli-Balia	-97	-6	0	97	0.00	0.95	-0.95		
Gaya-Fatehpur (765 Kv)	33	109	198	0	2.54	0.00	2.54		
Pusauli-Sahupuri	146	153	206	0	3.67	0.00	3.67		
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	940	1922			38.77	1.93	36.83		
Total IR Exch	1539	3575			73.91	3.21	70.70		

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
30.12	3.81	33.93	4.75	8.95	7.73	-1.82	0.30	-0.29
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
46.70	21.62	68.32	36.83	33.87	70.70	-9.87	12.25	2.38

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	1.08	93.89	92.81	76.71	6.11
Frequency (Hz)				Average Frequency	Frequency Variation Index	Std. Dev.	Frequency in 15 Min Block	
Maximum		Minimum		Hz			MAX (Hz)	MIN (Hz)
50.46	12.33	49.69	18.51	50.11	0.29	0.10	50.38	49.82

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	3:04	408	18:39	0.0	0.0	0.0	0.0
Gorakhpur	400	431	20:46	416	10:47	0.0	0.0	73.8	0.6
Bareilly	400	419	3:20	400	10:20	0.0	0.0	0.0	0.0
Kanpur	400	421	3:05	407	10:14	0.0	0.0	1.0	0.0
Dadri	400	420	3:04	404	11:46	0.0	0.0	0.0	0.0
Ballabhgarh	400	427	3:05	408	10:17	0.0	0.0	39.5	0.0
Bawana	400	423	3:08	398	11:01	0.0	0.0	10.6	0.0
Bassi	400	425	3:05	405	10:20	0.0	0.0	32.0	0.0
Hissar	400	414	2:40	401	10:13	0.0	0.0	0.0	0.0
Moga	400	413	2:42	401	9:20	0.0	0.0	0.0	0.0
Abdullapur	400	421	3:11	400	10:27	0.3	0.3	1.8	0.0
Nalagarh	400	420	3:20	405	10:18	0.0	0.0	0.0	0.0
Kishenpur	400	415	23:56	401	19:11	0.0	0.0	0.0	0.0
Wagoora	400	414	23:57	387	19:11	0.0	4.7	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	504.84	1298.95	512.17	1650.87	749.06	399.89
Pong	426.72	384.05	422.39	1005.78	423.84	1082.23	657.94	253.58
Tehri	829.79	740.04	822.80	1065.00	818.65	982.26	328.35	482.00
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 21.09.2012 :

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 : 21.09.2012

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER