

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 19.10.2011
Date of Reporting : 20.10.2011

I. Regional Availability/Demand:

Evening Peak (19:00 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
28910	3659	32569	50.00	24945	1611	26556	49.76	648.7	98.36

* 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	54.47	10.90		65.37	41.14	39.50	-1.64	104.86	5.20
Haryana	54.52	1.18		55.70	35.08	38.76	3.68	94.46	19.29
Rajasthan	82.04	0.05	1.81	83.91	30.41	30.61	0.20	114.51	26.22
Delhi	21.22			21.22	54.13	46.79	-7.34	68.01	1.49
UP	67.24	11.82	1.20	80.26	95.81	101.47	5.66	181.73	43.76
Uttarakhand		14.17		14.17	10.83	12.45	1.62	26.62	0.61
HP		11.08		11.08	11.15	11.08	-0.08	22.15	0.00
J & K		12.20	0.00	12.20	14.70	20.25	5.55	32.45	1.80
Chandigarh				0.00	4.26	3.91	-0.35	3.91	0.00
Total	279.48	61.41	3.01	343.90	297.51	304.81	7.30	648.71	98.36

* Shortage furnished by the respective constituent.

II. B. State's Demand Met in MWs:

State	Evening Peak (19:00 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	4811	150	-212	-100	4167	0	-149	-20	-1.16
Haryana	3955	1159	6	116	3872	186	248	82	1.83
Rajasthan	4942	0	-9	-75	4331	0	-363	-50	-1.46
Delhi	3458	150	-37	75	2097	0	-540	166	1.62
UP	7523	2120	205	343	7494	1425	8	343	8.22
Uttarakhand	1230	80	95	50	1044	0	119	50	1.20
HP	1188	0	96	-478	731	0	101	129	0.40
J&K	1584	0	352	-148	1092	0	227	-148	-3.56
Chandigarh	219	0	-24	18	117	0	-18	18	0.43
Total	28910	3659	472	-200	24945	1611	-367	570	7.51

* 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	1855	2017	2017	45.10	1879	44.52	0.58
	Rihand I STPS	1000	950	1033	1030	22.98	958	22.80	0.18
	Rihand II STPS	1000	965	1026	1024	23.33	972	23.16	0.17
	Dadri I STPS	840	719	837	712	17.29	721	17.27	0.03
	Dadri II STPS	980	829	952	751	20.09	837	19.89	0.20
	Unchahar I TPS	440	360	406	381	8.70	363	8.63	0.07
	Unchahar II TPS	440	177	201	191	4.28	178	4.24	0.04
	Unchahar III TPS	210	177	202	190	4.28	178	4.24	0.04
	ISTPP (Jhajihar)	500	460	507	511	11.07	461	10.99	0.08
	Dadri GPS	830	788	791	745	18.12	755	18.39	-0.27
	Anta GPS	419	385	381	364	8.99	375	8.85	0.14
	Auraiya GPS	663	610	465	599	12.42	517	12.33	0.09
	Sub Total (A)	9322	8275	8818	8515	196.66	8194	195.31	1.35
	B. NPC	NAPS	440	195	229	233	4.70	196	4.68
RAPS- B		440	402	450	451	9.76	407	9.65	0.11
RAPS- C		440	210	233	236	5.07	211	5.04	0.03
Sub Total (B)		1320	807	912	920	19.53	814	19.37	0.16
C. NHPC	Chamera I HPS	540	534	540	0	2.94	122	2.91	0.03
	Chamera II HPS	300	198	188	30	2.59	108	2.77	-0.18
	Bairasuil HPS	180	179	179	0	0.98	41	0.93	0.05
	Salal-HPS	690	255	222	260	5.83	243	5.92	-0.09
	Tanakpur-HPS	94	67	79	74	1.74	72	1.80	-0.06
	Uri-HPS	480	142	240	120	3.78	158	3.48	0.30
	Dhauliganga-HPS	280	277	278	0	2.23	93	2.17	0.06
	Dulhasti-HPS	390	387	386	38	7.60	317	7.56	0.04
	Sewa-II HPS	120	119	120	0	0.56	24	0.55	0.02
	Sub Total (C)	3074	2157	2232	522	28.25	1177	28.09	0.16
D.NJPC	Nathpa Jhakri	1500	1600	1337	0	14.76	615	15.51	-0.74
	Sub Total (D)	1500	1600	1337	0	14.76	615	15.51	-0.74
E. THDC	Tehri HPS	1000	1050	1045	0	6.08	253	6.00	0.08
	Koteshwar HPS	100	87	137	61	2.13	89	0.75	1.38
Sub Total (E)	1100	1137	1182	61	8.20	342	6.75	1.45	
F. BBMB	Bhakra HPS	1480	530	764	386	13.16	548	12.73	0.43
	Dehar HPS	990	302	450	280	7.28	303	7.24	0.04
	Pong HPS	396	203	306	186	5.05	210	4.88	0.17
	Sub Total (F)	2866	1035	1520	852	25.49	1062	24.85	0.64
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	49	0	0.71	30	0.69	0.02
	KWHEP HPS(IPP)	1000	0	602	251	8.57	357	8.26	0.30
	Malana Stg-II HPS	100	0	0	0	0.00	0	0.00	0.00
	Shree Cement TPS	150	0	80	0	0.70	29	1.21	-0.52
Sub Total (G)	1442	0	731	251	9.98	416	10.17	-0.19	
H. Total Regional Entities (A-G)	20625	15011	16732	11121	302.87	12619	300.04	2.83	

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	1240.00	1250.00	26.93	1122
	Guru Nanak Dev TPS(Bhatinda)	440	297.00	297.00	6.24	260
	Guru Hargobind Singh TPS(L.mbt)	920	952.00	962.00	21.29	887
	Thermal (Total)	2620	2489.00	2509.00	54.47	2269
	Total Hydro	1148	294.00	241.00	10.90	454
	Total Punjab	3768	2783	2750	65.37	2724
Haryana	Panipat TPS	1360	1129.00	1152.00	27.61	1151
	DCRTPP (Yamuna nagar)	600	275.00	280.00	6.53	272
	Faridabad GPS (NTPC)	432	398.00	373.00	9.38	391
	RGTPP (khedar) (IPP)	1200	415.00	439.00	10.99	458
	Magnum Diesel (IPP)	25	0.00	0.00	0.00	0
	Thermal (Total)	3617	2217.00	2244.00	54.52	2271
	Total Hydro	62	46.00	48.00	1.18	49
	Total Haryana	3679	2263	2292	55.70	2321
Rajasthan	kota TPS	1240	1161.00	971.00	24.96	1040
	suratgarh TPS	1500	1162.00	1154.00	27.05	1127
	Chabra TPS	500	340.00	419.00	8.83	368
	Dholpur GPS	330	273.00	290.00	6.06	252
	Ramgarh GPS	113	53.00	53.00	1.61	67
	RAPS A (NPC)	300	143.00	168.00	4.34	181
	Barsingsar (NLC)	250	53.00	54.00	1.62	67
	Giral LTPS (IPP)	250	162.00	150.00	1.88	78
	Rajwest LTPS (IPP)	135	160.00	243.00	5.70	238
	VSLP LTPS (IPP)	135	0.00	0.00	0.00	0
	Thermal (Total)	4753	3507.00	3502.00	82.04	3418
	Total Hydro	550	0.00	13.00	0.05	2
	Wind power	1294	0.00	80.00	1.31	55
	Biomass	71	25.00	25.00	0.51	21
	Renewable/Others (Total)	1365	25	105	1.81	76
	Total Rajasthan	6668	3532	3620	83.91	3496
	UP	Anpara TPS	1630	1315	1299	28.50
Obra TPS		1442	557	574	12.50	521
Paricha TPS		640	400	409	8.90	371
Panki TPS		210	0	0	0.00	0
Harduaganj TPS		375	40	42	0.80	33
Tanda TPS (NTPC)		440	273	316	7.54	314
Roza TPS (IPP)		600	284	284	6.78	283
Anpara-C (IPP)		600	0	251	1.94	81
Thermal (Total)		5937	2869	3191	67.24	2802
Vishnuparyag HPS (IPP)		400	258	228	5.45	227
Other Hydro		527	287	65	6.38	266
Cogeneration		951	50	50	1.20	50
Total UP		7815	3464	3534	80.26	3117
Uttarakhand		Total Hydro	1303	645	535	14.17
	Total Uttarakhand	1303	645	535	14.17	590
Delhi	Rajghat TPS	135	85	104	2.16	90
	Delhi Gas Turbine	282	183	191	4.55	190
	Pragati Gas Turbine	330	295	299	7.40	309
	Rithala GPS	108	26	29	0.60	25
	Bawana GPS	440	0	1	0.11	5
	Badarpur TPS (NTPC)	705	220	365	6.39	266
	Thermal (Total)	2000	809	988	21.22	884
	Total Delhi	2000	809	988	21.22	884
HP	Baspa HPS (IPP)	330	61	102	2.75	114
	Malana HPS (IPP)	101	46	0	0.65	27
	Other Hydro	571	318	261	7.68	320
	Total HP	1002	425	363	11	462
J & K	Baglihar HPS (IPP)	450	354	353	8.50	354
	Other Hydro	323	130	161	3.70	154
	Gas/Diesel/Others	183	0	0	0.00	0
	Total J & K	956	484	514	12.20	508
Total State Control Area Generation		27191	14405	14596	343.90	14102
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			234	1313	22.64	943
Total Regional Availability(Gross)		47816	31371	27030	669.40	27665

IV. Total Hydro Generation:

Regional Entities Hydro	9983	7002	1686	86.68	3612
State Control Area Hydro	5365	2181	1779	55.96	2332
Total Regional Hydro	15347	9183	3465	142.64	5943

V(A). Inter Regional Exchange [Import (+ve)/Export (-ve)] [Linkwise]

Element	Peak(19:00 Hrs)	Off Peak(03:00 Hrs)	Maximum Interchange (MW)		Energy (MU)		Net Energy MU
	MW	MW	Import	Export	Import	Export	
Vindhychal B/B	-200	-300	0	300	0.00	4.79	-4.79
Gwalior-Agra (D/C)	164	557	1012	186	7.67	0.00	7.67
Zerda-Kankroli	-256	-170	0	295	0.00	4.98	-4.98
Zerda-Bhinmal	-210	-121	99	294	0.00	3.53	-3.53
Malanpur-Auraiya	-179	-100	0	217	0.00	3.28	-3.28
Badod-Kota/Morak	0	0	0	0	0.00	0.00	0.00
Sub Total WR	-681	-134			7.67	16.58	-8.92
Pusauli Bypass	-4	76	172	113	1.91	0.25	1.66
MZP- GKP (D/C)	448	682	747	0	14.01	0.00	14.01
Patna-Balia(D/C)	159	268	336	0	6.03	0.00	6.03
B'Sharif-Balia (D/C)	211	353	435	0	8.03	0.00	8.03
Barh - balia(D/C)	0	0	0	0	0.00	0.00	0.00
Pusauli-Sahupuri	133	107	151	0	2.71	0.00	2.71
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-32	-39	0	40	0.00	0.88	-0.88
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sub Total ER	915	1447			32.69	1.14	31.56
Total IR Exch	234	1313			40.36	17.72	22.64

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
15.00	1.85	16.86	1.26	5.81	-8.03	-1.05	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
10.08	-0.95	9.13	31.56	-8.92	22.64	21.47	-7.97	13.51

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	0.30	1.30	17.90	61.80	82.10	38.20	1.70	0.00

<----- 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				
50.12	21.03	48.82	18.11	49.65	1.53	0.17	50.01	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	414	13:00	407	23:33	0.0	0.0	0.0	0.0
Gorakhpur	400	427	17:36	401	15:02	0.0	0.0	12.9	0.0
Bareilly	400	423	17:34	397	09:28	0.0	0.0	1.5	0.0
Kanpur	400	418	17:33	400	05:41	0.0	0.0	0.0	0.0
Dadri	400	414	03:19	402	15:01	0.0	0.0	0.0	0.0
Ballabgarh	400	418	17:34	401	15:02	0.0	0.0	0.0	0.0
Bawana	400	419	03:21	403	15:02	0.0	0.0	0.0	0.0
Bassi	400	424	17:33	401	18:34	0.0	0.0	1.7	0.0
Hissar	400	413	03:21	398	06:37	0.0	0.0	0.0	0.0
Moga	400	422	03:21	403	06:38	0.0	0.0	3.1	0.0
Abdullapur	400	420	03:22	290	08:01	0.0	0.0	0.0	0.0
Nalagarh	400	432	03:21	410	18:43	0.0	0.0	40.1	2.9
Kishenpur	400	423	02:11	399	18:43	0.0	0.0	8.3	0.0
Wagoora	400	412	02:43	382	18:43	0.0	31.3	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	510.34	1560.04	512.02	1650.87	336.12	407.42
Pong	426.72	384.05	422.29	990.81	423.70	1066.19	89.00	271.59
Tehri	829.79	740.04	818.85	982.26	NA	NA	126.09	131.00
Koteshwar	612.50	598.50	608.00	3.76	NA	NA	131.00	90.00
Chamera-I	760.00	748.75	751.84	NA	751.84	NA	103.24	83.89
Rihand	268.22	252.98	265.51	650.20	258.10	206.60	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	522.18	NA	522.15	NA	137.00	154.02

IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

XI. Weather Conditions For 19.10.2011 :

Normal weather

XII. Synchronisation of new generating units :

XIII. Synchronisation of new 220 / 400 / 765 KV lines and energising of bus / /substation :

A: 220kV Meerut - Nehtaur Line (S/C) first time synchronized with grid at 1625hrs of dt. 19.10.2011.

XIV. Tripping of lines in pooling stations :

XV. Complete generation loss in a generating station :

Report for : 19.10.2011

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER