

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 22.11.2011
Date of Reporting : 23.11.2011

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
29277	3069	32346	49.73	24378	1074	25452.3858	49.96	635.9	50.85

* 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	48.21	12.38		60.59	22.86	24.30	1.44	84.89	5.11
Haryana	65.47	0.81		66.28	24.95	23.94	-1.00	90.22	3.48
Rajasthan	83.86	5.25	1.43	90.54	51.00	56.38	5.39	146.93	9.98
Delhi	24.02			24.02	38.28	33.37	-4.91	57.39	0.21
UP	83.09	5.68	6.00	94.77	84.15	76.34	-7.81	171.11	29.86
Uttarakhand		9.06		9.06	17.16	18.38	1.22	27.44	0.60
HP		6.39		6.39	14.64	15.75	1.10	22.14	0.11
J & K		6.43	0.00	6.43	20.01	25.96	5.96	32.39	1.50
Chandigarh				0.00	3.51	3.42	-0.09	3.42	0.00
Total	304.64	46.00	7.43	358.08	276.54	277.85	1.31	635.93	50.85

* 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	4120	600	-100	-564	3108	0	-292	-737	-12.71
Haryana	4155	789	46	-88	3105	0	-231	-104	-2.49
Rajasthan	6172	625	72	401	6450	63	809	526	14.08
Delhi	3028	2	38	-230	1472	6	-643	-495	-7.59
UP	7429	1045	-665	391	7248	1005	-110	391	9.39
Uttarakhand	1436	0	45	316	975	0	81	316	7.58
HP	1169	8	-74	-340	717	0	209	4	-2.87
J&K	1579	0	95	79	1213	0	242	158	2.97
Chandigarh	189	0	-22	0	90	0	-1	-30	-0.24
Total	29277	3069	-565	-33	24378	1074	64	30	8.12

* 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	1921	2058	2062	46.26	1928	46.10	0.16
	Rihand I STPS	1000	700	769	774	16.94	706	16.80	0.14
	Rihand II STPS	1000	977	1043	1037	23.63	985	23.45	0.18
	Dadri I STPS	840	585	646	470	13.63	568	13.52	0.11
	Dadri II STPS	980	922	989	985	22.20	925	21.89	0.31
	Unchahar I TPS	440	350	435	385	8.46	352	8.37	0.08
	Unchahar II TPS	440	353	438	369	8.61	359	8.40	0.21
	Unchahar III TPS	210	176	220	182	4.23	176	4.18	0.05
	ISTPP (Jhajihar)	1000	475	509	507	11.30	471	11.28	0.02
	Dadri GPS	830	616	589	520	12.76	532	12.78	-0.02
	Anta GPS	419	410	338	336	8.47	353	8.07	0.39
	Auraiya GPS	663	632	432	462	10.47	436	10.32	0.15
	Sub Total (A)	9822	8117	8466	8089	186.95	7790	185.16	1.79
	B. NPC	NAPS	440	202	233	239	4.78	199	4.85
RAPS- B		440	197	225	224	4.85	202	4.73	0.12
RAPS- C		440	420	473	475	10.22	426	10.08	0.14
Sub Total (B)		1320	819	931	938	19.85	827	19.66	0.19
C. NHPC	Chamera I HPS	540	534	270	0	3.29	137	3.14	0.15
	Chamera II HPS	300	297	286	0	1.69	71	1.62	0.07
	Bairasuil HPS	180	179	20	0	0.67	28	0.61	0.06
	Salal-HPS	690	155	230	148	3.58	149	3.73	-0.15
	Tanakpur-HPS	94	41	40	41	1.00	42	1.04	-0.04
	Uri-HPS	480	142	238	105	3.56	148	3.56	-0.01
	Dhauliganga-HPS	280	219	210	0	2.19	91	2.16	0.03
	Dulhasti-HPS	390	388	315	0	4.04	168	3.96	0.08
	Sewa-II HPS	120	0	0	0	0.00	0	0.00	0.00
	Sub Total (C)	3074	1955	1609	294	20.02	834	19.83	0.19
D. NJPC	Nathpa Jhakri	1500	1350	1016	0	10.07	420	9.68	0.39
	Sub Total (D)	1500	1350	1016	0	10.07	420	9.68	0.39
E. THDC	Tehri HPS	1000	693	1089	0	5.10	212	5.00	0.10
	Koteshwar HPS	200	53	87	81	1.27	53	1.25	0.02
	Sub Total (E)	1200	746	1176	81	6.37	265	6.25	0.12
F. BBMB	Bhakra HPS	1480	621	951	413	15.52	647	14.89	0.63
	Dehar HPS	990	176	495	0	4.50	188	4.22	0.29
	Pong HPS	396	233	306	186	5.90	246	5.59	0.31
	Sub Total (F)	2866	1029	1752	599	25.92	1080	24.70	1.22
	G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	0	0	0.45	19	0.44
KWHEP HPS(IPP)		1000	0	300	125	5.27	220	5.21	0.06
Malana Stg-II HPS		100	0	0	0	0.00	0	0.00	0.00
Shree Cement TPS		150	0	131	136	3.25	135	2.92	0.32
Sub Total (G)		1442	0	431	261	8.97	374	8.57	0.40
H. Total Regional Entities (A-G)	21225	14016	15381	10262	278.14	11589	273.84	4.30	

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	23.51	980
	Guru Nanak Dev TPS(Bhatinda)	440	214.00	212.00	4.57	190
	Guru Hargobind Singh TPS(L.mbt)	920	964.00	948.00	20.13	839
	Thermal (Total)	2620	2223.00	2205.00	48.21	2009
	Total Hydro	1148	382.00	380.00	12.38	516
	Total Punjab	3768	2605	2585	60.59	2525
Haryana	Panipat TPS	1360	1105.00	1096.00	27.21	1134
	DCRTPP (Yamuna nagar)	600	271.00	270.00	6.58	274
	Faridabad GPS (NTPC)	432	408.00	326.00	9.47	394
	RGTPP (khedar) (IPP)	1200	878.00	855.00	22.21	925
	Magnum Diesel (IPP)	25	0.00	0.00	0.00	0
	Thermal (Total)	3617	2662.00	2547.00	65.47	2728
	Total Hydro	62	21.00	40.00	0.81	34
	Total Haryana	3679	2683	2587	66.28	2762
Rajasthan	kota TPS	1240	1169.00	1170.00	28.91	1205
	suratgarh TPS	1500	1144.00	1143.00	27.02	1126
	Chabra TPS	500	191.00	225.00	4.88	203
	Dholpur GPS	330	255.00	282.00	6.39	266
	Ramgarh GPS	113	65.00	65.00	1.65	69
	RAPS A (NPC)	300	176.00	174.00	4.35	181
	Barsingsar (NLC)	250	46.00	46.00	1.08	45
	Giral LTPS (IPP)	250	0.00	0.00	0.00	0
	Rajwst LTPS (IPP)	540	416.00	420.00	9.59	400
	VSLP LTPS (IPP)	135	0.00	0.00	0.00	0
	Thermal (Total)	5158	3462.00	3525.00	83.86	3494
	Total Hydro	550	177.00	176.00	5.25	219
	Wind power	1294	18.00	0.00	0.49	20
	Biomass	71	45.00	45.00	0.95	39
	Solar	50	0.00	0.00	0.01	0
	Renewable/Others (Total)	1365	63	45	1.43	60
		Total Rajasthan	7073	3702	3746	90.54
UP	Anpara TPS	1630	1324	1374	32.10	1338
	Obra TPS	1442	562	589	13.70	571
	Paricha TPS	640	353	360	8.50	354
	Panki TPS	210	153	162	3.60	150
	Harduaganj TPS	415	84	34	1.70	71
	Tanda TPS (NTPC)	440	401	403	9.81	409
	Roza TPS (IPP)	600	567	567	13.50	563
	Anpara-C (IPP)	1200	0	0	0.00	0
	Bajaj Energy Pvt.Ltd(IPP) TPS	180	14	0	0.18	8
	Thermal (Total)	6757	3458	3489	83.09	3462
	Vishnuparyag HPS (IPP)	400	139	134	3.18	132
	Other Hydro	527	97	0	2.50	104
	Cogeneration	951	250	250	6.00	250
		Total UP	8635	3944	3873	94.77
Uttarakhand	Total Hydro	1303	481	231	9.06	378
	Total Uttarakhand	1303	481	231	9.06	378
Delhi	Rajghat TPS	135	45	45	1.17	49
	Delhi Gas Turbine	282	195	176	4.64	193
	Pragati Gas Turbine	330	304	310	7.38	307
	Rithala GPS	108	27	29	0.66	28
	Bawana GPS	440	0	0	0.00	0
	Badarpur TPS (NTPC)	705	455	440	10.16	423
	Thermal (Total)	2000	1026	1000	24.02	1001
	Total Delhi	2000	1026	1000	24.02	1001
HP	Baspa HPS (IPP)	330	33	0	1.69	71
	Malana HPS (IPP)	101	26	0	0.34	14
	Other Hydro	571	199	107	4.36	182
		Total HP	1002	258	107	6
J & K	Baglihar HPS (IPP)	450	292	147	4.70	196
	Other Hydro	323	54	100	1.73	72
	Gas/Diesel/Others	183	0	0	0.00	0
		Total J & K	956	346	247	6.43
Total State Control Area Generation		28416	15045	14376	358.08	14787
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			646	542	24.13	1006
Total Regional Availability(Gross)		49641	31072	25180	660.35	27382

IV. Total Hydro Generation:

Regional Entities Hydro	10083	5984	1235	71.35	2973
State Control Area Hydro	5365	1762	1181	42.83	1784
Total Regional Hydro	15447	7746	2416	114.18	4757

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	-300	200	300	1.16	4.75	-3.59
Gwalior-Agra (D/C)	136	183	704	0	8.65	0.00	8.65
Zerda-Kankroli	-235	-163	0	252	0.00	3.51	-3.51
Zerda-Bhinmal	-9	-43	156	188	0.00	0.79	-0.79
Malanpur-Auraiya	-264	-249	0	284	0.00	4.94	-4.94
Badod-Kota/Morak	-94	-94	0	114	0.00	1.55	-1.55
Sub Total WR	-266	-666			9.81	15.54	-5.73
Pusauli Bypass	-127	0	148	155	0.73	1.08	-0.35
MZP- GKP (D/C)	366	467	541	0	10.39	0.00	10.39
Patna-Balia(D/C)	158	178	248	0	4.56	0.00	4.56
B'Sharif-Balia (D/C)	214	256	426	0	7.86	0.00	7.86
Barh - balia(D/C)	190	213	301	0	5.49	0.00	5.49
Pusauli-Sahupuri	146	134	163	0	2.79	0.00	2.79
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	912	1208			31.81	1.95	29.86
Total IR Exch	646	542			41.62	17.49	24.13

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
17.76	0.85	18.61	8.90	-1.37	0.46	-1.28	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
27.98	-8.10	19.87	29.86	-5.73	24.13	1.89	2.37	4.26

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	0.00	5.56	39.41	94.44	60.59	6.07	0.00

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				
50.15	3.20	49.22	18.05	49.76	0.85	0.16	50.04	49.42

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	412	22:21	404	06:11	0.0	0.0	0.0	0.0
Gorakhpur	400	425	08:01	408	06:22	0.0	0.0	41.0	0.0
Bareilly	400	422	04:06	399	14:49	0.0	0.0	3.3	0.0
Kanpur	400	420	21:30	400	16:06	0.0	0.0	0.0	0.0
Dadri	400	420	03:07	399	14:51	0.0	0.0	0.0	0.0
Ballabgarh	400	421	03:07	399	14:47	0.0	0.0	0.2	0.0
Bawana	400	422	03:05	402	09:42	0.0	0.0	6.2	0.0
Bassi	400	425	04:06	403	11:41	0.0	0.0	9.5	0.0
Hissar	400	413	04:06	395	14:48	0.0	0.0	0.0	0.0
Moga	400	414	20:53	399	15:27	0.0	0.0	0.0	0.0
Abdullapur	400	423	03:06	400	16:09	0.0	0.0	10.2	0.0
Nalagarh	400	416	04:53	406	14:21	0.0	0.0	0.0	0.0
Kishenpur	400	410	08:03	390	18:42	0.0	0.0	0.0	0.0
Wagoora	400	392	01:04	359	18:42	48.7	97.1	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 (m ³ /s)	Usage (m ³ /s)
Bhakra	513.59	445.62	508.21	1455.60	510.06	1545.02	219.00	406.35
Pong	426.72	384.05	418.28	807.91	421.05	931.43	63.40	345.44
Tehri	829.79	740.04	818.95	942.28	NA	NA	76.45	114.00
Koteshwar	612.50	598.50	602.20	1.33	NA	NA	114.00	84.00
Chamera-I	760.00	748.75	754.86	NA	754.25	NA	86.14	86.97
Rihand	268.22	252.98	261.58	587.70	257.74	189.70	NA	NA
RPS	352.80	343.81	350.64	NA	NA	NA	NA	249.61
Jawahar Sagar	298.70	295.78	297.58	NA	NA	NA	NA	243.84
RSD	527.91	487.91	518.60	NA	519.60	NA	100.47	253.80

IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

XI. Weather Conditions For 22.11.2011 :

1. Fog reported at Meerut , Abdulapur, Mandola, Mainpuri & Muradnagar.

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 : 22.11.2011

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER