

पावर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 21.09.2011
Date of Reporting : 22.09.2011

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
33386	2356	35742	49.99	30282	1030	31312	50.06	750.7	30.00

* Half hourly (two 15 minutes block--one block each before and after the designated time) average frequency

II. A. State's Load Energy 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)	Consumption (Net MU)	Shortages* (MU)
	Thermal	Hydro	Renewable/others	Total					
Punjab	36.07	16.98		53.05	79.30	78.53	-0.77	131.58	1.80
Haryana	70.57	1.02		71.59	42.48	38.37	-4.11	109.96	0.60
Rajasthan	60.39	1.80	7.14	69.33	36.28	45.87	9.59	115.20	0.54
Delhi	24.43			24.43	66.81	63.15	-3.67	87.58	0.28
UP	64.56	18.12	0.60	83.28	125.37	140.73	15.37	224.01	26.11
Uttarakhand		21.11		21.11	6.84	7.39	0.55	28.50	0.00
HP		20.12		20.12	2.45	2.35	-0.11	22.46	0.67
J & K		14.02	0.00	14.02	16.18	12.56	-3.62	26.58	0.00
Chandigarh				0.00	5.48	4.87	-0.62	4.87	0.00
Total	256.01	93.17	7.74	356.93	381.19	393.80	12.61	750.73	30.00

* Shortage furnished by the respective constituent.

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	5831	600	-227	890	5253	0	71	953	21.68
Haryana	5343	372	191	462	4199	0	-61	462	9.98
Rajasthan	4996	0	493	-355	4872	0	298	-408	-9.46
Delhi	3957	69	-361	353	3106	0	-180	303	8.12
UP	9151	1315	293	1294	9933	1030	833	1006	28.14
Uttarakhand	1427	0	170	-200	1108	0	-78	-200	-4.80
HP	1065	0	-4	-1576	824	0	-24	-1224	-33.01
J&K	1380	0	-34	-375	832	0	-370	-275	-8.10
Chandigarh	236	0	-22	30	155	0	-35	30	0.72
Total	33386	2356	499	523	30282	1030	454	648	13.26

* 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 (Gross)	Off Peak MW (Gross)	Energy (Net MU)	Average Sentout(MW)	Schedule Net MU	UI Net MU
A. NTPC	Singrauli STPS	2000	1725	1856	1627	40.61	1692	40.35	0.25
	Rihand I STPS	1000	950	1035	1015	22.44	935	22.06	0.38
	Rihand II STPS	1000	474	510	479	11.26	469	11.04	0.22
	Dadri I STPS	840	800	858	644	16.04	668	15.98	0.06
	Dadri II STPS	980	842	964	433	18.95	789	19.07	-0.12
	Unchahar I TPS	440	327	371	399	7.81	326	7.74	0.07
	Unchahar II TPS	440	162	191	149	3.78	157	3.75	0.03
	Unchahar III TPS	210	162	194	150	3.81	159	3.75	0.07
	ISTPP (Jhajjar)	500	470	0	0	0.00	0	0.00	0.00
	Dadri GPS	830	780	673	624	15.24	635	15.39	-0.16
	Anta GPS	419	391	329	324	8.08	337	7.77	0.31
	Auraiya GPS	663	619	467	432	10.30	429	10.41	-0.11
	Sub Total (A)	9322	7702	7448	6276	158.31	6596	157.31	1.00
	B. NPC	NAPS	440	190	227	229	4.57	191	4.56
RAPS- B		440	200	216	219	4.65	194	4.81	-0.16
RAPS- C		440	420	474	477	10.20	425	10.08	0.12
Sub Total (B)		1320	810	917	925	19.42	809	19.45	-0.03
C. NHPC	Chamera I HPS	540	534	540	540	12.28	512	12.24	0.05
	Chamera II HPS	300	297	300	298	6.15	256	6.20	-0.05
	Bairasuil HPS	180	148	179	60	2.33	97	2.25	0.08
	Salal-HPS	690	591	614	545	14.05	585	14.18	-0.14
	Tanakpur-HPS	94	94	94	94	2.28	95	2.24	0.03
	Uri-HPS	480	475	479	480	11.35	473	11.34	0.01
	Dhauliganga-HPS	280	277	279	208	5.76	240	5.59	0.17
	Dulhasti-HPS	390	387	414	308	9.09	379	8.67	0.42
	Sewa-II HPS	120	119	122	122	2.91	121	2.88	0.03
	Sub Total (C)	3074	2921	3021	2655	66.20	2758	65.60	0.60
D. NJPC	Nathpa Jhakri	1500	1600	1604	844	28.63	1193	28.43	0.20
	Sub Total (D)	1500	1600	1604	844	28.63	1193	28.43	0.20
E. THDC	Tehri HPS	1000	1050	1018	1044	21.26	886	21.00	0.26
	Koteshwar HPS	100	87	88	88	2.05	85	2.09	-0.04
	Sub Total (E)	1100	1137	1106	1132	23.31	971	23.09	0.22
F. BBMB	Bhakra HPS	1480	1167	1231	1255	28.44	1185	28.00	0.44
	Dehar HPS	990	577	825	625	14.58	608	13.85	0.73
	Pong HPS	396	239	306	186	6.06	253	5.74	0.32
	Sub Total (F)	2866	1983	2362	2066	49.08	2045	47.59	1.49
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	64	64	1.55	64	1.50	0.05
	KWHEP HPS(IPP)	1000	0	650	650	15.60	650	15.60	0.00
	Malana Stg-II HPS	100	0	69	61	1.39	58	0.00	1.39
	Shree Cement TPS	150	0	0	0	0.00	0	0.00	0.00
	Sub Total (G)	1442	0	783	775	18.53	772	17.10	1.43
H. Total Regional Entities (A-G)	20625	16154	17241	14673	363.48	15145	358.56	4.92	

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	1010.00	805.00	18.52	772	
	Guru Nanak Dev TPS(Bhatinda)	440	102.00	95.00	2.00	83	
	Guru Hargobind Singh TPS(L.mbt)	920	721.00	707.00	15.55	648	
	Thermal (Total)	2620	1833.00	1607.00	36.07	1503	
	Total Hydro	1148	845.00	566.00	16.98	708	
	Total Punjab	3768	2678	2173	53.05	2211	
Haryana	Panipat TPS	1360	1103.00	1075.00	26.09	1087	
	DCRTPP (Yamuna nagar)	600	539.00	521.00	12.08	503	
	Faridabad GPS (NTPC)	432	399.00	301.00	8.06	336	
	RGTPP (khedar) (IPP)	1200	831.00	1027.00	24.33	1014	
	Magnum Diesel (IPP)	25	0.00	0.00	0.00	0	
	Thermal (Total)	3617	2872.00	2924.00	70.57	2940	
	Total Hydro	62	39.00	39.00	1.02	43	
	Total Haryana	3679	2911	2963	71.59	2983	
Rajasthan	kota TPS	1240	780.00	775.00	18.46	769	
	suratgarh TPS	1500	1161.00	1108.00	26.74	1114	
	Chabra TPS	500	185.00	223.00	4.85	202	
	Dholpur GPS	330	130.00	133.00	3.19	133	
	Ramgarh GPS	113	62.00	62.00	1.63	68	
	RAPS A (NPC)	300	179.00	208.00	4.33	180	
	Barsingsar (NLC)	250	51.00	44.00	1.20	50	
	Giral LTPS (IPP)	250	0.00	0.00	0.00	0	
	Rajwest LTPS (IPP)	135	0.00	0.00	0.00	0	
	VSLP LTPS (IPP)	135	0.00	0.00	0.00	0	
	Thermal (Total)	4753	2548.00	2553.00	60.39	2516	
	Total Hydro	550	113.00	140.00	1.80	75	
	Wind power	1294	276.00	419.00	6.57	274	
	Biomass	71	25.00	25.00	0.57	24	
	Renewable/Others (Total)	1365	301	444	7.14	298	
	Total Rajasthan	6668	2962	3137	69.33	2889	
	UP	Anpara TPS	1630	1309	1184	29.40	1225
		Obra TPS	1442	581	560	13.60	567
Paricha TPS		640	361	0	5.90	246	
Panki TPS		210	45	45	1.20	50	
Harduaganj TPS		375	41	135	0.90	38	
Tanda TPS (NTPC)		440	285	271	6.91	288	
Roza TPS (IPP)		600	281	275	6.65	277	
Anpara-C (IPP)		600	0	0	0.00	0	
Thermal (Total)		5937	2903	2470	64.56	2690	
Vishnuparyag HPS (IPP)		400	436	436	10.46	436	
Other Hydro		527	363	0	7.66	319	
Cogeneration		951	25	25	0.60	25	
Total UP		7815	3727	2931	83.28	3034	
Uttarakhand		Total Hydro	1303	885	852	21.11	880
	Total Uttarakhand	1303	885	852	21.11	880	
Delhi	Rajghat TPS	135	106	104	2.37	99	
	Delhi Gas Turbine	282	84	112	2.11	88	
	Pragati Gas Turbine	330	295	303	7.21	301	
	Rithala GPS	108	29	29	0.63	26	
	Bawana GPS	440	0	0	0.00	0	
	Badarpur TPS (NTPC)	705	535	540	12.11	505	
	Thermal (Total)	2000	1049	1088	24.43	1018	
	Total Delhi	2000	1049	1088	24.43	1018	
HP	Baspa HPS (IPP)	330	319	199	5.90	246	
	Malana HPS (IPP)	101	50	50	1.13	47	
	Other Hydro	571	502	546	13.08	545	
	Total HP	1002	871	795	20	838	
J & K	Baglihar HPS (IPP)	450	442	442	10.64	443	
	Other Hydro	323	119	166	3.38	141	
	Gas/Diesel/Others	183	0	0	0.00	0	
	Total J & K	956	561	608	14.02	584	
Total State Control Area Generation		27191	15644	14547	356.93	14436	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			1409	1905	39.49	1645	
Total Regional Availability(Gross)		47816	34294	31125	759.89	31227	

IV. Total Hydro Generation:

Regional Entities Hydro	9983	8876	7472	185.75	7739
State Control Area Hydro	5365	3677	3000	82.72	3447
Total Regional Hydro	15347	12553	10472	268.46	11186

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	200	0	200	200	2.49	0.45	2.04
Gwalior-Agra (D/C)	189	617	821	0	12.70	0.00	12.70
Zerda-Kankroli	32	56	161	196	0.99	0.00	0.99
Zerda-Bhinmal	78	76	258	126	0.00	1.85	-1.85
Malanpur-Auraiya	-129	-39	0	129	0.00	1.20	-1.20
Badod-Kota/Morak	0	0	0	0	0.00	0.00	0.00
Sub Total WR	370	710			16.18	3.50	12.68
Pusauli Bypass	-88	-130	59	179	0.05	1.87	-1.82
MZP- GKP (D/C)	544	738	1012	0	15.70	0.00	15.70
Patna-Balia(D/C)	123	197	257	0	4.35	0.00	4.35
B' Sharif-Balia (D/C)	181	282	393	0	5.91	0.00	5.91
Barh - balia(D/C)	0	0	0	0	0.00	0.00	0.00
Pusauli-Sahupuri	156	140	179	0	3.66	0.00	3.66
K'nasa-Sahupuri	158	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-35	-32	0	38	0.00	0.99	-0.99
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sub Total ER	1039	1195			29.67	2.86	26.81
Total IR Exch	1409	1905			45.85	6.36	39.49

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
18.62	3.67	22.28	-0.10	14.68	-1.91	1.24	0.00	0.00

Total IR Schedule (MU)			Total IR Actual (MU)			Net IR UI (MU)		
Through ER	Through WR	Total	Through ER	Through WR	Total	Through ER	Through WR	Total
20.28	14.99	35.27	26.81	12.68	39.49	6.53	-2.31	4.22

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	0.00	0.50	8.70	99.20	91.00	22.20	0.30

<----- Frequency (Hz) ----->				Average Frequency	Frequency Variation Index	Std. Dev.	Frequency in 15 Min Block	
Maximum		Minimum					MAX	MIN
Freq	Time	Freq	Time	Hz	Index		(Hz)	(Hz)
50.27	9.18	49.38	18.39	49.89	0.31	0.14	50.18	0.00

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	419	04:50	409	15:58	0.0	0.0	0.0	0.0
Gorakhpur	400	436	07:43	416	11:09	0.0	0.0	75.1	5.4
Bareilly	400	419	08:00	397	15:40	0.0	0.0	0.0	0.0
Kanpur	400	421	09:00	398	15:56	0.0	0.0	0.6	0.0
Dadri	400	414	05:05	396	15:13	0.0	0.0	0.0	0.0
Ballabgarh	400	421	07:35	398	15:19	0.0	0.0	0.1	0.0
Bawana	400	416	07:05	397	18:41	0.0	0.0	0.0	0.0
Bassi	400	429	03:44	404	18:42	0.0	0.0	42.4	0.0
Hissar	400	415	03:17	399	18:39	0.0	0.0	0.0	0.0
Moga	400	421	03:01	407	18:39	0.0	0.0	4.4	0.0
Abdullapur	400	413	03:14	394	18:41	0.0	0.0	0.0	0.0
Nalagarh	400	0	00:00	9999	00:00	0.0	0.0	0.0	0.0
Kishenpur	400	417	03:44	403	18:57	0.0	0.0	0.0	0.0
Wagoora	400	409	00:04	385	19:00	0.0	21.6	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	512.17	1650.87	512.42	1667.20	721.43	864.57
Pong	426.72	384.05	423.84	1082.23	424.62	1114.45	308.37	335.19
Tehri	829.79	740.04	817.55	942.25	NA	NA	308.32	476.00
Koteswar	612.50	598.50	608.30	3.76	NA	NA	476.00	138.00
Chamera-I	760.00	748.75	756.90	11.97	756.20	NA	306.33	348.55
Rihand	268.22	252.98	265.60	656.80	257.80	192.40	NA	NA
RPS	352.80	343.81	349.75	349.17	NA	NA	35.99	47.71
Jawahar Sagar	298.70	295.78	297.64	298.09	NA	NA	NA	NA
RSD	527.91	487.91	524.88	NA	524.00	NA	404.17	374.29

IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

XI. Weather Conditions For 21.09.2011 :

Normal weather

XII. Synchronisation of new generating units :

XIII. Synchronisation of new 400 / 765 KV lines and energising of bus / substation :

400 KV Karcham Wangtoo-Abdullapur-II 1st time test charged upto 146 kM (out of 213 kM) from Abdullapur end on 21.09.2011 at 15.01 hrs.

XIV. Tripping of lines in pooling stations :

XV. Complete generation loss in a generating station :

Report for : 21.09.2011

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER