

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 14.11.2011
Date of Reporting : 15.11.2011

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
28887	2387	31274	49.92	23133	1701.43	24833.9833	0.00	643.3	50.99

* 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	53.45	10.22		63.67	22.83	20.10	-2.72	83.77	2.78
Haryana	61.46	0.90		62.35	25.74	25.11	-0.63	87.46	4.06
Rajasthan	82.21	5.49	4.17	91.87	45.82	55.26	9.44	147.12	13.39
Delhi	28.90			28.90	42.14	31.80	-10.34	60.70	0.07
UP	94.30	7.23	1.20	102.74	84.78	77.82	-6.96	180.56	29.09
Uttarakhand		9.16		9.16	17.13	18.35	1.22	27.51	0.00
HP		6.81		6.81	15.13	14.27	-0.86	21.08	0.10
J & K		7.34	0.00	7.34	20.84	24.37	3.53	31.71	1.50
Chandigarh				0.00	3.60	3.39	-0.21	3.39	0.00
Total	320.31	47.16	5.37	372.84	278.02	270.47	-7.54	643.31	50.99

* 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	3979	150	-92	-564	2883	0	-288	-737	-12.71
Haryana	3983	691	-9	-94	2802	0	-363	-94	-2.37
Rajasthan	6746	239	680	95	5880	851	719	220	6.74
Delhi	3027	0	-261	-227	1525	0	-753	-465	-7.32
UP	7190	1300	-1066	391	7167	850	-3	391	9.39
Uttarakhand	1429	0	-5	316	918	0	-60	316	7.58
HP	902	7	-364	-356	684	0	60	-22	-3.57
J&K	1448	0	-20	73	1181	0	127	103	2.00
Chandigarh	182	0	-37	0	93	0	-5	-30	-0.24
Total	28887	2387	-1173	-365	23133	1701.43	-566	-318	-0.50

* 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	1726	1838	1836	41.86	1744	41.42	0.44
	Rihand I STPS	1000	770	1011	820	18.65	777	18.48	0.17
	Rihand II STPS	1000	975	1040	1040	23.55	981	23.40	0.15
	Dadri I STPS	840	755	795	634	17.47	728	17.18	0.29
	Dadri II STPS	980	922	963	982	22.23	926	22.13	0.10
	Unchahar I TPS	440	370	430	398	8.93	372	8.82	0.11
	Unchahar II TPS	440	372	425	405	8.98	374	8.79	0.19
	Unchahar III TPS	210	183	210	201	4.42	184	4.32	0.10
	ISTPP (Jhajihar)	500	430	515	499	10.20	425	10.22	-0.01
	Dadri GPS	830	618	489	507	12.81	534	12.57	0.23
	Anta GPS	419	407	324	316	8.62	359	8.14	0.48
	Auraiya GPS	663	618	424	336	10.06	419	9.88	0.18
	Sub Total (A)	9322	8145	8464	7974	187.78	7824	185.36	2.42
	B. NPC	NAPS	440	199	236	245	4.85	202	4.78
RAPS- B		440	407	450	452	9.14	381	9.77	-0.63
RAPS- C		440	420	477	476	10.20	425	10.08	0.12
Sub Total (B)		1320	1026	1163	1173	24.19	1008	24.63	-0.45
C. NHPC	Chamera I HPS	540	534	180	0	2.22	92	2.08	0.14
	Chamera II HPS	300	297	151	0	1.71	71	1.73	-0.02
	Bairasuil HPS	180	179	70	0	0.63	26	0.65	-0.02
	Salal-HPS	690	169	228	205	4.25	177	4.07	0.18
	Tanakpur-HPS	94	50	53	45	1.20	50	1.18	0.01
	Uri-HPS	480	167	218	120	4.12	172	4.43	-0.31
	Dhauliganga-HPS	280	277	207	0	1.65	69	1.68	-0.04
	Dulhasti-HPS	390	388	245	0	4.19	174	4.16	0.03
	Sewa-II HPS	120	119	73	0	0.43	18	0.47	-0.04
	Sub Total (C)	3074	2180	1425	370	20.37	849	20.45	-0.08
D.NJPC	Nathpa Jhakri	1500	1600	1587	0	12.17	507	11.62	0.54
	Sub Total (D)	1500	1600	1587	0	12.17	507	11.62	0.54
E. THDC	Tehri HPS	1000	693	1040	0	3.35	139	3.25	0.10
	Koteshwar HPS	100	55	87	72	1.19	50	1.15	0.04
Sub Total (E)	1100	748	1127	72	4.54	189	4.40	0.14	
F. BBMB	Bhakra HPS	1480	609	995	416	15.14	631	14.61	0.53
	Dehar HPS	990	186	495	140	4.51	188	4.46	0.05
	Pong HPS	396	279	300	240	6.89	287	6.70	0.19
	Sub Total (F)	2866	1073	1790	796	26.54	1106	25.76	0.78
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	0	0	0.49	21	0.56	-0.06
	KWHEP HPS(IPP)	1000	0	372	145	6.38	266	6.37	0.02
	Malana Stg-II HPS	100	0	0	0	0.00	0	0.00	0.00
	Shree Cement TPS	150	0	131	117	2.97	124	2.72	0.25
Sub Total (G)	1442	0	503	262	9.84	410	9.64	0.20	
H. Total Regional Entities (A-G)	20625	14772	16059	10647	285.42	11893	281.87	3.55	

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	1240.00	28.27	1178	
	Guru Nanak Dev TPS(Bhatinda)	440	210.00	215.00	4.58	191	
	Guru Hargobind Singh TPS(L.mbt)	920	920.00	932.00	20.61	859	
	Thermal (Total)	2620	2390.00	2387.00	53.45	2227	
	Total Hydro	1148	264.00	264.00	10.22	426	
	Total Punjab	3768	2654	2651	63.67	2653	
Haryana	Panipat TPS	1360	1037.00	1051.00	26.71	1113	
	DCRTPP (Yamuna nagar)	600	270.00	273.00	6.59	275	
	Faridabad GPS (NTPC)	432	390.00	324.00	9.47	395	
	RGTPP (khedar) (IPP)	1200	819.00	703.00	18.68	778	
	Magnum Diesel (IPP)	25	0.00	0.00	0.00	0	
	Thermal (Total)	3617	2516.00	2351.00	61.46	2561	
	Total Hydro	62	35.00	43.00	0.90	37	
		Total Haryana	3679	2551	2394	62.35	2598
Rajasthan	kota TPS	1240	1153.00	982.00	25.19	1050	
	suratgarh TPS	1500	1156.00	1152.00	26.22	1092	
	Chabra TPS	500	349.00	305.00	6.43	268	
	Dholpur GPS	330	287.00	277.00	7.00	292	
	Ramgarh GPS	113	65.00	65.00	1.66	69	
	RAPS A (NPC)	300	174.00	175.00	3.59	150	
	Barsingsar (NLC)	250	54.00	42.00	1.26	53	
	Giral LTPS (IPP)	250	114.00	122.00	2.27	94	
	Rajwest LTPS (IPP)	135	365.00	334.00	8.60	358	
	VSLP LTPS (IPP)	135	0.00	0.00	0.00	0	
	Thermal (Total)	4753	3717.00	3454.00	82.21	3425	
	Total Hydro	550	279.00	132.00	5.49	229	
	Wind power	1294	16.00	185.00	3.30	138	
	Biomass	71	41.00	41.00	0.86	36	
	Renewable/Others (Total)	1365	57	226	4.17	174	
		Total Rajasthan	6668	4053	3812	91.87	3828
	UP	Anpara TPS	1630	1332	1337	32.00	1333
Obra TPS		1442	591	377	12.03	501	
Paricha TPS		640	338	367	8.60	358	
Panki TPS		210	122	153	3.10	129	
Harduaganj TPS		375	31	29	7.00	292	
Tanda TPS (NTPC)		440	402	394	9.80	408	
Roza TPS (IPP)		600	567	567	13.57	565	
Anpara-C (IPP)		600	351	297	7.69	320	
Thermal (Total)		5937	3746	3555	94.30	3929	
Vishnuparyag HPS (IPP)		400	149	144	3.48	145	
Other Hydro		527	153	0	3.75	156	
Cogeneration		951	50	50	1.20	50	
		Total UP	7815	4098	3749	102.74	4135
Uttarakhand		Total Hydro	1303	527	309	9.16	382
		Total Uttarakhand	1303	527	309	9.16	382
Delhi	Rajghat TPS	135	100	99	2.34	98	
	Delhi Gas Turbine	282	199	154	4.34	181	
	Pragati Gas Turbine	330	305	286	7.31	305	
	Rithala GPS	108	21	29	0.56	23	
	Bawana GPS	440	160	47	4.04	168	
	Badarpur TPS (NTPC)	705	485	405	10.31	430	
	Thermal (Total)	2000	1270	1083	28.90	1204	
		Total Delhi	2000	1270	1083	28.90	1204
HP	Baspa HPS (IPP)	330	31	31	1.70	71	
	Malana HPS (IPP)	101	3	0	0.36	15	
	Other Hydro	571	288	150	4.75	198	
		Total HP	1002	322	181	7	284
J & K	Baglihar HPS (IPP)	450	234	234	5.61	234	
	Other Hydro	323	54	100	1.73	72	
	Gas/Diesel/Others	183	0	0	0.00	0	
		Total J & K	956	288	334	7.34	306
Total State Control Area Generation		27191	15763	14513	372.84	15390	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			-309	-726	-1.22	-51	
Total Regional Availability(Gross)		47816	31513	24434	657.04	27232	

IV. Total Hydro Generation:

Regional Entities Hydro	9983	6432	1500	73.46	3061
State Control Area Hydro	5365	1868	1263	43.67	1820
Total Regional Hydro	15347	8300	2763	117.13	4880

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	-300	-400	0	400	0.00	8.78	-8.78
Gwalior-Agra (D/C)	-101	-507	326	529	0.00	2.21	-2.21
Zerda-Kankroli	-260	-332	0	392	0.00	7.02	-7.02
Zerda-Bhinmal	-148	-244	0	328	0.00	4.71	-4.71
Malanpur-Auraiya	-221	-301	0	311	0.00	5.37	-5.37
Badod-Kota/Morak	0	50	50	0	0.22	0.00	0.22
Sub Total WR	-1030	-1734			0.22	28.09	-27.87
Pusauli Bypass	250	250	250	0	6.05	0.00	6.05
MZP- GKP (D/C)	240	320	491	0	7.84	0.00	7.84
Patna-Balia(D/C)	152	297	344	0	6.93	0.00	6.93
B'Sharif-Balia (D/C)	10	122	329	0	4.15	0.00	4.15
Barh - balia(D/C)	0	0	0	0	0.00	0.00	0.00
Pusauli-Sahupuri	105	61	143	0	2.08	0.00	2.08
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-36	-42	0	48	0.00	0.40	-0.40
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sub Total ER	721	1008			27.05	0.40	26.65
Total IR Exch	-309	-726			27.28	28.49	-1.22

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
19.98	1.07	21.05	2.92	-2.02	-3.19	-2.61	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
20.78	-9.88	10.89	26.65	-27.87	-1.22	5.87	-17.98	-12.11

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
0.00	0.40	1.80	20.10	60.20	79.90	39.80	1.10

<----- 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				
50.17	18.01	48.85	16.43	49.64	1.62	0.18	49.95	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	407	07:04	400	10:47	0.0	0.0	0.0	0.0
Gorakhpur	400	429	20:26	406	11:13	0.0	0.0	46.5	0.0
Bareilly	400	421	17:03	398	11:14	0.0	0.0	0.8	0.0
Kanpur	400	414	17:03	400	11:10	0.0	0.0	0.0	0.0
Dadri	400	414	21:46	402	11:08	0.0	0.0	0.0	0.0
Ballabgarh	400	415	07:15	402	11:10	0.0	0.0	0.0	0.0
Bawana	400	419	21:51	405	11:08	0.0	0.0	0.0	0.0
Bassi	400	420	20:51	397	12:23	0.0	0.0	0.0	0.0
Hissar	400	412	21:46	398	12:23	0.0	0.0	0.0	0.0
Moga	400	418	23:28	403	18:38	0.0	0.0	0.0	0.0
Abdullapur	400	421	21:46	407	11:01	0.0	0.0	3.5	0.0
Nalagarh	400	425	22:58	407	11:15	0.0	0.0	14.8	0.0
Kishenpur	400	415	04:22	394	10:33	0.0	0.0	0.0	0.0
Wagoora	400	401	03:03	367	19:10	45.7	76.1	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	509.22	1515.08	510.98	1590.18	250.01	382.28
Pong	426.72	384.05	419.57	875.55	422.04	990.81	51.23	332.26
Tehri	829.79	740.04	817.20	942.25	NA	NA	83.11	81.00
Koteshwar	612.50	598.50	601.80	1.15	NA	NA	91.00	132.00
Chamera-I	760.00	748.75	754.60	NA	NA	NA	70.22	56.12
Rihand	268.22	252.98	264.93	609.00	257.80	192.40	NA	NA
RPS	352.80	343.81	353.49	NA	NA	NA	NA	89.33
Jawahar Sagar	298.70	295.78	297.76	NA	NA	NA	NA	88.43
RSD	527.91	487.91	520.17	NA	520.54	NA	100.47	182.87

IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

XI. Weather Conditions For 14.11.2011 :

Normal weather

XII. Synchronisation of new generating units :

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 : 14.11.2011

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER