

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 09.11.2011
Date of Reporting : 10.11.2011

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
29477	2581	32058	50.02	25181	1064	26245	50.00	647.6	56.66

* 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	49.30	11.21		60.51	27.02	23.89	-3.13	84.40	1.80
Haryana	61.56	0.94		62.50	25.05	27.67	2.62	90.17	3.73
Rajasthan	87.15	5.45	1.43	94.02	44.71	52.86	8.15	146.88	15.42
Delhi	25.69			25.69	40.78	35.93	-4.85	61.62	0.05
UP	71.18	9.25	1.20	81.63	89.32	99.21	9.89	180.84	34.17
Uttarakhand		11.20		11.20	16.69	16.05	-0.64	27.25	0.00
HP		7.83		7.83	15.22	14.39	-0.82	22.23	0.00
J & K		4.83	0.00	4.83	21.07	25.98	4.92	30.81	1.50
Chandigarh				0.00	3.61	3.45	-0.16	3.45	0.00
Total	294.88	50.70	2.63	348.20	283.46	299.43	15.98	647.64	56.66

* 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 STOA/PX transaction
	Demand Met	Shortage	UI	STOA/PX transaction	Demand Met	Shortage	UI	STOA/PX transaction	
Punjab	4141	600	-12	-490	2986	0	-585	-590	-11.45
Haryana	4118	501	-6	-87	2983	0	-77	-104	-2.49
Rajasthan	6378	135	341	95	6988	64	1271	220	6.74
Delhi	3137	0	131	-255	1531	0	-369	-462	-7.63
UP	7465	1345	-208	391	7827	1000	717	391	9.39
Uttarakhand	1408	0	-43	316	927	0	1	316	7.58
HP	1175	0	-90	-305	705	0	-20	-47	-3.53
J&K	1465	0	-69	54	1144	0	152	133	2.36
Chandigarh	190	0	-33	0	90	0	-8	-30	-0.24
Total	29477	2581	11	-281	25181	1064	1082	-172	0.72

* STOA figures are at sellers boundary & PX figures are at regional boundary.

III. Regional Entities :

A. NTPC	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
	Singrauli STPS	2000	1910	2047	2054	46.32	1930	45.84	0.47
	Rihand I STPS	1000	717	1003	740	17.48	728	16.95	0.54
	Rihand II STPS	1000	970	1030	1041	23.54	981	22.92	0.61
	Dadri I STPS	840	769	839	649	17.61	734	17.37	0.25
	Dadri II STPS	980	922	981	722	21.23	884	21.15	0.08
	Unchahar I TPS	440	359	438	402	9.53	397	8.57	0.96
	Unchahar II TPS	440	361	220	202	9.50	396	8.55	0.95
	Unchahar III TPS	210	182	220	202	4.75	198	4.29	0.46
	ISTPP (Jhajihar)	500	473	405	381	8.91	371	8.92	-0.01
	Dadri GPS	830	613	548	529	13.08	545	13.11	-0.04
	Anta GPS	419	397	300	259	7.10	296	6.81	0.29
	Auraiya GPS	663	631	460	482	11.14	464	11.27	-0.13
	Sub Total (A)	9322	8305	8491	7663	190.18	7924	185.75	4.42
B. NPC	NAPS	440	199	236	243	4.79	200	4.78	0.01
	RAPS- B	440	410	449	443	9.82	409	9.84	-0.02
	RAPS- C	440	420	476	476	10.22	426	10.08	0.14
	Sub Total (B)	1320	1029	1161	1162	24.83	1034	24.70	0.13
C. NHPC	Chamera I HPS	540	534	540	0	2.00	83	1.94	0.07
	Chamera II HPS	300	297	242	0	1.91	79	2.01	-0.10
	Bairasuil HPS	180	179	120	0	0.66	27	0.68	-0.02
	Salal-HPS	690	151	228	212	3.80	158	3.62	0.18
	Tanakpur-HPS	94	52	55	52	1.26	52	1.30	-0.04
	Uri-HPS	480	157	238	105	3.80	158	3.44	0.36
	Dhauliganga-HPS	280	277	206	0	1.75	73	1.69	0.06
	Dulhasti-HPS	390	388	338	0	4.96	207	4.44	0.52
	Sewa-II HPS	120	119	81	0	0.29	12	0.28	0.01
	Sub Total (C)	3074	2153	2048	369	20.42	851	19.39	1.03
D.NJPC	Nathpa Jhakri	1500	1600	1585	163	11.98	499	11.68	0.30
	Sub Total (D)	1500	1600	1585	163	11.98	499	11.68	0.30
E. THDC	Tehri HPS	1000	1040	1041	0	4.04	168	4.00	0.04
	Koteshwar HPS	100	50	0	0	1.01	42	1.00	0.01
	Sub Total (E)	1100	1090	1041	0	5.06	211	5.00	0.06
F. BBMB	Bhakra HPS	1480	603	995	416	14.94	623	14.47	0.47
	Dehar HPS	990	218	495	165	5.75	240	5.24	0.51
	Pong HPS	396	238	306	186	5.93	247	5.71	0.22
	Sub Total (F)	2866	1059	1796	767	26.62	1109	25.42	1.20
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	0	0	0.55	23	0.56	-0.01
	KWHEP HPS(IPP)	1000	0	391	175	6.46	269	6.35	0.11
	Malana Stg-II HPS	100	0	0	0	0.00	0	0.00	0.00
	Shree Cement TPS	150	0	114	108	2.63	110	2.48	0.15
	Sub Total (G)	1442	0	505	283	9.63	401	9.39	0.25
H. Total Regional Entities (A-G)		20625	15236	16627	10407	288.71	12030	281.33	7.38

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	1050.00	1050.00	23.49	979
	Guru Nanak Dev TPS(Bhatinda)	440	215.00	215.00	4.62	193
	Guru Hargobind Singh TPS(L.mbt)	920	958.00	959.00	21.18	883
	Thermal (Total)	2620	2223.00	2224.00	49.30	2054
	Total Hydro	1148	471.00	262.00	11.21	467
Total Punjab	3768	2694	2486	60.51	2521	
Haryana	Panipat TPS	1360	962.00	1026.00	23.55	981
	DCRTPP (Yamuna nagar)	600	273.00	273.00	6.62	276
	Faridabad GPS (NTPC)	432	432.00	382.00	9.30	387
	RGTPP (khedar) (IPP)	1200	962.00	860.00	22.10	921
	Magnum Diesel (IPP)	25	0.00	0.00	0.00	0
	Thermal (Total)	3617	2629.00	2541.00	61.56	2565
	Total Hydro	62	39.00	42.00	0.94	39
	Total Haryana	3679	2668	2583	62.50	2604
Rajasthan	kota TPS	1240	1177.00	1183.00	27.69	1154
	suratgarh TPS	1500	1151.00	1146.00	27.25	1135
	Chabra TPS	500	325.00	445.00	8.05	335
	Dholpur GPS	330	280.00	287.00	6.64	277
	Ramgarh GPS	113	65.00	65.00	1.33	55
	RAPS A (NPC)	300	174.00	177.00	4.36	182
	Barsingsar (NLC)	250	89.00	87.00	2.01	84
	Giral LTPS (IPP)	250	84.00	105.00	2.05	86
	Rajwest LTPS (IPP)	135	365.00	380.00	7.76	324
	VSLP LTPS (IPP)	135	0.00	0.00	0.00	0
	Thermal (Total)	4753	3710.00	3875.00	87.15	3631
	Total Hydro	550	191.00	197.00	5.45	227
	Wind power	1294	96.00	0.00	0.57	24
	Biomass	71	36.00	36.00	0.86	36
	Renewable/Others (Total)	1365	132	36	1.43	59
	Total Rajasthan	6668	4033	4108	94.02	3918
	UP	Anpara TPS	1630	1083	1052	23.10
Obra TPS		1442	396	476	9.50	396
Paricha TPS		640	406	385	8.60	358
Panki TPS		210	140	175	3.20	133
Harduaganj TPS		375	0	24	0.10	4
Tanda TPS (NTPC)		440	390	403	9.56	398
Roza TPS (IPP)		600	567	567	13.40	558
Anpara-C (IPP)		600	0	234	2.50	104
Thermal (Total)		5937	3029	3358	71.18	2966
Vishnuparyag HPS (IPP)		400	159	150	3.61	150
Other Hydro		527	185	0	5.64	235
Cogeneration		951	50	50	1.20	50
Total UP		7815	3423	3558	81.63	3251
Uttarakhand		Total Hydro	1303	565	285	11.20
	Total Uttarakhand	1303	565	285	11.20	466
Delhi	Rajghat TPS	135	39	47	0.97	40
	Delhi Gas Turbine	282	151	155	3.78	158
	Pragati Gas Turbine	330	298	290	7.41	309
	Rithala GPS	108	26	29	0.64	27
	Bawana GPS	440	0	0	3.39	141
	Badarpur TPS (NTPC)	705	435	390	9.51	396
	Thermal (Total)	2000	949	911	25.69	1071
	Total Delhi	2000	949	911	25.69	1071
HP	Baspa HPS (IPP)	330	30	30	1.86	77
	Malana HPS (IPP)	101	0	0	0.38	16
	Other Hydro	571	255	194	5.59	233
	Total HP	1002	285	224	8	326
J & K	Baglihar HPS (IPP)	450	293	145	4.83	201
	Other Hydro	323	0	0	0.00	0
	Gas/Diesel/Others	183	0	0	0.00	0
	Total J & K	956	293	145	4.83	201
Total State Control Area Generation		27191	14910	14300	348.20	14358
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			41	1435	23.34	973
Total Regional Availability(Gross)		47816	31578	26142	660.26	27360

IV. Total Hydro Generation:

Regional Entities Hydro	9983	6975	1582	73.71	3071
State Control Area Hydro	5365	2029	1155	47.09	1962
Total Regional Hydro	15347	9004	2737	120.80	5034

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	100	100	200	0.79	1.37	-0.58
Gwalior-Agra (D/C)	72	0	671	209	2.40	0.00	2.40
Zerda-Kankroli	-222	-157	0	332	0.00	5.24	-5.24
Zerda-Bhinmal	-151	-26	84	268	0.00	2.66	-2.66
Malanpur-Auraiya	-161	-241	0	257	0.00	4.85	-4.85
Badod-Kota/Morak	-112	-105	0	235	0.00	3.44	-3.44
Sub Total WR	-774	-429			3.19	17.55	-14.37
Pusauli Bypass	-18	334	416	18	6.23	0.03	6.20
MZP- GKP (D/C)	339	625	944	0	12.40	0.00	12.40
Patna-Balia(D/C)	269	492	544	0	10.46	0.00	10.46
B'Sharif-Balia (D/C)	158	364	385	0	7.41	0.00	7.41
Barh - balia(D/C)	0	0	0	0	0.00	0.00	0.00
Pusauli-Sahupuri	103	91	117	0	2.18	0.00	2.18
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-36	-42	0	45	0.00	0.94	-0.94
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sub Total ER	815	1864			38.68	0.97	37.71
Total IR Exch	41	1435			41.86	18.52	23.34

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
21.30	1.21	22.51	4.13	-2.09	-0.93	-3.20	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
25.71	-8.64	17.07	37.71	-14.37	23.34	11.99	-5.72	6.27

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	0.30	10.30	44.70	89.10	54.70	3.40	0.60

<----- 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				
50.32	8.03	49.10	10.56	49.71	1.12	0.17	50.13	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	21:54	0	00:00	79.3	79.3	0.0	0.0
Gorakhpur	400	432	18:51	410	09:48	0.0	0.0	50.5	0.7
Bareilly	400	425	20:59	397	10:56	0.0	0.0	7.9	0.0
Kanpur	400	419	03:58	399	10:55	0.0	0.0	0.0	0.0
Dadri	400	420	03:37	400	09:52	0.0	0.0	0.0	0.0
Ballabgarh	400	424	03:57	398	10:56	0.0	0.0	7.9	0.0
Bawana	400	426	03:57	402	09:52	0.0	0.0	10.7	0.0
Bassi	400	427	03:58	399	10:57	0.0	0.0	8.0	0.0
Hissar	400	419	03:57	396	10:55	0.0	0.0	0.0	0.0
Moga	400	425	03:58	401	10:23	0.0	0.0	7.5	0.0
Abdullapur	400	427	03:51	401	10:55	0.0	0.0	16.1	0.0
Nalagarh	400	429	04:57	405	10:56	0.0	0.0	27.7	0.0
Kishenpur	400	421	03:42	390	16:36	0.0	0.0	0.1	0.0
Wagoora	400	406	03:42	365	18:25	31.3	69.6	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	509.44	1515.08	511.21	1605.30	242.17	363.39
Pong	426.72	384.05	419.90	889.00	422.34	1005.78	48.20	353.76
Tehri	829.79	740.04	817.20	942.25	NA	NA	85.51	105.00
Koteshwar	612.50	598.50	601.80	1.15	NA	NA	91.00	132.00
Chamera-I	760.00	748.75	754.65	NA	754.30	NA	76.38	86.03
Rihand	268.22	252.98	264.99	613.40	257.83	193.70	NA	NA
RPS	352.80	343.81	350.65	NA	NA	NA	NA	122.92
Jawahar Sagar	298.70	295.78	297.91	NA	NA	NA	NA	235.31
RSD	527.91	487.91	520.65	NA	520.91	NA	65.92	123.69

IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

1: CT Ratio changed of 400kV Singrauli - Allahabad ckt-1 from 1000/1 to 2000/1 at Singrauli end.

XI. Weather Conditions For 09.11.2011 :

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 : 09.11.2011

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER