

पावर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरसिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 19.09.2012
Date of Reporting : 20.09.2012

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
32840	3314	36154	50.09	28444	750	29194	50.41	730.5	34.08

* 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	11.68	5.42		17.09	93.09	93.02	-0.06	110.11	1.80
Haryana	43.01	0.80		43.81	64.26	64.88	0.61	108.69	0.78
Rajasthan	75.72	1.74	3.32	80.77	49.67	55.21	5.54	135.98	1.76
Delhi	23.22			23.22	62.87	60.04	-2.84	83.25	0.05
UP	84.59	16.81	0.48	101.88	105.48	103.39	-2.09	205.27	26.71
Uttarakhand		20.00		20.00	10.89	10.43	-0.45	30.43	0.00
HP		21.40		21.40	0.09	1.06	0.98	22.46	1.28
J & K		15.32	0.00	15.32	16.60	14.35	-2.26	29.67	1.70
Chandigarh				0.00	5.52	4.67	-0.84	4.67	0.00
Total	238.21	81.49	3.80	323.49	408.46	407.05	-1.41	730.54	34.08

* 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	4903	600	-45	1421	4072	0	-98	2100	47.72
Haryana	5375	250	-81	594	4417	0	85	622	15.14
Rajasthan	5844	277	78	152	5441	0	159	171	3.85
Delhi	3932	0	-87	109	2868	0	0	111	3.57
UP	8635	1988	-167	493	8609	750	35	741	13.53
Uttarakhand	1515	0	103	-42	1097	0	-125	-159	-2.92
HP	740	99	-226	-1047	881	0	72	-1019	-24.62
J&K	1662	100	61	-252	915	0	-23	-404	-7.93
Chandigarh	234	0	-20	14	144	0	-32	-20	0.54
Total	32840	3314	-384	1442	28444	750	74	2143	48.87

* 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	Off Peak MW	Energy	Average	Schedule	UI
				(Gross)	(Gross)	(Net MU)	Sentout(MW)	Net MU	Net MU
A. NTPC	Singrauli STPS	2000	1430	1550	1264	31.53	1314	31.48	0.05
	Rihand I STPS	1000	806	910	613	17.30	721	17.57	-0.27
	Rihand II STPS	1000	822	1027	605	18.14	756	17.99	0.14
	Rihand III STPS	500		0	0	0.00	0		0.00
	Dadri I STPS	840	600	602	456	10.56	440	11.69	-1.13
	Dadri II STPS	980	970	925	709	18.85	786	19.90	-1.05
	Unchahar I TPS	420	197	215	163	3.99	166	4.12	-0.12
	Unchahar II TPS	420	400	431	307	7.32	305	7.42	-0.10
	Unchahar III TPS	210	199	204	152	3.77	157	3.89	-0.12
	ISTPP (Jhajihar)	1000	950	433	331	8.56	357	8.98	-0.41
	Dadri GPS	830	798	378	335	8.36	348	8.73	-0.37
	Anta GPS	419	394	202	194	4.79	200	4.80	-0.01
	Auraiya GPS	663	420	238	216	5.78	241	5.67	0.10
	Sub Total (A)	10282	7986	7115	5345	138.96	5790	142.25	-3.29
	B. NPC	NAPS	440	258	303	303	6.32	263	6.19
RAPS- B		440	408	449	454	9.73	406	9.79	-0.06
RAPS- C		440	410	461	463	9.88	412	9.84	0.04
Sub Total (B)		1320	1076	1208	1208	25.93	1080	25.82	0.10
C. NHPC	Chamera I HPS	540	534	540	540	12.83	535	12.81	0.02
	Chamera II HPS	300	292	301	295	7.13	297	7.06	0.07
	Chamera III HPS	231	231	234	233	5.55	231	5.35	0.20
	Bairasuil HPS	180	182	182	182	4.02	167	3.76	0.26
	Salal-HPS	690	647	657	650	15.60	650	15.59	0.02
	Tanakpur-HPS	94	38	94	0	0.87	36	0.97	-0.10
	Uri-HPS	480	460	479	473	11.11	463	10.57	0.54
	Dhauliganga-HPS	280	277	279	268	6.69	279	6.68	0.00
	Dulhasti-HPS	390	326	404	136	7.67	320	7.58	0.09
	Sewa-II HPS	120	80	85	57	1.92	80	1.80	0.12
	Sub Total (C)	3305	3066	3255	2834	73.39	3058	72.18	1.21
	D.NJPC	Nathpa Jhakri	1500	1605	1523	1008	30.15	1256	31.39
Sub Total (D)		1500	1605	1523	1008	30.15	1256	31.39	-1.24
E. THDC	Tehri HPS	1000	1050	1050	1000	24.79	1033	25.00	-0.21
	Sub Total (E)	1400	1430	1433	1271	32.35	1348	32.50	-0.15
F. BBMB	Bhakra HPS	1480	577	1101	405	14.21	592	13.85	0.36
	Dehar HPS	990	617	660	620	14.84	618	14.81	0.03
	Pong HPS	396	68	306	60	1.67	70	5.01	-3.34
	Sub Total (F)	2866	1262	2067	1085	30.72	1280	33.66	-2.94
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	166	82	2.99	124	2.60	0.38
	KWHEP HPS(IPP)	1000	0	660	660	16.68	695	17.12	-0.44
	Malana Stg-II HPS	100	0	81	70	1.35	56	1.65	-0.30
	Shree Cement TPS	300	0	120	43	1.89	79	1.74	0.15
	Budhil HPS(IPP)	70	0	19	9	0.25	10	0.20	0.04
	Sub Total (G)	1662	0	1046	864	23.15	965	23.32	-0.17
H. Total Regional Entities (A-G)	22336	16426	17647	13627	354.65	14777	361.12	-6.47	

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	180	4.16	173	
	Guru Nanak Dev TPS(Bhatinda)	440	108	90	2.15	90	
	Guru Hargobind Singh TPS(L.mbt)	920	248	180	5.37	224	
	Thermal (Total)	2620	566	450	11.68	487	
	Total Hydro	1148	523	95	5.42	226	
	Total Punjab	3768	1089	545	17.09	712	
Haryana	Panipat TPS	1367	1088	1120	28.40	1183	
	DCRTPP (Yamuna nagar)	600	0	0	0.00	0	
	Faridabad GPS (NTPC)	432	157	141	3.46	144	
	RGTPP (khedar) (IPP)	1200	671	437	10.69	446	
	Magnum Diesel (IPP)	25	0	0	0.00	0	
	Jhajjar(CLP)	1320	455	227	0.46	19	
	Thermal (Total)	4944	2371	1925	43.01	1792	
	Total Hydro	62	33	30	0.80	33	
	Total Haryana	5006	2404	1955	43.81	1825	
	Rajasthan	kota TPS	1240	849	841	20.33	847
		suratgarh TPS	1500	1121	1077	25.57	1065
Chabra TPS		500	417	443	10.17	424	
Dholpur GPS		330	135	130	3.09	129	
Ramgarh GPS		111	57	58	1.48	62	
RAPS A (NPC)		300	179	179	4.18	174	
Barsingsar (NLC)		250	102	0	1.93	80	
Giral LTPS		250	0	0	0.00	0	
Rajwest LTPS (IPP)		540	389	450	8.97	374	
VSLP LTPS (IPP)		135	0	0	0.00	0	
Thermal (Total)		5156	3249	3178	75.72	3155	
Total Hydro		550	97	115	1.74	72	
Wind power		1843	5	49	1.02	42	
Biomass		91	19	19	0.45	19	
Solar		128	0	0	0.11	5	
Renewable/Others (Total)		2062	24	68	3.32	138	
Total Rajasthan		7767	3370	3361	80.77	3366	
UP	Anpara TPS	1630	986	978	23.90	996	
	Obra TPS	1382	347	359	9.00	375	
	Paricha TPS	890	545	498	12.80	533	
	Panki TPS	210	108	81	2.20	92	
	Harduaganj TPS	665	212	238	4.80	200	
	Tanda TPS (NTPC)	440	395	387	9.49	395	
	Roza TPS (IPP)	1200	531	380	10.84	452	
	Anpara-C (IPP)	1200	482	481	10.61	442	
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	32	41	0.95	40	
	Thermal (Total)	8067	3638	3443	84.59	3525	
	Vishnuparyag HPS (IPP)	400	436	436	10.46	436	
	Other Hydro	527	255	0	6.34	264	
	Cogeneration	981	20	20	0.48	20	
	Total UP	9975	4349	3899	101.88	3809	
Uttarakhand	Total Hydro	1303	857	838	20.00	833	
	Total Uttarakhand	1303	857	838	20.00	833	
Delhi	Raighat TPS	135	96	73	2.01	84	
	Delhi Gas Turbine	282	77	71	1.88	78	
	Pragati Gas Turbine	330	295	266	6.93	289	
	Rithala GPS	108	20	21	0.40	17	
	Bawana GPS	677	0	0	0.00	0	
	Badarpur TPS (NTPC)	705	580	520	12.00	500	
	Thermal (Total)	2237	1068	951	23.22	967	
Total Delhi	2237	1068	951	23.22	967		
HP	Baspa HPS (IPP)	330	240	280	6.28	262	
	Malana HPS (IPP)	86	67	78	1.70	71	
	Other Hydro	589	569	538	13.42	559	
	Total HP	1005	876	896	21	892	
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	14640	13093	323.49	13043	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			1794	2214	68.84	2868	
Total Regional Availability(Gross)		54353	34081	28934	746.99	30689	

IV. Total Hydro Generation:

Regional Entities Hydro	10364	9185	7010	187.63	7818
State Control Area Hydro	5368	3268	2622	81.49	2959
Total Regional Hydro	15731	12453	9632	269.12	10777

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	50	300	0	3.23	0.00	3.23
Gwalior-Agra (D/C)	227	218	794	0	11.44	0.00	11.44
Zerda-Kankroli	-40	-111	37	120	0.00	0.91	-0.91
Zerda-Bhinmal	7	-80	124	113	0.37	0.00	0.37
Malanpur-Auraiya	-119	-66	0	134	0.00	1.37	-1.37
Badod-Kota/Morak	-15	13	104	20	0.94	0.00	0.94
Mundra-Mohindergarh(HVDC)	585	592	598	0	14.07	0.00	14.07
Sub Total WR	945	616			30.04	2.28	27.76
Pusauli Bypass	250	150	250	0	4.81	0.00	4.81
MZP- GKP (D/C)	258	670	834	0	14.27	0.00	14.27
Patna-Balia(D/C)	141	328	445	0	6.72	0.00	6.72
B'Sharif-Balia (D/C)	84	325	497	0	6.71	0.00	6.71
Barh - Balia(D/C)	169	0	364	0	4.04	0.00	4.04
Pusauli-Balia	-226	-95	40	235	0.00	0.99	-0.99
Gaya-Fatehpur (765 Kv)	75	98	184	0	2.78	0.00	2.78
Pusauli-Sahupuri	143	147	175	0	3.74	0.00	3.74
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	849	1598			43.05	1.97	41.08
Total IR Exch	1794	2214			73.09	4.25	68.84

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
24.10	3.72	27.82	11.97	16.17	8.22	-10.50	-0.84	0.87

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
47.18	17.32	64.49	41.08	27.76	68.84	-6.09	10.44	4.35

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	0.40	0.90	80.90	77.10	70.60	18.70

<----- 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					
50.41	6.04	49.49	22.11	50.07	0.48	0.14	50.43	49.91

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	417	03:20	405	22:09	0.0	0.0	0.0	0.0
Gorakhpur	400	429	07:24	414	22:49	0.0	0.0	78.1	0.0
Bareilly	400	424	02:58	404	10:15	0.0	0.0	5.4	0.0
Kanpur	400	427	02:55	409	22:10	0.0	0.0	24.5	0.0
Dadri	400	424	04:03	408	12:19	0.0	0.0	11.5	0.0
Ballabgarh	400	431	02:54	411	09:58	0.0	0.0	35.3	0.2
Bawana	400	426	02:54	409	10:13	0.0	0.0	19.9	0.0
Bassi	400	435	03:04	409	10:33	0.0	0.0	51.7	6.2
Hissar	400	420	02:54	401	11:20	0.0	0.0	0.0	0.0
Moga	400	417	02:53	399	11:21	0.0	0.0	0.0	0.0
Abdullapur	400	422	02:51	289	19:51	0.1	0.1	9.4	0.0
Nalagarh	400	421	00:00	405	10:08	0.0	0.0	3.8	0.0
Kishenpur	400	419	02:40	403	19:48	0.0	0.0	0.0	0.0
Wagoora	400	416	03:47	390	20:05	0.0	0.0	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 (m ³ /s)	Usage (m ³ /s)
Bhakra	513.59	445.62	504.34	1285.56	512.31	1667.20	993.07	360.50
Pong	426.72	384.05	421.97	975.89	423.84	1082.23	1677.60	93.87
Tehri	829.79	740.04	823.08	1065.64	818.65	982.26	437.72	541.00
Koteswar	612.50	598.50	NA	NA	NA	NA	NA	NA
Chamera-I	760.00	748.75	NA	NA	NA	NA	289.13	347.89
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 19.09.2012 :
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 : 19.09.2012

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER