

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 07.11.2011
Date of Reporting : 08.11.2011

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
29224	2001	31225	50.11	24496	650	25146	50.06	649.8	35.19

* 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	43.61	11.09		54.70	26.46	24.79	-1.67	79.49	1.80
Haryana	63.81	0.98		64.79	24.80	24.89	0.09	89.68	1.60
Rajasthan	89.19	4.91	1.78	95.88	44.97	50.51	5.54	146.38	11.44
Delhi	26.57			26.57	36.24	31.04	-5.20	57.61	0.02
UP	92.00	5.39	1.20	98.59	92.11	92.94	0.82	191.53	20.33
Uttarakhand		10.89		10.89	16.82	16.34	-0.49	27.23	0.00
HP		8.05		8.05	15.11	13.42	-1.70	21.47	0.00
J & K		6.30	0.00	6.30	21.47	26.82	5.35	33.11	0.00
Chandigarh				0.00	3.51	3.32	-0.18	3.32	0.00
Total	315.18	47.61	2.98	365.77	281.48	284.05	2.57	649.82	35.19

* 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	3556	150	-161	-490	2926	0	-296	-590	-11.45
Haryana	4208	340	88	-53	2828	0	-426	-69	-1.66
Rajasthan	6376	211	276	95	6566	0	967	220	6.74
Delhi	2879	0	-437	-207	1574	0	-318	-600	-9.25
UP	7890	1300	-410	391	7696	650	375	391	9.39
Uttarakhand	1431	0	-5	316	899	0	-76	316	7.58
HP	1165	0	-69	-305	651	0	-73	-47	-2.95
J&K	1538	0	21	54	1269	0	259	133	2.36
Chandigarh	181	0	-18	0	87	0	-11	-30	-0.24
Total	29224	2001	-715	-199	24496	650	401	-276	0.51

* 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	1900	2022	2001	42.45	1769	44.49	-2.04
	Rihand I STPS	1000	794	994	580	19.16	798	18.62	0.54
	Rihand II STPS	1000	970	1030	1029	23.44	977	22.79	0.65
	Dadri I STPS	840	769	805	614	16.65	694	16.40	0.25
	Dadri II STPS	980	922	935	751	20.94	872	20.68	0.26
	Unchahar I TPS	440	365	425	283	8.85	369	8.69	0.15
	Unchahar II TPS	440	367	431	376	9.48	395	8.64	0.84
	Unchahar III TPS	210	184	225	183	4.46	186	4.32	0.14
	ISTPP (Jhajihar)	500	470	404	400	8.95	373	8.87	0.08
	Dadri GPS	830	678	547	574	13.37	557	13.49	-0.12
	Anta GPS	419	359	233	244	6.00	250	6.46	-0.45
	Auraiya GPS	663	635	471	472	11.01	459	11.51	-0.50
	Sub Total (A)	9322	8413	8522	7507	184.76	7698	184.96	-0.21
	B. NPC	NAPS	440	198	231	237	4.78	199	4.75
RAPS- B		440	409	452	455	9.83	410	9.82	0.02
RAPS- C		440	420	477	476	10.14	422	10.08	0.06
Sub Total (B)		1320	1027	1160	1168	24.75	1031	24.65	0.11
C. NHPC		Chamera I HPS	540	534	360	0	2.74	114	2.80
	Chamera II HPS	300	297	221	0	1.93	80	1.99	-0.06
	Bairasuil HPS	180	179	80	0	0.69	29	0.70	-0.01
	Salal-HPS	690	141	220	207	3.96	165	3.60	0.36
	Tanakpur-HPS	94	53	55	53	1.31	55	1.31	0.00
	Uri-HPS	480	156	146	120	3.85	160	3.85	0.00
	Dhauliganga-HPS	280	277	189	0	1.76	73	1.81	-0.05
	Dulhasti-HPS	390	360	81	0	3.99	166	4.19	-0.20
	Sewa-II HPS	120	119	66	0	0.35	15	0.38	-0.03
	Sub Total (C)	3074	2116	1418	380	20.57	857	20.62	-0.05
D. NJPC	Nathpa Jhakri	1500	1600	1590	0	11.44	477	11.06	0.38
	Sub Total (D)	1500	1600	1590	0	11.44	477	11.06	0.38
E. THDC	Tehri HPS	1000	693	1036	0	4.02	167	4.00	0.02
	Koteshwar HPS	100	81	0	92	1.99	83	1.14	0.85
	Sub Total (E)	1100	775	1036	92	6.01	250	5.14	0.87
F. BBMB	Bhakra HPS	1480	567	986	403	13.97	582	13.61	0.36
	Dehar HPS	990	204	495	150	5.02	209	4.89	0.13
	Pong HPS	396	254	306	186	6.39	266	6.11	0.28
	Sub Total (F)	2866	1025	1787	739	25.38	1058	24.60	0.78
	G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	3	0	0.53	22	0.56
KWHEP HPS(IPP)		1000	0	391	175	6.35	264	6.22	0.13
Malana Stg-II HPS		100	0	0	0	0.00	0	0.00	0.00
Shree Cement TPS		150	0	120	103	2.64	110	2.44	0.20
Sub Total (G)		1442	0	514	278	9.52	397	9.21	0.31
H. Total Regional Entities (A-G)	20625	14955	16027	10164	282.42	11768	280.24	2.18	

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	750.00	765.00	17.98	749
	Guru Nanak Dev TPS(Bhatinda)	440	215.00	215.00	4.58	191
	Guru Hargobind Singh TPS(L.mbt)	920	966.00	953.00	21.05	877
	Thermal (Total)	2620	1931.00	1933.00	43.61	1817
	Total Hydro	1148	312.00	256.00	11.09	462
	Total Punjab	3768	2243	2189	54.70	2279
Haryana	Panipat TPS	1360	1119.00	1111.00	25.87	1078
	DCRTPP (Yamuna nagar)	600	281.00	270.00	6.60	275
	Faridabad GPS (NTPC)	432	386.00	369.00	9.02	376
	RGTPP (khedar) (IPP)	1200	815.00	935.00	22.32	930
	Magnum Diesel (IPP)	25	0.00	0.00	0.00	0
	Thermal (Total)	3617	2601.00	2685.00	63.81	2659
	Total Hydro	62	46.00	35.00	0.98	41
	Total Haryana	3679	2647	2720	64.79	2700
Rajasthan	kota TPS	1240	1171.00	1177.00	27.63	1151
	suratgarh TPS	1500	1154.00	1154.00	27.24	1135
	Chabra TPS	500	419.00	436.00	9.93	414
	Dholpur GPS	330	281.00	285.00	6.92	289
	Ramgarh GPS	113	65.00	65.00	1.64	68
	RAPS A (NPC)	300	175.00	175.00	4.35	181
	Barsingsar (NLC)	250	104.00	93.00	2.23	93
	Giral LTPS (IPP)	250	71.00	0.00	1.09	46
	Rajwest LTPS (IPP)	135	364.00	364.00	8.14	339
	VSLP LTPS (IPP)	135	0.00	0.00	0.00	0
	Thermal (Total)	4753	3804.00	3749.00	89.19	3716
	Total Hydro	550	278.00	144.00	4.91	204
	Wind power	1294	44.00	4.00	0.84	35
	Biomass	71	43.00	43.00	0.94	39
	Renewable/Others (Total)	1365	87	47	1.78	74
	Total Rajasthan	6668	4169	3940	95.88	3995
	UP	Anpara TPS	1630	1088	952	32.30
Obra TPS		1442	469	486	11.60	483
Paricha TPS		640	347	356	8.40	350
Panki TPS		210	153	146	3.60	150
Harduaganj TPS		375	248	238	5.90	246
Tanda TPS (NTPC)		440	383	399	9.64	402
Roza TPS (IPP)		600	559	510	13.40	558
Anpara-C (IPP)		600	288	252	6.75	281
Thermal (Total)		5937	3570	3339	92.00	3833
Vishnuparyag HPS (IPP)		400	159	149	3.57	149
Other Hydro		527	116	0	1.82	76
Cogeneration		951	50	50	1.20	50
Total UP		7815	3895	3538	98.59	3959
Uttarakhand		Total Hydro	1303	555	335	10.89
	Total Uttarakhand	1303	555	335	10.89	454
Delhi	Rajghat TPS	135	105	106	2.43	101
	Delhi Gas Turbine	282	194	120	3.98	166
	Pragati Gas Turbine	330	298	310	7.44	310
	Rithala GPS	108	26	29	0.62	26
	Bawana GPS	440	0	30	3.02	126
	Badarpur TPS (NTPC)	705	430	380	9.08	378
	Thermal (Total)	2000	1053	945	26.57	1107
	Total Delhi	2000	1053	945	26.57	1107
HP	Baspa HPS (IPP)	330	30	60	1.85	77
	Malana HPS (IPP)	101	275	0	0.39	16
	Other Hydro	571	242	224	5.81	242
	Total HP	1002	547	284	8	335
J & K	Baglihar HPS (IPP)	450	293	145	4.68	195
	Other Hydro	323	52	98	1.62	68
	Gas/Diesel/Others	183	0	0	0.00	0
	Total J & K	956	345	243	6.30	262
Total State Control Area Generation		27191	15454	14194	365.77	15092
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			846	1079	22.57	940
Total Regional Availability(Gross)		47816	32327	25437	670.76	27800

IV. Total Hydro Generation:

Regional Entities Hydro	9983	6345	1489	72.91	3038
State Control Area Hydro	5365	2199	1297	44.04	1835
Total Regional Hydro	15347	8544	2786	116.95	4873

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	0	200	0.00	1.39	-1.39
Gwalior-Agra (D/C)	224	-170	578	228	2.53	0.00	2.53
Zerda-Kankroli	-191	-250	0	315	0.00	5.23	-5.23
Zerda-Bhinmal	-125	-134	43	242	0.00	2.60	-2.60
Malanpur-Auraiya	151	266	0	283	0.00	4.60	-4.60
Badod-Kota/Morak	-78	-144	0	191	0.00	3.48	-3.48
Sub Total WR	-219	-532			2.53	17.30	-14.77
Pusauli Bypass	74	54	466	128	5.10	0.19	4.91
MZP- GKP (D/C)	396	643	718	0	13.25	0.00	13.25
Patna-Balia(D/C)	312	447	516	0	9.54	0.00	9.54
B'Sharif-Balia (D/C)	217	414	487	0	8.40	0.00	8.40
Barh - balia(D/C)	0	0	0	0	0.00	0.00	0.00
Pusauli-Sahupuri	102	95	122	0	2.13	0.00	2.13
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-36	-42	0	45	0.00	0.90	-0.90
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sub Total ER	1065	1611			38.42	1.09	37.33
Total IR Exch	846	1079			40.95	18.39	22.57

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
21.12	1.21	22.33	1.72	0.10	-0.30	-4.51	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
23.75	-7.54	16.22	37.33	-14.77	22.57	13.58	-7.23	6.35

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	0.60	12.20	38.70	87.30	60.60	14.00	0.50

<----- 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	18.32	49.14	9.51	49.76	1.03	0.21	50.13	49.41

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	00:00	406	06:07	0.0	0.0	0.0	0.0
Gorakhpur	400	430	21:02	24	08:22	0.2	0.2	24.1	0.0
Bareilly	400	424	22:57	398	09:47	0.0	0.0	6.2	0.0
Kanpur	400	420	04:01	399	12:41	0.0	0.0	0.0	0.0
Dadri	400	421	04:01	399	09:46	0.0	0.0	0.2	0.0
Ballabgarh	400	423	01:00	399	09:48	0.0	0.0	10.9	0.0
Bawana	400	425	04:00	401	09:46	0.0	0.0	19.9	0.0
Bassi	400	425	03:59	399	09:48	0.0	0.0	9.4	0.0
Hissar	400	417	04:02	395	09:48	0.0	0.0	0.0	0.0
Moga	400	424	00:59	400	09:12	0.0	0.0	7.7	0.0
Abdullapur	400	427	00:59	402	09:48	0.0	0.0	19.0	0.0
Nalagarh	400	430	22:58	412	09:27	0.0	0.0	30.5	0.0
Kishenpur	400	416	00:59	389	09:13	0.0	0.0	0.0	0.0
Wagoora	400	401	03:00	369	08:39	52.2	73.8	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	509.50	1530.03	511.28	1605.30	249.27	353.96
Pong	426.72	384.05	420.02	889.22	422.45	1005.78	45.17	366.36
Tehri	829.79	740.04	817.20	942.25	NA	NA	98.51	91.00
Koteshwar	612.50	598.50	601.80	1.15	NA	NA	91.00	132.00
Chamera-I	760.00	748.75	754.52	NA	754.18	NA	74.32	74.32
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:

XI. Weather Conditions For 07.11.2011 :

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 : 07.11.2011

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER