

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 26.12.2011
Date of Reporting : 27.12.2011

I. Regional Availability/Demand:

Demand Met	Evening Peak (19:00 Hrs) MW			Demand Met	Off Peak (03:00 Hrs) MW			Day Energy (Net MU)	
	Shortage	Requirement	Freq* (Hz)		Shortage	Requirement	Freq* (Hz)	Demand Met	Shortage
29948	4212	34160	49.65	25496	1005	26501	50.13	661.9	80.98

* Half hourly (two 15 minutes block--one block each before and after the designated time) average frequency

II. A. State's Load 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	53.88	9.46		63.34	27.83	28.03	0.19	91.37	5.80
Haryana	42.45	0.53		42.99	25.38	36.93	11.55	79.92	24.92
Rajasthan	85.62	5.09	10.05	100.76	48.05	56.82	8.77	157.58	0.98
Delhi	22.75			22.75	44.85	39.80	-5.05	62.55	0.73
UP	77.23	6.52	15.60	99.35	76.27	82.18	5.91	181.53	43.12
Uttarakhand		9.79		9.79	16.78	17.23	0.45	27.01	2.59
HP		5.18		5.18	16.92	18.35	1.44	23.53	0.00
J & K		5.50	0.00	5.50	22.65	29.21	6.56	34.70	1.90
Chandigarh				0.00	3.27	3.69	0.42	3.69	0.93
Total	281.93	42.07	25.65	349.65	281.98	312.23	30.24	661.88	80.98

* Shortage furnished by the respective constituent.\$ Others include UP Co-generation and JK Diesel

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	STOA/PX transaction	STOA/PX transaction
Punjab	4524	600	-87	-403	3433	0	-96	-901	-11.18	
Haryana	3470	1566	314	-68	3320	0	579	-70	-1.67	
Rajasthan	6515	71	665	421	6188	0	363	546	14.66	
Delhi	3257	6	-113	-122	1410	0	-108	-398	-4.87	
UP	7806	1785	-396	167	7910	1005	644	167	4.01	
Uttarakhand	1369	80	-40	332	1003	0	21	332	7.97	
HP	1185	4	-69	8	720	0	30	237	3.70	
J&K	1614	100	61	252	1417	0	301	254	6.10	
Chandigarh	208	0	1	0	95	0	10	-30	-0.24	
Total	29948	4212	336	588	25496	1005	1744	137	18.47	

* 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	Off Peak MW	Energy	Average	Schedule	UI
				(Gross)	(Gross)	(Net MU)	Sentout(MW)	Net MU	Net MU
	Singrauli STPS	2000	1659	1791	1860	39.80	1658	39.81	-0.02
	Rihand I STPS	1000	437	460	446	10.62	442	10.48	0.14
	Rihand II STPS	1000	977	1045	1039	23.70	988	23.45	0.25
	Dadri I STPS	840	793	869	686	18.23	760	18.03	0.20
	Dadri II STPS	980	967	1020	770	28.38	1182	22.24	6.14
	Unchahar I TPS	440	374	434	400	9.03	376	8.98	0.05
	Unchahar II TPS	440	374	438	402	9.05	377	8.98	0.07
	Unchahar III TPS	210	187	219	198	4.52	188	4.49	0.03
	ISTPP (Jhajjar)	1000	475	502	460	10.77	449	10.61	0.16
	Dadri GPS	830	839	821	667	18.76	782	18.91	-0.15
	Anta GPS	419	277	270	236	6.38	266	6.22	0.16
	Auraiya GPS	663	654	630	554	14.35	598	14.35	0.00
	Sub Total (A)	9822	8014	8499	7718	193.58	8066	186.56	7.02
B. NPC	NAPS	440	221	253	257	5.26	219	5.30	-0.04
	RAPS- B	440	420	466	467	10.08	420	10.08	0.00
	RAPS- C	440	420	471	475	10.22	426	10.08	0.14
	Sub Total (B)	1320	1061	1190	1199	25.55	1065	25.46	0.09
C. NHPC	Chamera I HPS	540	0	0	0	0.00	0	0.00	0.00
	Chamera II HPS	300	297	174	0	1.15	48	1.11	0.04
	Bairasuil HPS	180	179	120	0	0.49	21	0.50	0.00
	Salal-HPS	690	100	223	30	2.28	95	2.20	0.07
	Tanakpur-HPS	94	29	32	25	0.74	31	0.71	0.03
	Uri-HPS	480	119	229	43	2.81	117	2.81	0.00
	Dhauliganga-HPS	280	210	136	0	1.10	46	1.09	0.00
	Dulhasti-HPS	390	388	400	0	2.94	122	2.95	-0.01
	Sewa-II HPS	120	79	41	42	0.58	24	0.70	-0.12
	Sub Total (C)	3074	1401	1355	140	12.08	503	12.07	0.01
D. NJPC	Nathpa Jhakri	1500	1133	996	0	6.28	262	6.20	0.08
	Sub Total (D)	1500	1133	996	0	6.28	262	6.20	0.08
E. THDC	Tehri HPS	1000	1030	751	0	4.53	189	4.50	0.03
	Koteshwar HPS	200	119	203	102	2.13	89	2.00	0.13
	Sub Total (E)	1200	1149	954	102	6.67	278	6.50	0.17
F. BBMB	Bhakra HPS	1480	672	944	522	16.54	689	16.12	0.42
	Dehar HPS	990	120	495	0	3.28	137	2.89	0.40
	Pong HPS	396	140	246	66	3.59	150	3.35	0.24
	Sub Total (F)	2866	932	1685	588	23.41	975	22.36	1.05
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	0	0	0.17	7	0.25	-0.08
	KWHEP HPS(IPP)	1000	0	300	0	3.73	155	3.60	0.13
	Malana Stg-II HPS	100	0	0	0	0.00	0	0.00	0.00
	Shree Cement TPS	150	0	140	135	3.30	137	2.82	0.48
	Sub Total (G)	1442	0	440	135	7.20	300	6.67	0.52
H. Total Regional Entities (A-G)		21225	13689	15119	9882	274.76	11449	265.82	8.94

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	1260	1260	27.96	1165
	Guru Nanak Dev TPS(Bhatinda)	440	216	216	4.65	194
	Guru Hargobind Singh TPS(L.mbt)	920	962	964	21.28	887
	Thermal (Total)	2620	2438	2440	53.88	2245
	Total Hydro	1148	497	197	9.46	394
	Total Punjab	3768	2935	2637	63.34	2639
Haryana	Panipat TPS	1360	1022	1021	24.50	1021
	DCRTPP (Yamuna nagar)	600	281	281	6.69	279
	Faridabad GPS (NTPC)	432	431	445	10.50	438
	RGTPP (khedar) (IPP)	1200	0	0	0.76	32
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Thermal (Total)	3617	1734	1747	42.45	1769
	Total Hydro	62	23	22	0.53	22
	Total Haryana	3679	1757	1769	42.99	1791
Rajasthan	kota TPS	1240	1181	1182	27.73	1155
	suratgarh TPS	1500	1146	1154	27.33	1139
	Chabra TPS	500	226	230	5.34	223
	Dholpur GPS	330	221	220	5.29	220
	Ramgarh GPS	113	44	65	1.13	47
	RAPS A (NPC)	300	180	184	4.50	188
	Barsingar (NLC)	250	60	60	1.57	65
	Giral LTPS (IPP)	250	0	130	1.21	50
	Rajwest LTPS (IPP)	540	489	455	11.53	480
	VSLP LTPS (IPP)	135	0	0	0.00	0
	Thermal (Total)	5158	3547	3680	85.62	3568
	Total Hydro	550	182	129	5.09	212
	Wind power	1294	115	148	3.69	154
	Biomass	71	46	46	1.10	46
	Solar	50	0	0	0.17	7
	Renewable/Others (Total)	1365	161	194	10.05	419
	Total Rajasthan	7073	3890	4003	100.76	4198
	UP	Anpara TPS	1630	1351	1365	29.20
Obra TPS		1442	611	604	14.00	583
Paricha TPS		640	224	208	5.00	208
Panki TPS		210	131	113	3.40	142
Harduaganj TPS		415	242	47	1.40	58
Tanda TPS (NTPC)		440	401	399	9.77	407
Roza TPS (IPP)		600	511	513	12.30	513
Anpara-C (IPP)		1200	0	0	0.00	0
Bajaj Energy Pvt.Ltd(IPP) TPS		180	120	78	2.16	90
Thermal (Total)		6757	3591	3327	77.23	3218
Vishnuparyag HPS (IPP)		400	89	94	2.18	91
Other Hydro		527	193	0	4.35	181
Cogeneration		951	650	650	15.60	650
Total UP		8635	4523	4071	99.35	4049
Uttarakhand		Total Hydro	1303	548	335	9.79
	Total Uttarakhand	1303	548	335	9.79	408
Delhi	Rajghat TPS	135	47	48	1.12	47
	Delhi Gas Turbine	282	162	144	3.77	157
	Praagati Gas Turbine	330	313	243	7.35	306
	Rithala GPS	108	0	0	0.00	0
	Bawana GPS	440	0	49	0.00	0
	Badarpur TPS (NTPC)	705	455	470	10.51	438
	Thermal (Total)	2000	977	905	22.75	948
	Total Delhi	2000	977	905	22.75	948
HP	Baspa HPS (IPP)	330	0	0	1.32	55
	Malana HPS (IPP)	101	0	0	0.27	11
	Other Hydro	571	205	93	3.60	150
	Total HP	1002	205	93	5	216
J & K	Baglihar HPS (IPP)	450	152	132	3.96	165
	Other Hydro	323	54	100	1.54	64
	Gas/Diesel/Others	183	0	0	0.00	0
	Total J & K	956	206	232	5.50	229
Total State Control Area Generation		28416	15041	14045	349.65	14478
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			1604	2103	55.03	2293
Total Regional Availability(Gross)		49641	31764	26030	679.45	28220

IV. Total Hydro Generation:

Regional Entities Hydro	10083	5430	965	55.63	2318
State Control Area Hydro	5365	1854	1008	39.90	1662
Total Regional Hydro	15447	7284	1973	95.53	3980

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	0	400	200	4.83	0.06	4.78
Gwalior-Agra (D/C)	104	631	760	0	13.14	0.00	13.14
Zerda-Kankroli	-116	-51	33	151	0.00	1.51	-1.51
Zerda-Bhinmal	39	-9	151	112	0.47	0.00	0.47
Malanpur-Auraiya	-231	-142	0	260	0.00	3.40	-3.40
Badod-Kota/Morak	-78	-110	0	130	0.00	2.14	-2.14
Sub Total WR	118	319			18.44	7.11	11.34
Pusauli Bypass	-78	210	314	222	3.73	0.04	3.69
MZP- GKP (D/C)	588	496	842	0	13.64	0.00	13.64
Patna-Balia(D/C)	332	700	851	0	14.67	0.00	14.67
B'Sharif-Balia (D/C)	210	328	392	0	6.95	0.00	6.95
Barh - balia(D/C)	333	0	392	0	3.11	0.00	3.11
Pusauli-Sahupuri	131	84	159	0	2.32	0.00	2.32
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-30	-34	0	48	0.00	0.69	-0.69
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sub Total ER	1486	1784			44.42	0.73	43.69
Total IR Exch	1604	2103			62.86	7.83	55.03

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
19.53	0.35	19.88	13.96	5.67	0.38	3.40	2.76	-2.76

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
36.98	1.35	38.33	43.69	11.34	55.03	6.71	9.99	16.69

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	0.50	2.10	21.30	51.90	78.40	47.80	6.30	0.30

Frequency (Hz)				Average Frequency	Frequency Variation Index	Std. Dev.	Frequency in 15 Min Block	
Maximum		Minimum					MAX	MIN
Freq	Time	Freq	Time	Hz	(Hz)	(Hz)		
50.34	6.04	48.91	21.08	49.68	1.53	0.22	50.25	49.31

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	01:15	398	11:12	0.0	0.0	0.0	0.0
Gorakhpur	400	431	13:07	402	11:08	0.0	0.0	46.2	1.7
Bareilly	400	423	21:18	397	11:12	0.0	0.0	5.5	0.0
Kanpur	400	415	03:07	398	08:43	0.0	0.0	0.0	0.0
Dadri	400	418	03:58	402	11:12	0.0	0.0	0.0	0.0
Ballabgarh	400	422	03:06	402	12:06	0.0	0.0	8.8	0.0
Bawana	400	422	04:08	404	15:12	0.0	0.0	3.1	0.0
Bassi	400	421	03:58	397	12:20	0.0	0.0	0.1	0.0
Hissar	400	412	16:31	395	12:47	0.0	0.0	0.0	0.0
Moga	400	419	16:33	400	08:20	0.0	0.0	0.0	0.0
Abdullapur	400	422	04:07	403	18:21	0.0	0.0	3.9	0.0
Nalagarh	400	424	03:07	408	11:06	0.0	0.0	17.0	0.0
Kishenpur	400	409	16:33	386	08:20	0.0	11.8	0.0	0.0
Wagooora	400	389	03:52	357	19:13	78.2	100.0	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 (m ³ /s)	Usage (m ³ /s)
Bhakra	513.59	445.62	503.07	1219.07	504.33	1285.56	171.09	454.48
Pong	426.72	384.05	414.30	644.91	417.40	768.49	39.75	217.53
Tehri	829.79	740.04	810.65	822.28	818.65	982.26	68.84	105.00
Koteswar	612.50	598.50	610.90	4.95	NA	NA	119.00	135.00
Chamera-I	760.00	748.75	746.99	NA	746.91	NA	43.58	0.00
Rihand	268.22	252.98	262.66	526.00	257.40	NA	NA	NA
RPS	352.80	343.81	350.18	NA	NA	NA	NA	276.09
Jawahar Sagar	298.70	295.78	297.88	NA	NA	NA	NA	22.85
RSD	527.91	487.91	511.93	NA	514.60	NA	66.54	344.08

* NA: Not Available

IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

XI. Weather Conditions For 26.12.2011 :

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 : 26.12.2011

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER