

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 08.12.2011
Date of Reporting : 09.12.2011

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
29610	3137	32747	49.83	23934	1313.5	25248	49.90	632.7	63.71

* 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	49.32	11.07		60.40	27.14	24.09	-3.05	84.48	7.18
Haryana	52.39	0.73		53.12	27.71	29.92	2.21	83.05	14.31
Rajasthan	81.46	4.67	12.68	98.81	51.63	55.59	3.96	154.40	8.23
Delhi	24.55			24.55	36.04	29.52	-6.52	54.07	0.32
UP	75.41	6.74	14.40	96.55	82.31	76.36	-5.95	172.90	30.88
Uttarakhand		8.61		8.61	14.57	17.89	3.32	26.49	0.72
HP		5.21		5.21	16.95	16.72	-0.24	21.92	0.18
J & K		5.85	0.00	5.85	23.60	26.17	2.57	32.02	1.90
Chandigarh				0.00	3.36	3.36	0.00	3.36	0.00
Total	283.12	42.88	27.08	353.08	283.32	279.61	-3.71	632.69	63.71

* 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	4089	600	-243	-403	2938	0	-279	-753	-10.25	
Haryana	3879	1060	99	-51	2954	414	148	-67	-1.54	
Rajasthan	6405	28	367	431	6470	0	346	546	14.72	
Delhi	3006	2	132	-207	1445	0	-459	-753	-9.46	
UP	8104	1265	-442	267	7188	900	488	267	6.41	
Uttarakhand	1422	80	77	332	902	0	85	332	7.97	
HP	1188	2	-161	78	697	0	41	237	4.39	
J&K	1329	100	-349	203	1251	0	207	247	5.73	
Chandigarh	188	0	-5	0	89	0	-2	-30	-0.24	
Total	29610	3137	-525	650	23934	1313.5	576	25	17.73	

* 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	Off Peak MW	Energy	Average	Schedule	UI
				(Gross)	(Gross)	(Net MU)	Sentout(MW)	Net MU	Net MU
A. NTPC	Singrauli STPS	2000	1927	2061	2059	46.48	1937	46.25	0.24
	Rihand I STPS	1000	830	906	900	20.08	837	19.92	0.16
	Rihand II STPS	1000	977	1039	1044	23.62	984	23.45	0.17
	Dadri I STPS	840	585	641	482	13.86	577	13.72	0.13
	Dadri II STPS	980	686	492	978	16.61	692	16.46	0.15
	Uncharhar I TPS	440	359	438	357	8.67	361	8.61	0.06
	Uncharhar II TPS	440	359	440	395	8.68	362	8.61	0.08
	Uncharhar III TPS	210	177	219	164	4.89	204	4.25	0.64
	ISTPP (Jhajjar)	1000	475	495	504	11.34	473	11.28	0.06
	Dadri GPS	830	806	764	607	17.66	736	17.51	0.15
	Anta GPS	419	272	264	224	6.22	259	5.93	0.28
	Auraiya GPS	663	639	627	545	14.52	605	13.65	0.87
	Sub Total (A)	9822	8091	8386	8259	192.62	8026	189.62	3.00
B. NPC	NAPS	440	200	237	245	4.77	199	4.80	-0.03
	RAPS- B	440	409	456	459	9.90	413	9.82	0.09
	RAPS- C	440	420	467	469	10.07	420	10.08	-0.01
	Sub Total (B)	1320	1029	1160	1173	24.74	1031	24.70	0.05
C. NHPC	Chamera I HPS	540	0	0	0	0.00	0	0.00	0.00
	Chamera II HPS	300	297	292	0	1.32	55	1.29	0.03
	Bairasuil HPS	180	120	80	0	0.52	22	0.50	0.02
	Salal-HPS	690	135	228	112	3.21	134	2.87	0.34
	Tanakpur-HPS	94	35	46	33	0.89	37	0.87	0.02
	Uri-HPS	480	105	215	45	1.36	57	2.99	-1.64
	Dhauliganga-HPS	280	277	210	0	1.36	57	1.31	0.05
	Dulhasti-HPS	390	388	398	0	2.90	121	2.78	0.12
	Sewa-II HPS	120	0	0	0	0.00	0	0.00	0.00
	Sub Total (C)	3074	1356	1469	190	11.55	481	12.61	-1.06
D. NJPC	Nathpa Jhakri	1500	1267	1334	0	8.48	354	8.22	0.26
	Sub Total (D)	1500	1267	1334	0	8.48	354	8.22	0.26
E. THDC	Tehri HPS	1000	823	1003	0	6.33	264	6.25	0.08
	Koteshwar HPS	200	115	204	0	2.30	96	2.15	0.15
	Sub Total (E)	1200	938	1207	0	8.63	360	8.40	0.23
F. BBMB	Bhakra HPS	1480	675	945	523	17.06	711	16.21	0.85
	Dehar HPS	990	159	495	0	4.06	169	3.82	0.24
	Pong HPS	396	283	366	186	7.14	298	6.79	0.36
	Sub Total (F)	2866	1117	1806	709	28.26	1178	26.82	1.44
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	49	0	0.35	14	0.30	0.05
	KWHEP HPS(IPP)	1000	0	465	0	4.98	207	4.92	0.06
	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	514	0	5.33	222	5.22	0.10
H. Total Regional Entities (A-G)	21225	13798	15876	10331	279.62	11651	275.59	4.03	

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	1050	23.70	987	
	Guru Nanak Dev TPS(Bhatinda)	440	215	213	4.55	190	
	Guru Hargobind Singh TPS(L.mbt)	920	952	951	21.07	878	
	Thermal (Total)	2620	2217	2214	49.32	2055	
	Total Hydro	1148	416	276	11.07	461	
	Total Punjab	3768	2633	2490	60.40	2516	
Haryana	Panipat TPS	1360	1093	1118	26.70	1113	
	DCRTPP (Yamuna nagar)	600	275	271	6.59	275	
	Faridabad GPS (NTPC)	432	438	419	10.01	417	
	RGTPP (khedar) (IPP)	1200	428	0	9.08	378	
	Magnum Diesel (IPP)	25	0	0	0.00	0	
	Thermal (Total)	3617	2234	1808	52.39	2183	
	Total Hydro	62	18	25	0.73	31	
		Total Haryana	3679	2252	1833	53.12	2214
Rajasthan	kota TPS	1240	983	984	23.71	988	
	suratgarh TPS	1500	1146	1150	27.57	1149	
	Chabra TPS	500	425	207	7.37	307	
	Dholpur GPS	330	215	253	5.57	232	
	Ramgarh GPS	113	65	65	1.55	65	
	RAPS A (NPC)	300	176	179	4.25	177	
	Barsingar (NLC)	250	32	20	0.62	26	
	Giral LTPS (IPP)	250	107	105	2.28	95	
	Rajwest LTPS (IPP)	540	352	355	8.52	355	
	VSLP LTPS (IPP)	135	0	0	0.00	0	
	Thermal (Total)	5158	3501	3318	81.46	3394	
	Total Hydro	550	178	178	4.67	195	
	Wind power	1294	315	297	6.90	287	
	Biomass	71	47	47	1.12	47	
	Solar	50	0	0	0.00	0	
	Renewable/Others (Total)	1365	362	344	12.68	528	
		Total Rajasthan	7073	4041	3840	98.81	4117
UP	Anpara TPS	1630	1259	971	26.70	1113	
	Obra TPS	1442	426	510	10.50	438	
	Paricha TPS	640	337	347	8.20	342	
	Panki TPS	210	95	81	2.40	100	
	Harduaganj TPS	415	38	38	0.90	38	
	Tanda TPS (NTPC)	440	403	402	9.84	410	
	Roza TPS (IPP)	600	487	284	9.26	386	
	Anpara-C (IPP)	1200	270	162	5.79	241	
	Bajaj Energy Pvt.Ltd(IPP) TPS	180	79	66	1.81	76	
	Thermal (Total)	6757	3394	2861	75.41	3142	
	Vishnuparyag HPS (IPP)	400	118	119	2.70	113	
	Other Hydro	527	269	40	4.04	168	
	Cogeneration	951	600	600	14.40	600	
		Total UP	8635	4381	3620	96.55	3910
	Uttarakhand	Total Hydro	1303	518	262	8.61	359
Total Uttarakhand		1303	518	262	8.61	359	
Delhi	Rajghat TPS	135	96	92	2.23	93	
	Delhi Gas Turbine	282	196	198	4.60	192	
	Praagati Gas Turbine	330	302	266	7.08	295	
	Rithala GPS	108	0	0	0.00	0	
	Bawana GPS	440	0	0	0.00	0	
	Badarpur TPS (NTPC)	705	495	465	10.64	443	
	Thermal (Total)	2000	1089	1021	24.55	1023	
	Total Delhi	2000	1089	1021	24.55	1023	
HP	Baspa HPS (IPP)	330	0	29	1.27	53	
	Malana HPS (IPP)	101	31	0	0.28	12	
	Other Hydro	571	199	115	3.65	152	
	Total HP	1002	230	144	5	217	
J & K	Baglihar HPS (IPP)	450	294	148	4.42	184	
	Other Hydro	323	54	100	1.43	60	
	Gas/Diesel/Others	183	0	0	0.00	0	
		Total J & K	956	348	248	5.85	244
Total State Control Area Generation		28416	15492	13458	353.08	14599	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			676	838	34.05	1419	
Total Regional Availability(Gross)		49641	32044	24627	666.75	27669	

IV. Total Hydro Generation:

Regional Entities Hydro	10083	6330	899	62.25	2594
State Control Area Hydro	5365	1977	1173	40.18	1674
Total Regional Hydro	15447	8307	2072	102.43	4268

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	-300	-400	0	500	0.00	9.31	-9.31
Gwalior-Agra (D/C)	378	445	1094	0	15.61	0.00	15.61
Zerda-Kankroli	-173	-114	23	173	0.00	1.86	-1.86
Zerda-Bhinmal	-93	-33	176	126	0.00	0.29	-0.29
Malanpur-Auraiya	-195	-205	0	222	0.00	3.50	-3.50
Badod-Kota/Morak	-66	-75	17	92	0.00	1.10	-1.10
Sub Total WR	-449	-382			15.61	16.06	-0.45
Pusauli Bypass	300	250	300	0	7.10	0.00	7.10
MZP- GKP (D/C)	359	246	532	0	9.19	0.00	9.19
Patna-Balia(D/C)	62	164	200	0	3.08	0.00	3.08
B'Sharif-Balia (D/C)	288	366	724	0	9.76	0.00	9.76
Barh - balia(D/C)	148	230	289	0	5.33	0.00	5.33
Pusauli-Sahupuri	0	0	120	0	0.50	0.00	0.50
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	1125	1220			34.96	0.46	34.50
Total IR Exch	676	838			50.57	16.52	34.05

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
18.59	0.57	19.16	11.34	7.92	-2.33	-1.75	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
31.07	-2.28	28.78	34.50	-0.45	34.05	3.43	1.83	5.27

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	1.70	8.70	33.40	70.90	66.50	29.00	2.20	0.10

←----- 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)		
50.20	18.02	48.86	8.13	49.57	2.37	0.23	50.15	49.11

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	405	19:56	396	13:57	0.0	0.0	0.0	0.0
Gorakhpur	400	431	19:56	410	06:46	0.0	0.0	65.3	0.1
Bareilly	400	424	00:04	396	14:53	0.0	0.0	9.0	0.0
Kanpur	400	417	00:03	398	09:38	0.0	0.0	0.0	0.0
Dadri	400	419	03:08	396	14:18	0.0	0.0	0.0	0.0
Ballabgarh	400	421	03:06	397	14:15	0.0	0.0	1.3	0.0
Bawana	400	423	03:07	400	10:41	0.0	0.0	5.6	0.0
Bassi	400	416	04:04	391	22:13	0.0	0.0	0.0	0.0
Hissar	400	413	03:08	392	10:43	0.0	0.0	0.0	0.0
Moga	400	420	03:07	394	08:20	0.0	0.0	0.0	0.0
Abdullapur	400	421	20:56	397	18:34	0.0	0.0	0.7	0.0
Nalagarh	400	426	20:58	403	11:11	0.0	0.0	16.7	0.0
Kishenpur	400	420	23:49	385	08:20	0.0	1.8	0.0	0.0
Wagoora	400	405	23:58	357	08:20	57.5	93.4	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	505.83	1352.81	507.85	1440.82	233.81	466.60
Pong	426.72	384.05	416.37	730.66	419.24	848.35	58.47	423.02
Tehri	829.79	740.04	814.46	740.06	818.65	982.26	70.82	144.00
Koteswar	612.50	598.50	605.95	3.10	NA	NA	141.00	152.00
Chamera-I	760.00	748.75	NA	NA	NA	NA	38.55	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	515.90	NA	517.33	NA	16.00	178.34

* NA: Not Available

IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

XI. Weather Conditions For 08.12.2011 :

Scattered rains in J&K and Punjab.

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 : 08.12.2011

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER