

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 24.11.2011
Date of Reporting : 25.11.2011

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
29844	3362	33206	49.40	24465	1303.57	25768.5079	49.85	646.7	51.54

* 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	49.76	11.87		61.63	25.30	24.82	-0.48	86.45	4.30
Haryana	64.47	0.90		65.37	25.23	25.33	0.09	90.70	3.28
Rajasthan	83.68	5.14	4.36	93.17	51.36	54.62	3.26	147.79	10.44
Delhi	22.83			22.83	38.41	34.12	-4.29	56.94	0.26
UP	79.95	7.03	6.00	92.98	88.04	85.99	-2.05	178.97	31.13
Uttarakhand		8.84		8.84	17.28	18.44	1.16	27.27	0.60
HP		5.81		5.81	15.49	16.22	0.73	22.03	0.03
J & K		6.43	0.00	6.43	20.74	26.62	5.88	33.05	1.50
Chandigarh				0.00	3.53	3.44	-0.09	3.44	0.00
Total	300.69	46.01	10.36	357.06	285.38	289.59	4.21	646.65	51.54

* 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	4175	600	-69	-564	3055	0	-286	-737	-12.71
Haryana	4119	656	-24	-88	2907	0	-368	-104	-2.49
Rajasthan	6561	368	323	401	6180	299	137	526	14.08
Delhi	3089	14	-35	-230	1462	0	-343	-650	-10.34
UP	7733	1565	-421	391	7730	1005	-4	391	9.39
Uttarakhand	1220	150	-55	316	969	0	98	316	7.58
HP	1164	10	-200	-340	712	0	184	4	-2.87
J&K	1598	0	16	79	1358	0	301	158	2.97
Chandigarh	185	0	-23	0	92	0	0	-30	-0.24
Total	29844	3362	-489	-33	24465	1303.57	-281	-126	5.37

* 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	2066	2068	46.90	1954	46.10	0.80
	Rihand I STPS	1000	804	922	860	19.47	811	19.29	0.18
	Rihand II STPS	1000	977	1040	1040	23.66	986	23.45	0.21
	Dadri I STPS	840	585	634	636	13.92	580	13.84	0.09
	Dadri II STPS	980	922	978	984	22.27	928	22.13	0.14
	Unchahar I TPS	440	400	436	437	9.64	402	9.58	0.06
	Unchahar II TPS	440	401	440	440	9.69	404	9.59	0.10
	Unchahar III TPS	210	198	218	215	7.47	311	4.73	2.74
	ISTPP (Jhajihar)	1000	475	505	516	11.18	466	11.28	-0.09
	Dadri GPS	830	791	791	581	16.06	669	16.13	-0.06
	Anta GPS	419	412	387	323	8.76	365	8.35	0.41
	Auraiya GPS	663	632	423	453	10.68	445	10.85	-0.16
	Sub Total (A)	9822	8518	8840	8553	199.71	8321	195.31	4.41
B. NPC	NAPS	440	200	236	238	4.84	202	4.80	0.04
	RAPS- B	440	244	228	454	6.33	264	5.85	0.48
	RAPS- C	440	420	476	475	10.22	426	10.08	0.14
	Sub Total (B)	1320	864	940	1167	21.40	892	20.73	0.67
C. NHPC	Chamera I HPS	540	534	360	0	3.32	138	3.35	-0.03
	Chamera II HPS	300	297	227	0	1.62	67	1.61	0.01
	Bairasuil HPS	180	179	10	0	0.62	26	0.59	0.03
	Salal-HPS	690	154	115	115	3.60	150	3.70	-0.10
	Tanakpur-HPS	94	39	48	36	1.01	42	1.00	0.01
	Uri-HPS	480	140	151	45	3.31	138	3.49	-0.18
	Dhauliganga-HPS	280	277	206	0	1.44	60	1.42	0.02
	Dulhasti-HPS	390	375	175	0	3.61	150	3.48	0.14
	Sewa-II HPS	120	0	0	0	0.00	0	0.00	0.00
	Sub Total (C)	3074	1995	1292	196	18.52	772	18.64	-0.12
D. NJPC	Nathpa Jhakri	1500	1558	1312	0	9.73	405	9.39	0.33
	Sub Total (D)	1500	1558	1312	0	9.73	405	9.39	0.33
E. THDC	Tehri HPS	1000	542	1040	0	4.01	167	4.00	0.01
	Koteshwar HPS	200	61	86	89	1.28	53	1.40	-0.12
	Sub Total (E)	1200	603	1126	89	5.29	220	5.40	-0.11
F. BBMB	Bhakra HPS	1480	675	895	484	16.55	690	16.20	0.35
	Dehar HPS	990	183	495	0	4.39	183	4.39	0.00
	Pong HPS	396	205	306	126	5.22	218	4.91	0.31
	Sub Total (F)	2866	1062	1696	610	26.16	1090	25.50	0.66
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	6	0	0.45	19	0.31	0.14
	KWHEP HPS(IPP)	1000	0	300	180	5.94	247	4.64	1.30
	Malana Stg-II HPS	100	0	0	0	0.00	0	0.00	0.00
	Shree Cement TPS	150	0	128	123	3.04	127	2.75	0.29
	Sub Total (G)	1442	0	434	303	9.43	393	7.70	1.73
H. Total Regional Entities (A-G)		21225	14601	15640	10918	290.23	12093	282.67	7.56

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	1045.00	23.75	989	
	Guru Nanak Dev TPS(Bhatinda)	440	215.00	215.00	4.63	193	
	Guru Hargobind Singh TPS(L.mbt)	920	956.00	952.00	21.39	891	
	Thermal (Total)	2620	2221.00	2212.00	49.76	2073	
	Total Hydro	1148	424.00	236.00	11.87	495	
	Total Punjab	3768	2645	2448	61.63	2568	
Haryana	Panipat TPS	1360	1108.00	1119.00	27.04	1127	
	DCRTPP (Yamuna nagar)	600	273.00	273.00	6.57	274	
	Faridabad GPS (NTPC)	432	418.00	325.00	9.58	399	
	RGTPP (khedar) (IPP)	1200	828.00	767.00	21.29	887	
	Magnum Diesel (IPP)	25	0.00	0.00	0.00	0	
	Thermal (Total)	3617	2627.00	2484.00	64.47	2686	
	Total Hydro	62	38.00	37.00	0.90	37	
		Total Haryana	3679	2665	2521	65.37	2724
Rajasthan	kota TPS	1240	1168.00	1167.00	27.70	1154	
	suratgarh TPS	1500	1143.00	1124.00	26.07	1086	
	Chabra TPS	500	390.00	330.00	8.45	352	
	Dholpur GPS	330	251.00	254.00	6.14	256	
	Ramgarh GPS	113	65.00	65.00	1.65	69	
	RAPS A (NPC)	300	173.00	178.00	4.39	183	
	Barsingsar (NLC)	250	48.00	49.00	1.10	46	
	Giral LTPS (IPP)	250	0.00	0.00	0.00	0	
	Rajwst LTPS (IPP)	540	315.00	321.00	8.17	341	
	VSLP LTPS (IPP)	135	0.00	0.00	0.00	0	
	Thermal (Total)	5158	3553.00	3488.00	83.68	3487	
	Total Hydro	550	205.00	191.00	5.14	214	
	Wind power	1294	229.00	144.00	3.37	140	
	Biomass	71	41.00	41.00	0.99	41	
	Solar	50	0.00	0.00	0.01	0	
	Renewable/Others (Total)	1365	270	185	4.36	182	
		Total Rajasthan	7073	4028	3864	93.17	3882
	UP	Anpara TPS	1630	1231	1186	29.10	1213
Obra TPS		1442	597	602	14.10	588	
Paricha TPS		640	356	357	8.60	358	
Panki TPS		210	149	153	3.60	150	
Harduaganj TPS		415	36	0	0.30	13	
Tanda TPS (NTPC)		440	398	398	9.72	405	
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	41	56	1.04	43	
Thermal (Total)		6757	3375	3319	79.95	3331	
Vishnuparyag HPS (IPP)		400	128	129	3.10	129	
Other Hydro		527	168	0	3.93	164	
Cogeneration		951	250	250	6.00	250	
		Total UP	8635	3921	3698	92.98	3745
Uttarakhand		Total Hydro	1303	488	230	8.84	368
	Total Uttarakhand	1303	488	230	8.84	368	
Delhi	Rajghat TPS	135	48	46	1.06	44	
	Delhi Gas Turbine	282	128	120	3.32	138	
	Pragati Gas Turbine	330	303	303	7.34	306	
	Rithala GPS	108	23	29	0.53	22	
	Bawana GPS	440	0	0	0.00	0	
	Badarpur TPS (NTPC)	705	490	470	10.57	441	
	Thermal (Total)	2000	992	968	22.83	951	
		Total Delhi	2000	992	968	22.83	951
HP	Baspa HPS (IPP)	330	0	0	1.44	60	
	Malana HPS (IPP)	101	1	0	0.34	14	
	Other Hydro	571	229	124	4.03	168	
		Total HP	1002	230	124	6	242
J & K	Baglihar HPS (IPP)	450	294	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	348	247	6.43	268
Total State Control Area Generation		28416	15317	14100	357.06	14748	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			399	554	24.88	1037	
Total Regional Availability(Gross)		49641	31356	25572	672.17	27878	

IV. Total Hydro Generation:

Regional Entities Hydro	10083	5860	1198	69.12	2880
State Control Area Hydro	5365	1901	1065	42.91	1788
Total Regional Hydro	15447	7761	2263	112.03	4668

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	-100	-200	0	500	0.00	4.77	-4.77
Gwalior-Agra (D/C)	82	84	665	111	6.41	0.00	6.41
Zerda-Kankroli	-180	-228	0	244	0.00	2.98	-2.98
Zerda-Bhinmal	-93	-112	221	166	0.00	0.32	-0.32
Malanpur-Auraiya	-235	-263	0	263	0.00	4.69	-4.69
Badod-Kota/Morak	-49	-118	0	124	0.00	1.54	-1.54
Sub Total WR	-575	-837			6.41	14.29	-7.88
Pusauli Bypass	-138	29	132	138	0.96	0.97	-0.01
MZP- GKP (D/C)	504	632	780	0	14.16	0.00	14.16
Patna-Balia(D/C)	338	397	530	0	9.84	0.00	9.84
B'Sharif-Balia (D/C)	205	249	286	0	7.05	0.00	7.05
Barh - balia(D/C)	0	0	0	0	0.00	0.00	0.00
Pusauli-Sahupuri	100	124	161	0	2.60	0.00	2.60
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	974	1391			34.61	1.85	32.77
Total IR Exch	399	554			41.02	16.14	24.88

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
16.24	0.79	17.03	9.48	-0.43	4.84	-4.82	1.32	-1.32

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
32.67	-12.09	20.58	32.77	-7.88	24.88	0.10	4.20	4.30

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	0.10	0.70	16.70	56.30	82.80	43.70	3.00

<----- 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				
50.33	8.03	48.99	18.13	49.67	1.44	0.10	50.17	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	02:59	404	09:15	0.0	0.0	0.0	0.0
Gorakhpur	400	427	17:04	418	15:41	0.0	0.0	20.9	0.0
Bareilly	400	422	04:04	399	09:39	0.0	0.0	1.3	0.0
Kanpur	400	417	04:03	397	09:39	0.0	0.0	0.0	0.0
Dadri	400	418	04:07	398	09:44	0.0	0.0	0.0	0.0
Ballabgarh	400	420	04:03	397	09:37	0.0	0.0	0.0	0.0
Bawana	400	421	03:10	400	09:44	0.0	0.0	1.6	0.0
Bassi	400	416	17:03	393	08:18	0.0	0.0	0.0	0.0
Hissar	400	410	04:04	396	09:09	0.0	0.0	0.0	0.0
Moga	400	412	03:33	397	07:13	0.0	0.0	0.0	0.0
Abdullapur	400	422	04:05	401	09:42	0.0	0.0	5.0	0.0
Nalagarh	400	420	10:14	408	00:00	0.0	0.0	0.0	0.0
Kishenpur	400	410	04:05	387	18:44	0.0	3.6	0.0	0.0
Wagoora	400	393	03:28	370	07:12	31.8	81.3	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	507.97	1455.60	509.97	1545.02	213.71	450.66
Pong	426.72	384.05	418.09	807.91	420.84	931.43	62.35	305.23
Tehri	829.79	740.04	816.90	942.25	NA	NA	76.15	91.00
Koteshwar	612.50	598.50	602.20	1.33	NA	NA	114.00	84.00
Chamera-I	760.00	748.75	753.55	NA	752.95	8.80	58.24	92.54
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 24.11.2011 :

1.Normal

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 : 24.11.2011

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER