

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 19.09.2011
Date of Reporting : 20.09.2011

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
31677	2746	34423	49.93	27908	650	28558	50.09	705.0	28.41

* 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	22.39	22.52		44.91	80.29	73.88	-6.41	118.79	1.80
Haryana	59.20	1.00		60.19	42.28	38.44	-3.84	98.63	1.28
Rajasthan	58.26	2.11	8.01	68.38	37.19	40.45	3.27	108.83	0.56
Delhi	24.84			24.84	58.34	62.12	3.78	86.96	0.43
UP	60.59	18.73	0.60	79.92	123.97	130.63	6.66	210.55	24.20
Uttarakhand		21.72		21.72	4.97	7.02	2.05	28.75	0.15
HP		21.83		21.83	0.72	0.12	-0.60	21.95	0.00
J & K		14.02	0.00	14.02	16.44	11.53	-4.90	25.55	0.00
Chandigarh				0.00	5.37	4.94	-0.43	4.94	0.00
Total	225.27	101.93	8.61	335.80	369.57	369.15	-0.42	704.95	28.41

* 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	5356	600	-130	985	4668	0	-296	1048	23.94
Haryana	4615	645	-13	462	3860	0	-400	462	10.23
Rajasthan	4786	36	279	-345	4425	0	15	-408	-9.42
Delhi	4161	0	221	249	3013	0	275	199	5.63
UP	8880	1315	293	1335	9175	650	720	1142	30.64
Uttarakhand	1267	150	31	-200	1005	0	-135	-200	-4.80
HP	1037	0	34	-1396	777	0	-99	-1138	-30.22
J&K	1336	0	-42	-375	828	0	-435	-275	-8.10
Chandigarh	239	0	-12	30	157	0	-32	30	0.72
Total	31677	2746	661	745	27908	650	-387	859	18.62

* 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	1710	1861	1685	38.56	1606	37.21	1.34
	Rihand I STPS	1000	930	1025	750	20.48	853	19.46	1.02
	Rihand II STPS	1000	445	512	390	9.98	416	9.30	0.68
	Dadri I STPS	840	800	872	608	17.58	733	17.03	0.55
	Dadri II STPS	980	470	502	376	16.19	675	10.25	5.94
	Unchahar I TPS	440	379	341	310	7.74	323	7.71	0.03
	Unchahar II TPS	440	183	161	154	3.54	148	3.54	0.00
	Unchahar III TPS	210	186	182	160	3.84	160	3.69	0.15
	ISTPP (Jhajjar)	500	470	0	0	0.00	0	0.00	0.00
	Dadri GPS	830	805	664	489	12.25	510	12.85	-0.60
	Anta GPS	419	389	250	225	5.94	248	5.94	0.00
	Auraiya GPS	663	614	458	316	8.40	350	8.88	-0.48
	Sub Total (A)	9322	7380	6828	5463	144.50	6021	135.86	8.64
	B. NPC	NAPS	440	190	228	227	4.48	187	4.56
RAPS- B		440	190	213	216	4.65	194	4.56	0.09
RAPS- C		440	420	473	478	10.72	447	10.08	0.64
Sub Total (B)		1320	800	914	921	19.85	827	19.20	0.65
C. NHPC	Chamera I HPS	540	534	540	540	12.85	535	12.82	0.03
	Chamera II HPS	300	297	301	300	6.86	286	6.63	0.23
	Bairasuil HPS	180	179	170	60	3.25	136	3.14	0.11
	Salal-HPS	690	630	629	629	15.15	631	15.11	0.04
	Tanakpur-HPS	94	37	60	94	0.89	37	0.89	0.00
	Uri-HPS	480	424	477	475	9.49	395	9.82	-0.34
	Dhauliganga-HPS	280	277	281	268	6.62	276	5.99	0.63
	Dulhasti-HPS	390	387	414	235	9.27	386	8.58	0.69
	Sewa-II HPS	120	119	124	120	2.90	121	2.79	0.11
	Sub Total (C)	3074	2884	2996	2721	67.27	2803	65.76	1.51
D.NJPC	Nathpa Jhakri	1500	1600	1604	1222	32.36	1348	31.60	0.76
	Sub Total (D)	1500	1600	1604	1222	32.36	1348	31.60	0.76
E. THDC	Tehri HPS	1000	911	1051	796	21.47	895	20.80	0.67
	Koteshwar HPS	100	87	92	84	2.08	87	2.10	-0.02
Sub Total (E)	1100	998	1143	880	23.55	981	22.90	0.65	
F. BBMB	Bhakra HPS	1480	1227	1256	1256	30.18	1258	29.45	0.73
	Dehar HPS	990	577	825	600	14.43	601	13.85	0.58
	Pong HPS	396	239	306	186	6.00	250	5.74	0.26
	Sub Total (F)	2866	2043	2387	2042	50.61	2109	49.04	1.57
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	87	88	2.07	86	2.04	0.03
	KWHEP HPS(IPP)	1000	0	732	779	17.89	745	16.80	1.09
	Malana Stg-II HPS	100	0	78	59	1.65	69	0.00	1.65
	Shree Cement TPS	150	0	0	0	0.00	0	0.00	0.00
Sub Total (G)	1442	0	897	926	21.61	900	18.84	2.76	
H. Total Regional Entities (A-G)	20625	15705	16769	14175	359.74	14989	343.20	16.54	

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	630.00	340.00	10.35	431
	Guru Nanak Dev TPS(Bhatinda)	440	105.00	95.00	1.98	82
	Guru Hargobind Singh TPS(L.mbt)	920	473.00	473.00	10.07	419
	Thermal (Total)	2620	1208.00	908.00	22.39	933
	Total Hydro	1148	939.00	878.00	22.52	938
	Total Punjab	3768	2147	1786	44.91	1871
Haryana	Panipat TPS	1360	803.00	89.00	20.10	838
	DCRTPP (Yamuna nagar)	600	510.00	505.00	11.46	478
	Faridabad GPS (NTPC)	432	190.00	195.00	4.66	194
	RGTPP (khedar) (IPP)	1200	869.00	884.00	22.97	957
	Magnum Diesel (IPP)	25	0.00	0.00	0.00	0
	Thermal (Total)	3617	2372.00	1673.00	59.20	2466
	Total Hydro	62	37.00	38.00	1.00	41
	Total Haryana	3679	2409	1711	60.19	2508
Rajasthan	kota TPS	1240	694.00	684.00	16.82	701
	suratgarh TPS	1500	1121.00	972.00	26.03	1084
	Chabra TPS	500	205.00	205.00	5.04	210
	Dholpur GPS	330	123.00	128.00	3.07	128
	Ramgarh GPS	113	62.00	62.00	1.60	67
	RAPS A (NPC)	300	196.00	194.00	4.29	179
	Barsingsar (NLC)	250	73.00	76.00	1.41	59
	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	2474.00	2321.00	58.26	2427
	Total Hydro	550	119.00	50.00	2.11	88
	Wind power	1294	211.00	485.00	7.47	311
	Biomass	71	23.00	23.00	0.53	22
	Renewable/Others (Total)	1365	234	508	8.01	334
	Total Rajasthan	6668	2827	2879	68.38	2849
	UP	Anpara TPS	1630	1179	1268	30.00
Obra TPS		1442	466	459	11.10	463
Paricha TPS		640	206	206	4.90	204
Panki TPS		210	63	41	1.10	46
Harduaganj TPS		375	36	43	1.00	42
Tanda TPS (NTPC)		440	287	166	6.55	273
Roza TPS (IPP)		600	284	198	5.94	247
Anpara-C (IPP)		600	0	0	0.00	0
Thermal (Total)		5937	2521	2381	60.59	2524
Vishnuparyag HPS (IPP)		400	436	436	10.46	436
Other Hydro		527	363	0	8.28	345
Cogeneration		951	25	25	0.60	25
Total UP		7815	3345	2842	79.92	2894
Uttarakhand		Total Hydro	1303	877	954	21.72
	Total Uttarakhand	1303	877	954	21.72	905
Delhi	Rajghat TPS	135	96	100	2.23	93
	Delhi Gas Turbine	282	155	112	3.17	132
	Pragati Gas Turbine	330	293	270	7.08	295
	Rithala GPS	108	26	29	0.64	27
	Bawana GPS	440	0	0	0.00	0
	Badarpur TPS (NTPC)	705	545	545	11.73	489
	Thermal (Total)	2000	1115	1056	24.84	1035
	Total Delhi	2000	1115	1056	24.84	1035
HP	Baspa HPS (IPP)	330	280	308	6.34	264
	Malana HPS (IPP)	101	67	64	1.37	57
	Other Hydro	571	598	598	14.12	588
	Total HP	1002	945	970	22	910
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	14226	12806	335.80	13556
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			2172	1453	35.74	1489
Total Regional Availability(Gross)		47816	33167	28434	731.27	30034

IV. Total Hydro Generation:

Regional Entities Hydro	9983	9027	7791	195.39	8141
State Control Area Hydro	5365	3841	3498	91.47	3811
Total Regional Hydro	15347	12868	11289	286.86	11953

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	0	-250	0	400	0.00	5.84	-5.84
Gwalior-Agra (D/C)	420	191	671	0	9.30	0.00	9.30
Zerda-Kankroli	188	-34	245	164	0.31	0.00	0.31
Zerda-Bhinmal	192	-4	284	126	1.19	0.00	1.19
Malanpur-Auraiya	-86	-4	0	90	0.00	1.26	-1.26
Badod-Kota/Morak	0	0	0	0	0.00	0.00	0.00
Sub Total WR	714	-101			10.80	7.10	3.71
Pusauli Bypass	-50	-40	118	281	1.16	1.53	-0.37
MZP- GKP (D/C)	772	1018	1186	0	20.85	0.00	20.85
Patna-Balia(D/C)	223	201	293	0	4.31	0.00	4.31
B'Sharif-Balia (D/C)	259	280	323	0	5.46	0.00	5.46
Barh - balia(D/C)	0	0	0	0	0.00	0.00	0.00
Pusauli-Sahupuri	131	127	167	0	2.78	0.00	2.78
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	1458	1554			34.55	2.52	32.03
Total IR Exch	2172	1453			45.35	9.62	35.74

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
17.72	3.61	21.34	0.11	19.53	-2.81	1.33	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
18.63	20.07	38.70	32.03	3.71	35.74	13.40	-16.36	-2.97

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	0.30	2.10	14.00	96.30	84.90	23.40	1.60

Frequency (Hz)				Average Frequency	Frequency Variation Index	Std. Dev.	Frequency in 15 Min Block	
Maximum		Minimum					MAX (Hz)	MIN (Hz)
Freq	Time	Freq	Time	Hz				
50.34	0.25	49.03	19.11	49.87	0.47	0.17	50.20	49.58

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	07:36	407	22:05	0.0	0.0	0.0	0.0
Gorakhpur	400	433	08:01	404	22:21	0.0	0.0	30.2	0.8
Bareilly	400	421	08:00	391	15:55	0.0	0.0	0.0	0.0
Kanpur	400	421	09:00	397	15:15	0.0	0.0	0.0	0.0
Dadri	400	416	07:36	394	15:07	0.0	0.0	0.0	0.0
Ballabgarh	400	421	07:36	396	15:51	0.0	0.0	0.1	0.0
Bawana	400	419	07:36	394	15:56	0.0	0.0	0.0	0.0
Bassi	400	427	03:39	401	15:08	0.0	0.0	18.8	0.0
Hissar	400	418	08:03	400	19:09	0.0	0.0	0.0	0.0
Moga	400	424	08:03	405	15:08	0.0	0.0	6.7	0.0
Abdullapur	400	414	07:34	393	18:53	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	420	04:32	402	10:53	0.0	0.0	0.0	0.0
Wagoora	400	412	04:32	384	20:04	0.0	11.6	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 (m³/s)	Usage (m³/s)
Bhakra	513.59	445.62	512.31	1667.20	512.25	1667.20	831.16	914.63
Pong	426.72	384.05	423.84	1082.23	424.63	1114.40	450.55	334.37
Tehri	829.79	740.04	817.70	962.25	NA	NA	350.93	480.00
Koteshwar	612.50	598.50	608.30	3.76	NA	NA	480.00	138.00
Chamera-I	760.00	748.75	755.55	12.81	756.20	NA	290.17	325.36
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	524.93	NA	524.02	NA	407.03	511.68

IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

XI. Weather Conditions For 19.09.2011 :

Normal weather

XII. Synchronisation of new generating units :

XIII. Synchronisation of new 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 : 19.09.2011

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER