

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 14.10.2011
Date of Reporting : 15.10.2011

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
29162	4692	33854	49.70	27304	4602	31906	0.00	670.0	103.84

* 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	54.25	10.18		64.43	54.66	50.53	-4.13	114.96	7.30
Haryana	60.28	1.20		61.48	37.08	36.64	-0.44	98.12	18.21
Rajasthan	82.64	0.04	4.12	86.80	29.53	29.80	0.28	116.60	24.92
Delhi	25.44			25.44	53.85	50.24	-3.61	75.68	1.00
UP	62.24	12.80	1.20	76.23	96.07	107.36	11.29	183.59	47.85
Uttarakhand		16.80		16.80	9.16	8.71	-0.45	25.51	3.36
HP		11.58		11.58	10.07	10.11	0.04	21.69	1.20
J & K		12.18	0.00	12.18	14.16	17.57	3.41	29.75	0.00
Chandigarh				0.00	4.48	4.08	-0.41	4.08	0.00
Total	284.84	64.79	5.32	354.95	309.05	315.03	5.99	669.98	103.84

* 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	5165	300	-224	493	4463	200	-177	570	13.31
Haryana	4138	1162	-23	133	3880	410	-150	124	2.59
Rajasthan	4998	456	52	-179	4934	2057	-13	-173	-4.19
Delhi	3708	352	161	-180	2568	0	-347	40	-2.26
UP	7488	2145	-5	773	8364	1935	1530	773	18.54
Uttarakhand	1098	230	-70	1	1092	0	101	1	0.01
HP	1009	47	143	-439	802	0	-48	9	-1.56
J&K	1335	0	113	-208	1064	0	131	-208	-4.99
Chandigarh	223	0	6	0	137	0	-20	0	0.00
Total	29162	4692	153	393	27304	4602	1007	1135	21.45

* 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	1604	1742	1723	38.84	1619	38.50	0.35
	Rihand I STPS	1000	940	1027	1023	22.71	946	22.56	0.15
	Rihand II STPS	1000	475	516	514	11.49	479	11.40	0.09
	Dadri I STPS	840	719	837	713	17.36	723	17.27	0.09
	Dadri II STPS	980	829	1006	766	20.06	836	19.89	0.16
	Unchahar I TPS	440	380	408	409	9.21	384	9.12	0.08
	Unchahar II TPS	440	192	210	211	4.64	193	4.61	0.03
	Unchahar III TPS	210	192	214	211	4.65	194	4.61	0.04
	ISTPP (Jhajihar)	500	460	504	496	11.08	462	11.04	0.04
	Dadri GPS	830	782	738	719	17.74	739	17.71	0.02
	Anta GPS	419	381	375	390	8.84	368	8.41	0.43
	Auraiya GPS	663	606	579	638	13.85	577	13.58	0.27
	Sub Total (A)	9322	7560	8156	7813	180.45	7519	178.69	1.76
	B. NPC	NAPS	440	187	226	227	4.59	191	4.49
RAPS- B		440	401	444	448	9.66	402	9.62	0.03
RAPS- C		440	420	472	471	10.18	424	10.08	0.10
Sub Total (B)		1320	1008	1142	1146	24.42	1018	24.19	0.23
C. NHPC	Chamera I HPS	540	534	540	0	5.90	246	6.04	-0.14
	Chamera II HPS	300	198	173	0	2.94	122	3.15	-0.21
	Bairasuil HPS	180	127	120	0	1.00	42	1.00	0.00
	Salal-HPS	690	282	303	230	6.52	272	6.77	-0.25
	Tanakpur-HPS	94	83	86	86	2.09	87	2.09	-0.01
	Uri-HPS	480	173	240	149	4.69	195	4.81	-0.12
	Dhauliganga-HPS	280	277	210	0	3.28	137	3.35	-0.07
	Dulhasti-HPS	390	387	314	133	8.29	345	8.78	-0.49
	Sewa-II HPS	120	119	119	0	0.69	29	0.75	-0.06
	Sub Total (C)	3074	2179	2105	598	35.39	1475	36.73	-1.34
D. NJPC	Nathpa Jhakri	1500	1600	1551	263	17.26	719	17.14	0.12
	Sub Total (D)	1500	1600	1551	263	17.26	719	17.14	0.12
E. THDC	Tehri HPS	1000	1050	1050	0	8.91	371	9.00	-0.10
	Koteshwar HPS	100	72	90	71	2.42	101	1.59	0.83
Sub Total (E)	1100	1122	1140	71	11.32	472	10.59	0.73	
F. BBMB	Bhakra HPS	1480	670	770	587	16.66	694	16.08	0.58
	Dehar HPS	990	325	495	165	8.14	339	7.81	0.33
	Pong HPS	396	154	186	60	3.98	166	3.69	0.29
	Sub Total (F)	2866	1149	1451	812	28.78	1199	27.57	1.21
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	30	30	0.71	29	0.68	0.03
	KWHEP HPS(IPP)	1000	0	700	240	9.42	393	8.24	1.18
	Malana Stg-II HPS	100	0	0	0	0.00	0	0.00	0.00
	Shree Cement TPS	150	0	0	0	0.00	0	0.00	0.00
Sub Total (G)	1442	0	730	270	10.13	422	8.92	1.21	
H. Total Regional Entities (A-G)	20625	14618	16275	10973	307.75	12823	303.84	3.91	

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	1260.00	1260.00	28.25	1177
	Guru Nanak Dev TPS(Bhatinda)	440	217.00	234.00	4.68	195
	Guru Hargobind Singh TPS(L.mbt)	920	968.00	955.00	21.32	888
	Thermal (Total)	2620	2445.00	2449.00	54.25	2260
	Total Hydro	1148	477.00	201.00	10.18	424
Total Punjab	3768	2922	2650	64.43	2685	
Haryana	Panipat TPS	1360	1071.00	1093.00	25.63	1068
	DCRTPP (Yamuna nagar)	600	269.00	279.00	6.52	272
	Faridabad GPS (NTPC)	432	368.00	406.00	8.80	367
	RGTPP (khedar) (IPP)	1200	725.00	833.00	19.32	805
	Magnum Diesel (IPP)	25	0.00	0.00	0.00	0
	Thermal (Total)	3617	2433.00	2611.00	60.28	2512
	Total Hydro	62	46.00	46.00	1.20	50
	Total Haryana	3679	2479	2657	61.48	2562
Rajasthan	kota TPS	1240	1159.00	1155.00	27.10	1129
	suratgarh TPS	1500	1158.00	1151.00	26.28	1095
	Chabra TPS	500	303.00	430.00	9.97	415
	Dholpur GPS	330	263.00	275.00	6.53	272
	Ramgarh GPS	113	53.00	53.00	1.39	58
	RAPS A (NPC)	300	152.00	172.00	4.31	180
	Barsingsar (NLC)	250	47.00	42.00	0.69	29
	Giral LTPS (IPP)	250	73.00	40.00	1.74	73
	Rajwest LTPS (IPP)	135	259.00	141.00	4.64	193
	VSLP LTPS (IPP)	135	0.00	0.00	0.00	0
	Thermal (Total)	4753	3467.00	3459.00	82.64	3443
	Total Hydro	550	20.00	0.00	0.04	2
	Wind power	1294	0.00	414.00	3.52	147
	Biomass	71	25.00	25.00	0.60	25
	Renewable/Others (Total)	1365	25	439	4.12	172
	Total Rajasthan	6668	3512	3898	86.80	3617
	UP	Anpara TPS	1630	1237	1030	26.20
Obra TPS		1442	589	585	14.00	583
Paricha TPS		640	293	305	7.20	300
Panki TPS		210	0	0	0.00	0
Harduaganj TPS		375	67	40	0.90	38
Tanda TPS (NTPC)		440	393	345	7.22	301
Roza TPS (IPP)		600	284	284	6.72	280
Anpara-C (IPP)		600	0	0	0.00	0
Thermal (Total)		5937	2863	2589	62.24	2593
Vishnuparyag HPS (IPP)		400	278	327	7.37	307
Other Hydro		527	276	54	5.43	226
Cogeneration		951	50	50	1.20	50
Total UP		7815	3467	3020	76.23	2869
Uttarakhand		Total Hydro	1303	747	706	16.80
	Total Uttarakhand	1303	747	706	16.80	700
Delhi	Rajghat TPS	135	103	106	2.41	100
	Delhi Gas Turbine	282	182	141	4.09	171
	Pragati Gas Turbine	330	295	302	7.17	299
	Rithala GPS	108	26	29	0.60	25
	Bawana GPS	440	0	0	0.00	0
	Badarpur TPS (NTPC)	705	520	505	11.17	465
	Thermal (Total)	2000	1126	1083	25.44	1060
	Total Delhi	2000	1126	1083	25.44	1060
HP	Baspa HPS (IPP)	330	59	207	2.99	125
	Malana HPS (IPP)	101	36	33	0.70	29
	Other Hydro	571	356	354	7.90	329
	Total HP	1002	451	594	12	483
J & K	Baglihar HPS (IPP)	450	354	352	8.48	354
	Other Hydro	323	130	161	3.70	154
	Gas/Diesel/Others	183	0	0	0.00	0
	Total J & K	956	484	513	12.18	508
Total State Control Area Generation		27191	15188	15121	354.95	14483
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			-370	1539	25.56	1065
Total Regional Availability(Gross)		47816	31093	27633	688.25	28370

IV. Total Hydro Generation:

Regional Entities Hydro	9983	6977	2014	102.87	4286
State Control Area Hydro	5365	2501	2114	57.42	2393
Total Regional Hydro	15347	9478	4128	160.29	6679

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	-400	0	0	400	0.00	3.39	-3.39
Gwalior-Agra (D/C)	136	430	1484	0	14.89	0.00	14.89
Zerda-Kankroli	-259	-81	0	330	0.00	4.38	-4.38
Zerda-Bhinmal	-187	-39	71	232	0.00	2.47	-2.47
Malanpur-Auraiya	-50	-54	208	0	2.06	0.00	2.06
Badod-Kota/Morak	-150	-163	0	255	0.00	3.82	-3.82
Sub Total WR	-910	93			16.95	14.06	2.90
Pusauli Bypass	-201	58	72	202	0.52	1.24	-0.72
MZP- GKP (D/C)	309	684	743	0	11.61	0.00	11.61
Patna-Balia(D/C)	153	240	285	0	4.28	0.00	4.28
B'Sharif-Balia (D/C)	175	345	383	0	5.45	0.00	5.45
Barh - balia(D/C)	0	0	0	0	0.00	0.00	0.00
Pusauli-Sahupuri	136	158	170	0	2.93	0.00	2.93
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	540	1446			24.79	2.12	22.67
Total IR Exch	-370	1539			41.74	16.18	25.56

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
13.29	2.17	15.46	2.66	18.70	-11.91	-3.09	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
6.21	9.77	15.98	22.67	2.90	25.56	16.46	-6.87	9.59

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
0.70	0.70	2.60	26.60	70.00	73.10	29.60	3.10

----- 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				
50.29	10.03	48.80	18.11	49.61	1.93	0.20	49.99	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	418	18:00	413	09:29	0.0	0.0	0.0	0.0
Gorakhpur	400	429	22:46	415	11:59	0.0	0.0	40.6	0.0
Bareilly	400	424	17:33	404	11:59	0.0	0.0	6.9	0.0
Kanpur	400	418	22:22	404	09:31	0.0	0.0	0.0	0.0
Dadri	400	414	17:58	401	11:57	0.0	0.0	0.0	0.0
Ballabgarh	400	417	18:00	403	09:37	0.0	0.0	0.0	0.0
Bawana	400	417	18:01	402	11:59	0.0	0.0	0.0	0.0
Bassi	400	424	15:05	408	10:51	0.0	0.0	57.2	0.0
Hissar	400	412	16:05	397	11:59	0.0	0.0	0.0	0.0
Moga	400	416	23:54	403	10:51	0.0	0.0	0.0	0.0
Abdullapur	400	414	16:06	400	11:59	0.0	0.0	0.0	0.0
Nalagarh	400	423	23:29	406	19:08	0.0	0.0	9.8	0.0
Kishenpur	400	414	17:02	399	19:11	0.0	0.0	0.0	0.0
Wagoora	400	395	23:57	0	11:01	71.7	94.5	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	510.00	1560.04	512.11	1650.87	368.29	439.93
Pong	426.72	384.05	422.60	1005.78	423.95	1082.23	87.53	222.32
Tehri	829.79	740.04	819.00	982.26	NA	NA	132.16	198.00
Koteshwar	612.50	598.50	606.40	2.88	NA	NA	182.00	196.00
Chamera-I	760.00	748.75	752.46	NA	751.68	NA	107.15	159.92
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	522.36	NA	522.70	NA	111.99	175.48

IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

XI. Weather Conditions For 14.10.2011 :
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 : 14.10.2011

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER