

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 22.10.2011
Date of Reporting : 23.10.2011

I. Regional Availability/Demand:

Demand Met	Evening Peak (19:00 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
29078	2756	31834	50.00	25923	1915	27838	49.84	660.8	61.92

* 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	46.15	11.02		57.17	40.55	45.27	4.72	102.44	6.56
Haryana	63.40	1.22		64.62	36.13	39.85	3.72	104.47	4.22
Rajasthan	85.72	0.00	3.99	89.70	33.50	35.03	1.53	124.73	14.31
Delhi	22.72			22.72	55.32	45.34	-9.99	68.05	0.01
UP	72.16	10.05	1.20	83.41	105.89	95.01	-10.88	178.42	33.69
Uttarakhand		13.15		13.15	12.15	13.97	1.82	27.12	1.33
HP		8.54		8.54	12.68	12.25	-0.43	20.79	0.00
J & K		9.78	0.00	9.78	16.37	21.12	4.75	30.90	1.80
Chandigarh				0.00	4.40	3.87	-0.53	3.87	0.00
Total	290.15	53.76	5.19	349.09	316.99	311.71	-5.28	660.79	61.92

* 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	4249	150	-28	-185	4194	0	206	-105	-3.20
Haryana	4350	866	14	105	3927	0	-194	87	1.95
Rajasthan	5808	0	353	-75	4818	645	22	-50	-1.32
Delhi	3358	0	-186	75	1996	0	-536	166	1.62
UP	7169	1580	-667	343	7958	1270	138	243	7.62
Uttarakhand	1290	160	120	50	1007	0	28	50	1.20
HP	1136	0	110	-493	731	0	-12	114	0.06
J&K	1507	0	187	-129	1179	0	328	-129	-3.09
Chandigarh	211	0	-38	18	113	0	-24	18	0.43
Total	29078	2756	-135	-291	25923	1915	-44	395	5.27

* 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	1973	2008	45.05	1877	44.52	0.53
	Rihand I STPS	1000	955	1047	1042	21.31	888	22.92	-1.61
	Rihand II STPS	1000	970	1047	1031	23.45	977	23.28	0.17
	Dadri I STPS	840	678	833	605	16.56	690	16.26	0.30
	Dadri II STPS	980	808	981	705	19.51	813	19.40	0.11
	Unchahar I TPS	440	380	416	422	9.20	383	9.12	0.08
	Unchahar II TPS	440	190	212	212	4.61	192	4.57	0.04
	Unchahar III TPS	210	190	212	216	4.61	192	4.57	0.04
	ISTPP (Jhajihar)	500	465	505	480	10.81	450	11.11	-0.30
	Dadri GPS	830	791	665	744	17.10	713	17.46	-0.36
	Anta GPS	419	389	302	339	8.03	335	7.97	0.06
	Auraiya GPS	663	615	513	590	13.08	545	13.06	0.01
	Sub Total (A)	9322	8287	8706	8394	193.33	8055	194.24	-0.91
	B. NPC	NAPS	440	195	233	231	4.66	194	4.68
RAPS- B		440	408	452	459	9.83	410	9.79	0.04
RAPS- C		440	420	474	476	10.24	427	10.08	0.16
Sub Total (B)		1320	1023	1159	1166	24.73	1031	24.55	0.18
C. NHPC		Chamera I HPS	540	534	270	0	2.53	105	2.94
	Chamera II HPS	300	297	234	0	2.43	101	2.80	-0.37
	Bairasuil HPS	180	179	120	0	1.03	43	1.02	0.01
	Salal-HPS	690	238	314	143	4.88	203	5.45	-0.57
	Tanakpur-HPS	94	66	66	75	1.71	71	1.76	-0.05
	Uri-HPS	480	139	225	140	3.56	148	3.64	-0.09
	Dhauliganga-HPS	280	277	207	0	2.21	92	2.24	-0.03
	Dulhasti-HPS	390	388	413	0	6.43	268	6.80	-0.37
	Sewa-II HPS	120	119	71	0	0.48	20	0.56	-0.08
	Sub Total (C)	3074	2237	1920	358	25.25	1052	27.21	-1.96
D.NJPC	Nathpa Jhakri	1500	1600	1542	0	15.45	644	15.46	-0.01
	Sub Total (D)	1500	1600	1542	0	15.45	644	15.46	-0.01
E. THDC	Tehri HPS	1000	1050	691	0	6.51	271	6.50	0.01
	Koteshwar HPS	100	87	151	74	2.13	89	0.50	1.63
	Sub Total (E)	1100	1137	842	74	8.64	360	7.00	1.64
F. BBMB	Bhakra HPS	1480	524	764	391	13.23	551	12.57	0.66
	Dehar HPS	990	270	330	280	6.30	263	6.47	-0.17
	Pong HPS	396	178	306	120	4.28	178	4.26	0.02
	Sub Total (F)	2866	971	1400	791	23.81	992	23.30	0.51
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	125	0	0.71	30	0.69	0.02
	KWHEP HPS(IPP)	1000	0	700	270	8.35	348	8.34	0.01
	Malana Stg-II HPS	100	0	0	0	0.00	0	0.00	0.00
	Shree Cement TPS	150	0	134	103	2.80	117	2.43	0.37
	Sub Total (G)	1442	0	959	373	11.86	494	11.46	0.40
H. Total Regional Entities (A-G)	20625	15254	16528	11156	303.08	12628	303.23	-0.15	

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	1045.00	1045.00	23.50	979
	Guru Nanak Dev TPS(Bhatinda)	440	190.00	297.00	4.96	207
	Guru Hargobind Singh TPS(L.mbt)	920	737.00	965.00	17.70	737
	Thermal (Total)	2620	1972.00	2307.00	46.15	1923
	Total Hydro	1148	294.00	214.00	11.02	459
	Total Punjab	3768	2266	2521	57.17	2382
Haryana	Panipat TPS	1360	1068.00	1076.00	25.81	1075
	DCRTPP (Yamuna nagar)	600	274.00	275.00	6.65	277
	Faridabad GPS (NTPC)	432	398.00	403.00	9.62	401
	RGTPP (khedar) (IPP)	1200	826.00	989.00	21.33	889
	Magnum Diesel (IPP)	25	0.00	0.00	0.00	0
	Thermal (Total)	3617	2566.00	2743.00	63.40	2642
	Total Hydro	62	47.00	47.00	1.22	51
	Total Haryana	3679	2613	2790	64.62	2692
	Rajasthan	kota TPS	1240	1265.00	1158.00	27.55
suratgarh TPS		1500	1146.00	1173.00	27.07	1128
Chabra TPS		500	423.00	330.00	8.84	368
Dholpur GPS		330	283.00	275.00	6.96	290
Ramgarh GPS		113	65.00	65.00	1.63	68
RAPS A (NPC)		300	176.00	174.00	4.31	180
Barsingsar (NLC)		250	152.00	83.00	3.07	128
Giral LTPS (IPP)		250	107.00	105.00	2.35	98
Rajwest LTPS (IPP)		135	81.00	240.00	3.94	164
VSLP LTPS (IPP)		135	0.00	0.00	0.00	0
Thermal (Total)		4753	3698.00	3603.00	85.72	3572
Total Hydro		550	0.00	0.00	0.00	0
Wind power		1294	255.00	94.00	3.38	141
Biomass		71	27.00	27.00	0.61	25
Renewable/Others (Total)		1365	282	121	3.99	166
Total Rajasthan		6668	3980	3724	89.70	3738
UP		Anpara TPS	1630	1490	1391	33.30
	Obra TPS	1442	695	621	14.60	608
	Paricha TPS	640	304	362	7.80	325
	Panki TPS	210	0	0	0.00	0
	Harduaganj TPS	375	84	36	1.30	54
	Tanda TPS (NTPC)	440	330	334	8.41	350
	Roza TPS (IPP)	600	284	284	6.75	281
	Anpara-C (IPP)	600	0	0	0.00	0
	Thermal (Total)	5937	3187	3028	72.16	3007
	Vishnuparyag HPS (IPP)	400	208	204	4.82	201
	Other Hydro	527	235	0	5.23	218
	Cogeneration	951	50	50	1.20	50
	Total UP	7815	3680	3282	83.41	3274
	Uttarakhand	Total Hydro	1303	593	544	13.15
Total Uttarakhand		1303	593	544	13.15	548
Delhi	Rajghat TPS	135	60	50	1.36	56
	Delhi Gas Turbine	282	186	174	4.45	185
	Pragati Gas Turbine	330	298	302	7.38	308
	Rithala GPS	108	27	29	0.64	27
	Bawana GPS	440	0	39	3.92	163
	Badarpur TPS (NTPC)	705	235	240	4.98	207
	Thermal (Total)	2000	806	795	22.72	947
	Total Delhi	2000	806	795	22.72	947
HP	Baspa HPS (IPP)	330	103	31	2.38	99
	Malana HPS (IPP)	101	89	0	0.57	24
	Other Hydro	571	268	240	5.58	233
	Total HP	1002	460	271	9	356
J & K	Baglihar HPS (IPP)	450	254	252	6.08	253
	Other Hydro	323	130	161	3.70	154
	Gas/Diesel/Others	183	0	0	0.00	0
	Total J & K	956	384	413	9.78	408
Total State Control Area Generation		27191	14782	14340	349.09	14344
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			573	1126	36.11	1504
Total Regional Availability(Gross)		47816	31883	26622	688.28	28477

IV. Total Hydro Generation:

Regional Entities Hydro	9983	6663	1596	85.02	3543
State Control Area Hydro	5365	2013	1489	48.93	2039
Total Regional Hydro	15347	8676	3085	133.96	5581

VI(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	-500	-500	0	500	0.00	9.92	-9.92
Gwalior-Agra (D/C)	350	475	997	0	13.19	0.00	13.19
Zerda-Kankroli	-203	-221	0	319	0.00	4.89	-4.89
Zerda-Bhinmal	-123	-156	0	243	0.00	3.00	-3.00
Malanpur-Auraiya	-118	-120	0	165	0.00	2.75	-2.75
Badod-Kota/Morak	-29	-56	0	180	0.00	1.40	-1.40
Sub Total WR	-623	-578			13.19	21.97	-8.78
Pusauli Bypass	4	-232	332	320	2.75	2.25	0.50
MZP- GKP (D/C)	432	950	1108	0	20.62	0.00	20.62
Patna-Balia(D/C)	168	250	394	0	6.02	0.00	6.02
B'Sharif-Balia (D/C)	226	321	429	0	7.64	0.00	7.64
Barh - balia(D/C)	269	358	398	0	7.32	0.00	7.32
Pusauli-Sahupuri	129	96	152	0	3.66	0.00	3.66
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	1196	1704			48.02	3.13	44.88
Total IR Exch	573	1126			61.21	25.10	36.11

VI(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
20.56	1.71	22.27	2.01	5.15	-1.17	3.39	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
23.11	2.72	25.83	44.88	-8.78	36.11	21.77	-11.50	10.27

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	3.50	37.40	96.30	72.40	8.00	0.20

<----- 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				
50.30	17.07	49.24	17.42	49.79	0.67	0.16	50.18	49.63

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	411	03:26	405	14:32	0.0	0.0	0.0	0.0
Gorakhpur	400	434	08:03	14	15:29	0.0	0.0	39.5	0.7
Bareilly	400	419	08:04	397	09:32	0.0	0.0	0.0	0.0
Kanpur	400	414	08:00	399	19:42	0.0	0.0	0.0	0.0
Dadri	400	413	02:09	400	09:31	0.0	0.0	0.0	0.0
Ballabgarh	400	415	03:16	400	09:30	0.0	0.0	0.0	0.0
Bawana	400	416	02:13	401	12:26	0.0	0.0	0.0	0.0
Bassi	400	427	02:13	401	18:40	0.0	0.0	9.6	0.0
Hissar	400	410	02:13	395	12:26	0.0	0.0	0.0	0.0
Moga	400	418	02:12	400	12:28	0.0	0.0	0.0	0.0
Abdullapur	400	415	16:06	398	09:31	0.0	0.0	0.0	0.0
Nalagarh	400	427	02:16	407	19:12	0.0	0.0	16.3	0.0
Kishenpur	400	422	02:16	399	19:00	0.0	0.0	1.1	0.0
Wagoora	400	416	08:25	378	18:59	1.3	17.8	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	510.31	1560.04	512.04	1650.87	312.25	339.80
Pong	426.72	384.05	422.01	990.81	423.44	1051.02	72.83	241.32
Tehri	829.79	740.04	818.75	982.26	NA	NA	107.24	145.00
Koteshwar	612.50	598.50	605.40	2.46	NA	NA	145.00	142.00
Chamera-I	760.00	748.75	752.28	NA	751.84	NA	90.77	68.78
Rihand	268.22	252.98	NA	NA	258.04	208.70	NA	NA
RPS	352.80	343.81	350.56	NA	NA	NA	NA	NA
Jawahar Sagar	298.70	295.78	298.55	NA	NA	NA	NA	NA
RSD	527.91	487.91	521.82	NA	521.99	NA	126.58	230.24

IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

XI. Weather Conditions For 22.10.2011 :

Normal weather

XII. Synchronisation of new generating units :

1. In Harduaganj (U.P.) unit # 8 (250 MW) 1st time test run at 14.40 hrs of 22.10.2011.

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 : 22.10.2011

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER