

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 11.12.2011
Date of Reporting : 12.12.2011

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
27901	2900	30801	49.87	24341	650	24991	50.06	627.2	40.78

* 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	49.48	10.59		60.07	24.12	20.37	-3.75	80.44	5.00
Haryana	55.20	0.71		55.91	26.43	33.44	7.02	89.35	8.65
Rajasthan	79.54	4.63	5.49	89.66	49.22	61.94	12.72	151.60	0.49
Delhi	24.23			24.23	38.62	28.69	-9.92	52.92	0.08
UP	82.41	4.90	14.40	101.71	78.57	66.29	-12.28	168.00	23.81
Uttarakhand		7.07		7.07	15.56	18.98	3.42	26.05	0.52
HP		4.96		4.96	17.25	17.17	-0.07	22.13	0.34
J & K		5.56	0.00	5.56	24.21	28.14	3.94	33.70	1.90
Chandigarh				0.00	3.24	2.99	-0.25	2.99	0.00
Total	290.86	38.41	19.89	349.16	277.20	278.02	0.82	627.18	40.78

* 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	
Punjab	3658	600	-534	-403	2961	0	-79	-901	-11.18
Haryana	3876	1162	16	-67	3362	0	101	-70	-1.66
Rajasthan	6463	0	931	408	6270	0	768	523	14.17
Delhi	2761	2	-352	-122	1312	0	-328	-598	-6.27
UP	7248	950	-1199	267	7272	650	-26	267	6.41
Uttarakhand	1297	70	150	355	938	0	95	355	8.52
HP	1065	16	-374	78	768	0	158	237	4.39
J&K	1373	100	-288	252	1374	0	208	254	6.08
Chandigarh	161	0	-9	0	83	0	-9	-30	-0.24
Total	27901	2900	-1659	768	24341	650	888	37	20.22

* 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	1725	1860	1848	41.89	1745	41.40	0.49
	Rihand I STPS	1000	817	1003	873	19.77	824	19.60	0.18
	Rihand II STPS	1000	977	1038	1034	23.60	983	23.45	0.15
	Dadri I STPS	840	585	649	444	13.16	548	13.07	0.09
	Dadri II STPS	980	922	979	917	21.49	895	21.94	-0.45
	Unchahar I TPS	440	375	442	340	8.96	373	8.87	0.09
	Unchahar II TPS	440	374	439	359	8.92	372	8.91	0.01
	Unchahar III TPS	210	187	217	178	4.46	186	4.45	0.01
	ISTPP (Jhajjar)	1000	475	511	504	11.20	467	11.28	-0.08
	Dadri GPS	830	819	588	464	14.76	615	14.74	0.03
	Anta GPS	419	272	223	223	5.47	228	5.13	0.35
	Auraiya GPS	663	643	444	357	10.31	430	10.23	0.08
	Sub Total (A)	9822	8171	8393	7541	183.99	7666	183.06	0.94
B. NPC	NAPS	440	200	255	245	5.24	218	4.80	0.44
	RAPS- B	440	246	233	232	5.05	210	5.91	-0.86
	RAPS- C	440	420	476	477	10.23	426	10.08	0.15
	Sub Total (B)	1320	866	964	954	20.52	855	20.79	-0.27
C. NHPC	Chamera I HPS	540	0	0	0	0.00	0	0.00	0.00
	Chamera II HPS	300	297	211	0	1.23	51	1.28	-0.06
	Bairasuil HPS	180	120	80	0	0.43	18	0.61	-0.17
	Salal-HPS	690	123	302	108	2.53	106	2.95	-0.42
	Tanakpur-HPS	94	35	46	30	0.82	34	0.88	-0.06
	Uri-HPS	480	147	227	45	3.39	141	3.84	-0.45
	Dhauliganga-HPS	280	277	138	0	1.25	52	1.37	-0.12
	Dulhasti-HPS	390	388	194	0	2.85	119	3.50	-0.65
	Sewa-II HPS	120	0	0	0	0.00	0	0.00	0.00
	Sub Total (C)	3074	1386	1198	183	12.49	521	14.42	-1.93
D. NJPC	Nathpa Jhakri	1500	1233	1420	0	7.48	312	8.10	-0.62
	Sub Total (D)	1500	1233	1420	0	7.48	312	8.10	-0.62
E. THDC	Tehri HPS	1000	1040	745	0	6.81	284	7.00	-0.19
	Koteshwar HPS	200	113	109	0	1.75	73	1.75	0.00
	Sub Total (E)	1200	1153	854	0	8.56	357	8.75	-0.19
F. BBMB	Bhakra HPS	1480	638	944	522	15.70	654	15.31	0.39
	Dehar HPS	990	164	495	0	4.12	172	3.93	0.19
	Pong HPS	396	256	366	186	6.38	266	6.15	0.23
	Sub Total (F)	2866	1058	1805	708	26.20	1092	25.39	0.81
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	0	0	0.29	12	0.26	0.04
	KWHEP HPS(IPP)	1000	0	400	0	4.67	194	4.45	0.21
	Malana Stg-II HPS	100	0	0	0	0.00	0	0.00	0.00
	Shree Cement TPS	150	0	0	0	0.00	0	0.00	0.00
	Sub Total (G)	1442	0	400	0	4.96	207	4.71	0.25
H. Total Regional Entities (A-G)		21225	13867	15034	9386	264.21	11009	265.22	-1.01

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	1060	1060	23.48	979	
	Guru Nanak Dev TPS(Bhatinda)	440	215	215	4.62	193	
	Guru Hargobind Singh TPS(L.mbt)	920	965	964	21.38	891	
	Thermal (Total)	2620	2240	2239	49.48	2062	
	Total Hydro	1148	382	378	10.59	441	
	Total Punjab	3768	2622	2617	60.07	2503	
Haryana	Panipat TPS	1360	1079	1052	25.13	1047	
	DCRTPP (Yamuna nagar)	600	275	289	6.69	279	
	Faridabad GPS (NTPC)	432	444	436	10.10	421	
	RGTPP (khedar) (IPP)	1200	522	516	13.28	553	
	Magnum Diesel (IPP)	25	0	0	0.00	0	
	Thermal (Total)	3617	2320	2293	55.20	2300	
	Total Hydro	62	14	28	0.71	30	
		Total Haryana	3679	2334	2321	55.91	2330
Rajasthan	kota TPS	1240	1175	1175	27.71	1154	
	suratgarh TPS	1500	943	1156	26.42	1101	
	Chabra TPS	500	383	405	8.03	335	
	Dholpur GPS	330	195	163	4.49	187	
	Ramgarh GPS	113	65	65	1.69	70	
	RAPS A (NPC)	300	175	176	4.48	187	
	Barsingar (NLC)	250	0	0	0.00	0	
	Giral LTPS (IPP)	250	0	103	1.36	57	
	Rajwest LTPS (IPP)	540	232	230	5.37	224	
	VSLP LTPS (IPP)	135	0	0	0.00	0	
	Thermal (Total)	5158	3168	3473	79.54	3314	
	Total Hydro	550	195	138	4.63	193	
	Wind power	1294	14	0	0.14	6	
	Biomass	71	26	26	0.72	30	
	Solar	50	0	0	0.00	0	
	Renewable/Others (Total)	1365	40	26	5.49	229	
		Total Rajasthan	7073	3403	3637	89.66	3736
UP	Anpara TPS	1630	1574	1534	33.00	1375	
	Obra TPS	1442	677	512	12.80	533	
	Paricha TPS	640	225	392	7.30	304	
	Panki TPS	210	80	145	2.30	96	
	Harduaganj TPS	415	0	44	0.60	25	
	Tanda TPS (NTPC)	440	402	315	9.56	398	
	Roza TPS (IPP)	600	401	394	2.63	110	
	Anpara-C (IPP)	1200	540	542	12.88	537	
	Bajaj Energy Pvt.Ltd(IPP) TPS	180	60	41	1.34	56	
	Thermal (Total)	6757	3959	3919	82.41	3434	
	Vishnuparyag HPS (IPP)	400	119	109	2.63	110	
	Other Hydro	527	88	23	2.27	95	
	Cogeneration	951	600	600	14.40	600	
		Total UP	8635	4766	4651	101.71	4128
	Uttarakhand	Total Hydro	1303	318	268	7.07	295
Total Uttarakhand		1303	318	268	7.07	295	
Delhi	Rajghat TPS	135	96	95	2.56	107	
	Delhi Gas Turbine	282	156	149	3.83	160	
	Praagati Gas Turbine	330	312	289	7.47	311	
	Rithala GPS	108	0	0	0.00	0	
	Bawana GPS	440	0	0	0.00	0	
	Badarpur TPS (NTPC)	705	495	410	10.37	432	
	Thermal (Total)	2000	1059	943	24.23	1009	
	Total Delhi	2000	1059	943	24.23	1009	
HP	Baspa HPS (IPP)	330	0	0	1.17	49	
	Malana HPS (IPP)	101	34	0	0.27	11	
	Other Hydro	571	165	92	3.51	146	
	Total HP	1002	199	92	5	207	
J & K	Baglihar HPS (IPP)	450	238	124	4.13	172	
	Other Hydro	323	54	100	1.43	60	
	Gas/Diesel/Others	183	0	0	0.00	0	
		Total J & K	956	292	224	5.56	231
Total State Control Area Generation		28416	14993	14753	349.16	14439	
J. Net Inter Regional Exchange (Import (+ve)/Export (-ve))			1132	1143	38.28	1595	
Total Regional Availability(Gross)		49641	31159	25282	651.65	27042	

IV. Total Hydro Generation:

Regional Entities Hydro	10083	5677	891	59.69	2487
State Control Area Hydro	5365	1488	1151	35.78	1491
Total Regional Hydro	15447	7165	2042	95.47	3978

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	0	-200	0	300	0.00	3.55	-3.55
Gwalior-Agra (D/C)	71	411	882	0	10.49	0.00	10.49
Zerda-Kankroli	-29	-59	89	128	0.00	1.00	-1.00
Zerda-Bhinmal	82	-58	18	275	0.00	1.94	-1.94
Malanpur-Auraiya	-165	-109	0	178	0.00	3.73	-3.73
Badod-Kota/Morak	-23	-66	23	94	0.00	0.81	-0.81
Sub Total WR	-64	-81			10.49	11.02	-0.53
Pusauli Bypass	300	300	300	0	7.21	0.00	7.21
MZP- GKP (D/C)	284	301	940	0	12.84	0.00	12.84
Patna-Balia(D/C)	183	132	419	0	4.19	0.00	4.19
B'Sharif-Balia (D/C)	92	271	598	0	7.71	0.00	7.71
Barh - balia(D/C)	219	197	407	0	4.96	0.00	4.96
Pusauli-Sahupuri	150	59	157	0	2.36	0.00	2.36
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-32	-36	0	48	0.00	0.46	-0.46
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sub Total ER	1196	1224			39.27	0.46	38.81
Total IR Exch	1132	1143			49.75	11.47	38.28

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
17.60	0.67	18.27	15.20	7.20	0.57	-2.92	2.90	-2.90

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
36.95	-4.19	32.76	38.81	-0.53	38.28	1.86	3.66	5.52

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	1.80	22.40	97.80	77.20	17.50	0.40

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)		
50.25	14.05	49.40	17.23	49.84	0.53	0.17	50.23	49.64

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	408	04:15	401	15:09	0.0	0.0	0.0	0.0
Gorakhpur	400	429	08:05	343	08:57	0.3	0.3	48.3	0.0
Bareilly	400	424	21:28	399	11:47	0.0	0.0	9.1	0.0
Kanpur	400	419	04:04	397	11:49	0.0	0.0	0.0	0.0
Dadri	400	418	21:25	401	10:31	0.0	0.0	0.0	0.0
Ballabgarh	400	421	04:02	400	11:45	0.0	0.0	0.7	0.0
Bawana	400	421	03:27	402	11:47	0.0	0.0	1.5	0.0
Bassi	400	423	04:02	387	11:21	0.0	0.6	5.6	0.0
Hissar	400	412	20:00	392	12:17	0.0	0.0	0.0	0.0
Moga	400	419	03:47	401	12:06	0.0	0.0	0.0	0.0
Abdullapur	400	421	20:16	404	11:47	0.0	0.0	1.6	0.0
Nalagarh	400	428	20:16	412	06:26	0.0	0.0	37.7	0.0
Kishenpur	400	415	05:18	389	15:18	0.0	0.1	0.0	0.0
Wagoora	400	391	05:17	362	12:07	79.8	98.6	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	505.45	1325.82	507.30	1411.35	217.13	424.64
Pong	426.72	384.05	415.96	718.14	418.85	834.82	63.88	383.78
Tehri	829.79	740.04	813.86	882.15	818.65	982.26	71.65	187.00
Koteshwar	612.50	598.50	605.95	3.10	NA	NA	141.00	152.00
Chamera-I	760.00	748.75	747.99	NA	747.07	NA	48.55	NA
Rihand	268.22	252.98	264.20	558.40	257.62	184.40	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	515.44	NA	518.08	NA	16.00	178.34

* NA: Not Available

IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

XI. Weather Conditions For 11.12.2011 :

1. NOMAL 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 : 11.12.2011

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER