

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 16.11.2011
Date of Reporting : 17.11.2011

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
28904	3591	32495	49.92	23642	1288	24930	49.88	631.8	64.58

* 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	47.70	10.39		58.09	23.07	22.68	-0.38	80.77	5.30
Haryana	52.02	0.81		52.83	27.73	30.51	2.78	83.34	9.60
Rajasthan	79.52	4.15	1.54	85.20	47.53	54.92	7.39	140.12	18.78
Delhi	28.03			28.03	40.04	32.74	-7.30	60.77	0.04
UP	88.12	6.91	4.10	99.13	85.87	80.81	-5.05	179.95	28.76
Uttarakhand		9.91		9.91	17.42	17.44	0.02	27.36	0.60
HP		6.51		6.51	14.87	15.98	1.11	22.49	0.00
J & K		7.34	0.00	7.34	20.99	26.20	5.21	33.54	1.50
Chandigarh				0.00	3.60	3.46	-0.15	3.46	0.00
Total	295.39	46.03	5.64	347.06	281.12	284.74	3.62	631.80	64.58

* 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	4063	250	-88	-564	2880	0	-88	-737	-12.71
Haryana	3625	1321	17	-88	2907	0	-276	-104	-2.49
Rajasthan	6353	731	763	301	5821	638	325	426	11.68
Delhi	3096	14	-126	-232	1521	0	-541	-470	-7.44
UP	7511	1275	-733	391	7475	650	83	391	9.39
Uttarakhand	1459	0	21	316	982	0	-16	316	7.58
HP	1111	0	-18	-362	726	0	122	-22	-3.57
J&K	1493	0	15	79	1247	0	261	158	2.96
Chandigarh	193	0	-15	0	83	0	-16	-30	-0.24
Total	28904	3591	-164	-158	23642	1288	-146	-72	5.17

* 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	1910	2050	2055	46.27	1928	45.84	0.43
	Rihand I STPS	1000	804	994	863	19.51	813	19.29	0.22
	Rihand II STPS	1000	975	1041	1040	23.65	985	23.40	0.25
	Dadri I STPS	840	582	628	642	14.07	586	13.97	0.10
	Dadri II STPS	980	922	956	965	22.29	929	22.13	0.16
	Unchahar I TPS	440	400	443	436	9.68	403	9.60	0.08
	Unchahar II TPS	440	402	440	438	9.71	405	9.65	0.06
	Unchahar III TPS	210	201	221	224	4.85	202	4.82	0.03
	ISTPP (Jhajihar)	1000	469	496	504	11.12	464	11.12	0.00
	Dadri GPS	830	618	538	533	13.09	545	13.04	0.04
	Anta GPS	419	407	367	337	9.10	379	8.55	0.55
	Auraiya GPS	663	618	411	402	10.35	431	10.72	-0.36
	Sub Total (A)	9822	8306	8585	8439	193.69	8070	192.13	1.56
	B. NPC	NAPS	440	199	234	239	4.81	200	4.78
RAPS- B		440	190	221	225	4.83	201	4.56	0.27
RAPS- C		440	420	477	476	10.18	424	10.08	0.10
Sub Total (B)		1320	809	932	940	19.82	826	19.42	0.40
C. NHPC	Chamera I HPS	540	534	360	0	2.74	114	2.68	0.06
	Chamera II HPS	300	297	246	0	1.67	69	1.63	0.04
	Bairasuil HPS	180	179	70	0	0.65	27	0.61	0.04
	Salal-HPS	690	156	115	215	3.65	152	3.80	-0.15
	Tanakpur-HPS	94	45	53	45	1.13	47	1.12	0.01
	Uri-HPS	480	158	233	105	3.96	165	3.83	0.13
	Dhauliganga-HPS	280	277	276	0	1.68	70	1.64	0.04
	Dulhasti-HPS	390	388	147	0	3.85	160	3.40	0.45
	Sewa-II HPS	120	119	110	0	0.37	15	0.36	0.01
	Sub Total (C)	3074	2153	1610	365	19.69	820	19.06	0.63
D.NJPC	Nathpa Jhakri	1500	1600	1605	0	10.56	440	10.80	-0.24
	Sub Total (D)	1500	1600	1605	0	10.56	440	10.80	-0.24
E. THDC	Tehri HPS	1000	693	1038	0	3.29	137	3.25	0.04
	Koteshwar HPS	200	43	86	85	1.02	43	1.00	0.02
Sub Total (E)	1200	736	1124	85	4.31	180	4.25	0.06	
F. BBMB	Bhakra HPS	1480	593	998	417	14.74	614	14.24	0.50
	Dehar HPS	990	195	495	145	4.96	207	4.68	0.28
	Pong HPS	396	285	300	300	7.27	303	6.84	0.43
	Sub Total (F)	2866	1074	1793	862	26.97	1124	25.77	1.20
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	0	0	0.47	20	0.44	0.03
	KWHEP HPS(IPP)	1000	0	400	130	5.59	233	5.97	-0.39
	Malana Stg-II HPS	100	0	0	0	0.00	0	0.00	0.00
	Shree Cement TPS	150	0	129	135	3.22	134	2.74	0.48
Sub Total (G)	1442	0	529	265	9.27	386	9.15	0.13	
H. Total Regional Entities (A-G)	21225	14678	16178	10956	284.31	11846	280.58	3.73	

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	23.36	974
	Guru Nanak Dev TPS(Bhatinda)	440	210.00	212.00	4.45	185
	Guru Hargobind Singh TPS(L.mbt)	920	908.00	908.00	19.89	829
	Thermal (Total)	2620	2163.00	2165.00	47.70	1988
	Total Hydro	1148	580.00	238.00	10.39	433
	Total Punjab	3768	2743	2403	58.09	2421
Haryana	Panipat TPS	1360	896.00	1059.00	23.87	994
	DCRTPP (Yamuna nagar)	600	274.00	266.00	6.54	272
	Faridabad GPS (NTPC)	432	416.00	415.00	9.91	413
	RGTPP (khedar) (IPP)	1200	491.00	445.00	11.71	488
	Magnum Diesel (IPP)	25	0.00	0.00	0.00	0
	Thermal (Total)	3617	2077.00	2185.00	52.02	2168
	Total Hydro	62	30.00	34.00	0.81	34
	Total Haryana	3679	2107	2219	52.83	2201
Rajasthan	kota TPS	1240	1170.00	1171.00	27.56	1148
	suratgarh TPS	1500	1146.00	1132.00	26.79	1116
	Chabra TPS	500	212.00	206.00	5.09	212
	Dholpur GPS	330	271.00	261.00	6.72	280
	Ramgarh GPS	113	65.00	65.00	1.67	69
	RAPS A (NPC)	300	0.00	0.00	0.00	0
	Barsingsar (NLC)	250	0.00	54.00	0.50	21
	Giral LTPS (IPP)	250	154.00	127.00	2.49	104
	Rajwest LTPS (IPP)	540	364.00	363.00	8.70	363
	VSLP LTPS (IPP)	135	0.00	0.00	0.00	0
	Thermal (Total)	5158	3382.00	3379.00	79.52	3313
	Total Hydro	550	134.00	218.00	4.15	173
	Wind power	1294	0.00	115.00	0.93	39
	Biomass	71	29.00	29.00	0.61	25
	Renewable/Others (Total)	1365	29	144	1.54	64
	Total Rajasthan	7073	3545	3741	85.20	3550
	UP	Anpara TPS	1630	1324	1364	31.80
Obra TPS		1442	562	580	13.10	546
Paricha TPS		640	349	369	8.80	367
Panki TPS		210	158	54	3.20	133
Harduaganj TPS		375	25	27	0.60	25
Tanda TPS (NTPC)		440	402	402	9.78	407
Roza TPS (IPP)		600	563	567	13.50	563
Anpara-C (IPP)		1200	243	315	7.35	306
Thermal (Total)		6537	3626	3678	88.12	3672
Vishnuparyag HPS (IPP)		400	144	134	3.33	139
Other Hydro		527	128	0	3.59	149
Cogeneration		951	170	170	4.10	171
Total UP		8415	4068	3982	99.13	3992
Uttarakhand		Total Hydro	1303	550	309	9.91
	Total Uttarakhand	1303	550	309	9.91	413
Delhi	Rajghat TPS	135	57	54	1.21	51
	Delhi Gas Turbine	282	192	180	4.55	190
	Pragati Gas Turbine	330	302	310	7.35	306
	Rithala GPS	108	22	29	0.53	22
	Bawana GPS	440	160	0	3.68	153
	Badarpur TPS (NTPC)	705	490	480	10.70	446
	Thermal (Total)	2000	1223	1163	28.03	1168
	Total Delhi	2000	1223	1163	28.03	1168
HP	Baspa HPS (IPP)	330	0	0	1.53	64
	Malana HPS (IPP)	101	2	0	0.34	14
	Other Hydro	571	239	157	4.64	193
	Total HP	1002	241	157	7	271
J & K	Baglihar HPS (IPP)	450	234	233	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	333	7.34	306
Total State Control Area Generation		28196	14765	14307	347.06	14322
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			730	-445	19.25	802
Total Regional Availability(Gross)		49421	31673	24818	650.62	26971

IV. Total Hydro Generation:

Regional Entities Hydro	10083	6661	1577	70.80	2950
State Control Area Hydro	5365	1951	1289	42.70	1779
Total Regional Hydro	15447	8612	2866	113.51	4729

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	8.02	-8.02
Gwalior-Agra (D/C)	85	-390	487	390	2.50	0.00	2.50
Zerda-Kankroli	-95	-274	0	285	0.00	4.31	-4.31
Zerda-Bhinmal	-6	-119	72	261	0.00	2.20	-2.20
Malanpur-Auraiya	-198	-291	0	281	0.00	4.64	-4.64
Badod-Kota/Morak	-50	-153	0	165	0.00	1.92	-1.92
Sub Total WR	-564	-1627			2.50	21.09	-18.59
Pusauli Bypass	-10	250	250	10	4.19	0.03	4.16
MZP- GKP (D/C)	468	296	892	0	12.73	0.00	12.73
Patna-Balia(D/C)	151	226	530	0	6.26	0.00	6.26
B'Sharif-Balia (D/C)	191	134	388	0	5.57	0.00	5.57
Barh - balia(D/C)	369	250	579	0	7.50	0.00	7.50
Pusauli-Sahupuri	160	66	164	0	2.50	0.00	2.50
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-35	-40	0	48	0.00	0.88	-0.88
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sub Total ER	1294	1182			38.75	0.91	37.84
Total IR Exch	730	-445			41.25	22.00	19.25

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
22.26	1.07	23.33	8.18	-1.68	-3.69	-5.09	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
27.82	-12.34	15.48	37.84	-18.59	19.25	10.02	-6.25	3.77

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	0.00	0.10	16.10	60.00	83.80	39.90	0.10

----- 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				
50.25	18.31	49.19	6.23	49.66	1.39	0.15	0.00	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	410	03:57	402	12:11	0.0	0.0	0.0	0.0
Gorakhpur	400	429	21:47	412	09:37	0.0	0.0	74.3	0.0
Bareilly	400	423	21:47	399	10:08	0.0	0.0	0.7	0.0
Kanpur	400	419	21:47	401	06:21	0.0	0.0	0.0	0.0
Dadri	400	418	21:47	401	10:48	0.0	0.0	0.0	0.0
Ballabgarh	400	421	03:01	405	14:40	0.0	0.0	0.8	0.0
Bawana	400	421	02:58	403	10:48	0.0	0.0	1.7	0.0
Bassi	400	424	20:55	395	10:07	0.0	0.0	2.9	0.0
Hissar	400	416	21:46	399	10:07	0.0	0.0	0.0	0.0
Moga	400	421	03:01	402	15:17	0.0	0.0	0.7	0.0
Abdullapur	400	426	03:01	404	10:46	0.0	0.0	19.3	0.0
Nalagarh	400	428	03:59	407	10:46	0.0	0.0	32.5	0.0
Kishenpur	400	411	15:20	391	18:25	0.0	0.0	0.0	0.0
Wagoora	400	396	03:58	371	07:00	18.8	68.0	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	508.83	1485.27	510.58	1575.10	230.73	368.49
Pong	426.72	384.05	418.96	848.35	421.54	961.02	58.73	419.12
Tehri	829.79	740.04	817.26	942.25	NA	NA	75.28	74.00
Koteshwar	612.50	598.50	599.90	0.45	NA	NA	75.00	79.00
Chamera-I	760.00	748.75	755.31	NA	755.14	1.60	75.16	74.28
Rihand	268.22	252.98	NA	NA	277.77	191.10	NA	NA
RPS	352.80	343.81	350.66	NA	349.00	NA	NA	252.19
Jawahar Sagar	298.70	295.78	297.88	NA	297.88	NA	NA	222.85
RSD	527.91	487.91	519.77	NA	520.43	NA	99.11	158.21

IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

XI. Weather Conditions For 16.11.2011 :

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 : 16.11.2011

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER