

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 21.11.2011
Date of Reporting : 22.11.2011

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
28127	2975	31102	49.76	23236	1035	24270.5092	49.97	625.4	49.28

* 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	44.23	11.70		55.93	23.98	24.23	0.25	80.16	4.90
Haryana	63.54	0.79		64.34	25.34	23.65	-1.68	87.99	3.15
Rajasthan	84.77	5.01	2.98	92.75	49.14	51.52	2.39	144.28	12.32
Delhi	23.12			23.12	40.53	33.29	-7.24	56.41	0.07
UP	84.06	5.13	6.00	95.18	87.19	77.02	-10.17	172.20	26.48
Uttarakhand		9.27		9.27	17.29	17.74	0.45	27.00	0.60
HP		6.26		6.26	15.06	14.87	-0.19	21.13	0.26
J & K		6.43	0.00	6.43	20.74	26.38	5.65	32.81	1.50
Chandigarh				0.00	3.51	3.40	-0.11	3.40	0.00
Total	299.72	44.58	8.98	353.28	282.77	272.10	-10.66	625.38	49.28

* 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	3770	600	-52	-564	2764	0	-224	-737	-12.71
Haryana	3966	594	-52	-88	2924	0	-278	-104	-2.49
Rajasthan	5952	667	36	401	6271	0	540	526	14.08
Delhi	2991	14	-22	-230	1410	0	-877	-495	-7.59
UP	7181	1100	-935	391	7008	1035	-437	391	9.39
Uttarakhand	1432	0	48	316	879	0	-35	316	7.58
HP	1077	0	-158	-398	674	0	162	4	-3.05
J&K	1577	0	99	79	1218	0	234	158	2.97
Chandigarh	181	0	-35	0	89	0	-3	-30	-0.24
Total	28127	2975	-1071	-91	23236	1035	-918	30	7.94

* 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	1921	2071	2061	46.68	1945	46.10	0.58
	Rihand I STPS	1000	827	891	860	20.06	836	19.72	0.33
	Rihand II STPS	1000	977	1042	1036	23.47	978	23.30	0.17
	Dadri I STPS	840	581	626	616	13.66	569	13.46	0.20
	Dadri II STPS	980	922	993	971	22.37	932	21.94	0.43
	Unchahar I TPS	440	374	404	429	9.05	377	8.94	0.11
	Unchahar II TPS	440	376	400	439	9.10	379	8.94	0.16
	Unchahar III TPS	210	188	197	219	4.55	189	4.47	0.08
	ISTPP (Jhajihar)	1000	475	509	507	11.30	471	11.28	0.02
	Dadri GPS	830	586	618	496	12.28	512	12.21	0.07
	Anta GPS	419	405	367	362	8.87	369	8.35	0.52
	Auraiya GPS	663	631	449	452	10.71	446	10.79	-0.08
	Sub Total (A)	9822	8264	8567	8448	192.09	8004	189.50	2.59
B. NPC	NAPS	440	202	228	242	4.85	202	4.85	0.00
	RAPS- B	440	197	223	224	4.82	201	4.73	0.09
	RAPS- C	440	420	472	476	10.22	426	10.08	0.14
	Sub Total (B)	1320	819	923	942	19.88	828	19.66	0.23
C. NHPC	Chamera I HPS	540	534	180	0	3.26	136	3.13	0.13
	Chamera II HPS	300	297	281	0	1.65	69	1.57	0.08
	Bairasuil HPS	180	179	20	0	0.55	23	0.61	-0.06
	Salal-HPS	690	153	215	215	3.68	153	3.68	0.00
	Tanakpur-HPS	94	41	50	40	1.06	44	1.07	-0.01
	Uri-HPS	480	142	224	105	3.55	148	3.68	-0.13
	Dhauliganga-HPS	280	277	206	0	0.91	38	0.86	0.05
	Dulhasti-HPS	390	388	212	0	4.07	170	3.97	0.10
	Sewa-II HPS	120	0	0	0	0.00	0	0.00	0.00
	Sub Total (C)	3074	2011	1388	360	18.72	780	18.56	0.17
D. NJPC	Nathpa Jhakri	1500	1350	1359	0	10.80	450	10.24	0.56
	Sub Total (D)	1500	1350	1359	0	10.80	450	10.24	0.56
E. THDC	Tehri HPS	1000	693	1040	0	5.08	212	5.00	0.08
	Koteshwar HPS	200	43	87	0	1.02	42	1.00	0.02
	Sub Total (E)	1200	736	1127	0	6.10	254	6.00	0.10
F. BBMB	Bhakra HPS	1480	626	997	416	15.37	640	15.01	0.36
	Dehar HPS	990	180	495	0	4.33	180	4.32	0.01
	Pong HPS	396	240	306	186	6.17	257	5.77	0.40
	Sub Total (F)	2866	1046	1798	602	25.87	1078	25.10	0.77
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	0	0	0.46	19	0.44	0.02
	KWHEP HPS(IPP)	1000	0	365	125	5.41	225	5.39	0.02
	Malana Stg-II HPS	100	0	0	0	0.00	0	0.00	0.00
	Shree Cement TPS	150	0	136	136	3.24	135	2.73	0.50
	Sub Total (G)	1442	0	501	261	9.10	379	8.56	0.54
H. Total Regional Entities (A-G)		21225	14225	15663	10613	282.56	11773	277.61	4.95

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	23.43	976
	Guru Nanak Dev TPS(Bhatinda)	440	210.00	210.00	4.51	188
	Guru Hargobind Singh TPS(L.mbt)	920	860.00	664.00	16.29	679
	Thermal (Total)	2620	2115.00	1919.00	44.23	1843
	Total Hydro	1148	263.00	258.00	11.70	487
	Total Punjab	3768	2378	2177	55.93	2330
Haryana	Panipat TPS	1360	1094.00	1101.00	27.17	1132
	DCRTPP (Yamuna nagar)	600	235.00	280.00	6.42	268
	Faridabad GPS (NTPC)	432	400.00	325.00	9.29	387
	RGTPP (khedar) (IPP)	1200	806.00	762.00	20.66	861
	Magnum Diesel (IPP)	25	0.00	0.00	0.00	0
	Thermal (Total)	3617	2535.00	2468.00	63.54	2648
	Total Hydro	62	27.00	27.00	0.79	33
	Total Haryana	3679	2562	2495	64.34	2681
Rajasthan	kota TPS	1240	1120.00	1175.00	27.46	1144
	suratgarh TPS	1500	1137.00	1149.00	27.00	1125
	Chabra TPS	500	227.00	344.00	7.93	330
	Dholpur GPS	330	277.00	280.00	6.76	282
	Ramgarh GPS	113	65.00	65.00	1.65	69
	RAPS A (NPC)	300	170.00	173.00	4.32	180
	Barsingsar (NLC)	250	46.00	43.00	1.05	44
	Giral LTPS (IPP)	250	0.00	0.00	0.00	0
	Rajwst LTPS (IPP)	540	340.00	340.00	8.60	358
	VSLP LTPS (IPP)	135	0.00	0.00	0.00	0
	Thermal (Total)	5158	3382.00	3569.00	84.77	3532
	Total Hydro	550	228.00	138.00	5.01	209
	Wind power	1294	139.00	100.00	2.16	90
	Biomass	71	40.00	40.00	0.82	34
	Solar	50	0.00	0.00	0.00	0
	Renewable/Others (Total)	1365	179	140	2.98	124
		Total Rajasthan	7073	3789	3847	92.75
UP	Anpara TPS	1630	1337	1343	32.60	1358
	Obra TPS	1442	607	593	14.20	592
	Paricha TPS	640	359	356	8.60	358
	Panki TPS	210	158	158	3.50	146
	Harduaganj TPS	415	0	0	0.80	33
	Tanda TPS (NTPC)	440	400	407	9.79	408
	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	0	86	1.07	45
	Thermal (Total)	6757	3428	3510	84.06	3502
	Vishnuparyag HPS (IPP)	400	138	134	3.16	132
	Other Hydro	527	117	0	1.97	82
	Cogeneration	951	250	250	6.00	250
		Total UP	8635	3933	3894	95.18
Uttarakhand	Total Hydro	1303	490	243	9.27	386
	Total Uttarakhand	1303	490	243	9.27	386
Delhi	Rajghat TPS	135	44	44	1.03	43
	Delhi Gas Turbine	282	194	194	4.64	193
	Pragati Gas Turbine	330	301	315	7.28	303
	Rithala GPS	108	22	29	0.65	27
	Bawana GPS	440	0	0	0.00	0
	Badarpur TPS (NTPC)	705	470	345	9.53	397
	Thermal (Total)	2000	1031	927	23.12	963
	Total Delhi	2000	1031	927	23.12	963
HP	Baspa HPS (IPP)	330	0	0	1.50	63
	Malana HPS (IPP)	101	0	0	0.34	14
	Other Hydro	571	249	104	4.42	184
	Total HP	1002	249	104	6	261
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	268
Total State Control Area Generation		28416	14778	13934	353.28	14588
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			442	68	9.58	399
Total Regional Availability(Gross)		49641	30883	24615	645.42	26761

IV. Total Hydro Generation:

Regional Entities Hydro	10083	6173	1223	70.59	2941
State Control Area Hydro	5365	1720	1017	41.42	1726
Total Regional Hydro	15447	7893	2240	112.01	4667

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	-400	-500	0	500	0.00	10.90	-10.90
Gwalior-Agra (D/C)	431	-89	651	150	5.47	0.00	5.47
Zerda-Kankroli	-109	-217	0	275	0.00	4.71	-4.71
Zerda-Bhinmal	-30	-87	105	178	0.00	1.86	-1.86
Malanpur-Auraiya	-238	-282	0	335	0.00	4.32	-4.32
Badod-Kota/Morak	-65	-136	0	163	0.00	2.12	-2.12
Sub Total WR	-411	-1311			5.47	23.90	-18.43
Pusauli Bypass	-20	128	148	108	1.43	0.33	1.09
MZP- GKP (D/C)	372	502	615	0	11.31	0.00	11.31
Patna-Balia(D/C)	178	312	336	0	5.96	0.00	5.96
B'Sharif-Balia (D/C)	259	337	357	0	7.79	0.00	7.79
Barh - balia(D/C)	0	0	0	0	0.00	0.00	0.00
Pusauli-Sahupuri	99	140	163	0	2.74	0.00	2.74
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	853	1379			29.22	1.21	28.01
Total IR Exch	442	68			34.69	25.11	9.58

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
21.99	0.85	22.84	9.73	-1.29	-1.00	-2.08	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
31.57	-8.96	22.61	28.01	-18.43	9.58	-3.56	-9.47	-13.03

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	0.01	0.01	0.60	2.70	96.30	94.20	47.70	3.10

<----- 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				
50.08	17.04	48.94	16.54	49.98	0.19	0.14	50.07	49.25

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	409	21:40	400	15:48	0.0	0.0	0.0	0.0
Gorakhpur	400	429	17:03	407	06:48	0.0	0.0	27.3	0.0
Bareilly	400	423	22:16	401	15:42	0.0	0.0	2.2	0.0
Kanpur	400	419	22:13	399	11:41	0.0	0.0	0.0	0.0
Dadri	400	420	22:16	401	09:46	0.0	0.0	0.0	0.0
Ballabgarh	400	422	04:02	400	11:11	0.0	0.0	1.9	0.0
Bawana	400	423	04:03	405	09:45	0.0	0.0	5.5	0.0
Bassi	400	426	04:03	395	11:15	0.0	0.0	11.7	0.0
Hissar	400	414	04:02	398	11:14	0.0	0.0	0.0	0.0
Moga	400	416	01:54	404	11:14	0.0	0.0	0.0	0.0
Abdullapur	400	424	04:03	403	17:50	0.0	0.0	12.0	0.0
Nalagarh	400	425	20:08	409	10:29	0.0	0.0	9.5	0.0
Kishenpur	400	409	13:01	390	18:10	0.0	0.0	0.0	0.0
Wagoora	400	399	13:01	366	18:11	34.6	85.8	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	508.32	1470.42	510.17	1560.04	198.02	396.44
Pong	426.72	384.05	418.39	821.34	421.14	946.20	61.84	359.57
Tehri	829.79	740.04	817.05	942.25	NA	NA	102.09	114.00
Koteshwar	612.50	598.50	601.80	1.15	NA	NA	114.00	67.00
Chamera-I	760.00	748.75	754.86	NA	754.25	NA	86.14	86.97
Rihand	268.22	252.98	264.81	589.80	257.74	189.70	NA	NA
RPS	352.80	343.81	NA	NA	NA	NA	NA	NA
Jawahar Sagar	298.70	295.78	NA	NA	NA	NA	NA	NA
RSD	527.91	487.91	518.83	NA	519.67	NA	104.66	229.14

IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

XI. Weather Conditions For 21.11.2011 :

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 : 21.11.2011

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER