

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 20.11.2011
Date of Reporting : 21.11.2011

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
28678	2156	30834	49.92	24484	942	25425.7039	49.88	627.3	36.17

* 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	47.23	9.13		56.36	24.93	23.56	-1.37	79.92	4.30
Haryana	62.05	0.79		62.83	26.62	23.49	-3.13	86.32	1.06
Rajasthan	85.21	5.99	1.48	92.68	48.02	55.71	7.69	148.39	10.33
Delhi	22.76			22.76	40.41	30.69	-9.72	53.46	0.07
UP	86.81	5.56	6.00	98.37	90.13	77.81	-12.31	176.18	18.69
Uttarakhand		9.19		9.19	17.52	17.08	-0.43	26.28	0.00
HP		6.23		6.23	14.96	14.84	-0.12	21.07	0.23
J & K		6.41	0.00	6.41	20.97	26.16	5.20	32.57	1.50
Chandigarh				0.00	3.35	3.10	-0.26	3.10	0.00
Total	304.06	43.30	7.48	354.84	286.90	272.45	-14.45	627.29	36.17

* 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	3778	600	-164	-564	2973	0	-306	-737	-12.71
Haryana	4070	271	14	-88	3078	0	-315	-104	-2.49
Rajasthan	6435	240	316	301	6782	42	1184	426	11.68
Delhi	2747	0	-497	-230	1462	0	-954	-495	-7.59
UP	7554	1000	-647	391	7171	900	-352	391	9.39
Uttarakhand	1301	0	-94	316	937	0	15	316	7.58
HP	1054	45	-205	-318	726	0	204	4	-2.84
J&K	1572	0	21	79	1268	0	278	158	2.96
Chandigarh	167	0	-33	0	87	0	-3	-30	-0.24
Total	28678	2156	-1289	-112	24484	942	-249	-71	5.74

* 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	1915	2060	2064	46.57	1940	45.96	0.61
	Rihand I STPS	1000	794	995	746	19.24	802	19.06	0.19
	Rihand II STPS	1000	977	941	1039	23.45	977	23.45	0.00
	Dadri I STPS	840	585	638	634	13.75	573	13.69	0.06
	Dadri II STPS	980	922	1000	968	21.91	913	21.61	0.30
	Unchahar I TPS	440	400	437	430	9.67	403	9.60	0.07
	Unchahar II TPS	440	402	437	440	9.72	405	9.65	0.07
	Unchahar III TPS	210	201	224	220	4.86	203	4.82	0.04
	ISTPP (Jhajihar)	1000	475	471	508	11.32	472	11.24	0.09
	Dadri GPS	830	593	527	590	12.38	516	13.04	-0.66
	Anta GPS	419	403	316	406	8.68	362	8.55	0.13
	Auraiya GPS	663	628	449	533	12.30	513	13.03	-0.73
	Sub Total (A)	9822	8295	8495	8578	193.86	8078	193.70	0.16
B. NPC	NAPS	440	202	235	239	4.86	202	4.85	0.01
	RAPS- B	440	197	223	223	4.85	202	4.73	0.12
	RAPS- C	440	420	475	475	10.45	435	10.08	0.37
	Sub Total (B)	1320	819	933	937	20.15	840	19.66	0.50
C. NHPC	Chamera I HPS	540	534	360	0	3.15	131	3.20	-0.05
	Chamera II HPS	300	297	263	0	1.59	66	1.83	-0.24
	Bairasuil HPS	180	179	10	0	0.62	26	0.67	-0.05
	Salal-HPS	690	149	240	210	3.52	147	3.51	0.01
	Tanakpur-HPS	94	44	30	40	1.08	45	1.06	0.01
	Uri-HPS	480	163	240	101	3.53	147	3.63	-0.10
	Dhauliganga-HPS	280	277	271	0	1.35	56	1.29	0.07
	Dulhasti-HPS	390	388	343	0	3.86	161	4.02	-0.16
	Sewa-II HPS	120	0	0	0	0.00	0	0.00	0.00
	Sub Total (C)	3074	2031	1757	351	18.70	779	19.21	-0.51
D. NJPC	Nathpa Jhakri	1500	1538	1358	0	9.06	377	9.00	0.06
	Sub Total (D)	1500	1538	1358	0	9.06	377	9.00	0.06
E. THDC	Tehri HPS	1000	693	252	0	4.28	179	4.25	0.03
	Koteshwar HPS	200	53	87	71	1.27	53	1.25	0.02
	Sub Total (E)	1200	746	339	71	5.55	231	5.50	0.05
F. BBMB	Bhakra HPS	1480	627	995	417	15.45	644	15.05	0.40
	Dehar HPS	990	194	495	0	4.40	183	4.65	-0.24
	Pong HPS	396	230	306	186	5.70	238	5.53	0.17
	Sub Total (F)	2866	1051	1796	603	25.55	1065	25.23	0.32
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	0	0	0.45	19	0.44	0.01
	KWHEP HPS(IPP)	1000	0	275	125	4.57	190	5.19	-0.62
	Malana Stg-II HPS	100	0	0	0	0.00	0	0.00	0.00
	Shree Cement TPS	150	0	133	131	3.10	129	2.59	0.51
	Sub Total (G)	1442	0	408	256	8.12	338	8.21	-0.09
H. Total Regional Entities (A-G)		21225	14480	15086	10796	280.99	11708	280.51	0.48

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	23.42	976	
	Guru Nanak Dev TPS(Bhatinda)	440	210.00	210.00	4.52	188	
	Guru Hargobind Singh TPS(L.mbt)	920	909.00	911.00	19.28	804	
	Thermal (Total)	2620	2164.00	2166.00	47.23	1968	
	Total Hydro	1148	261.00	261.00	9.13	381	
	Total Punjab	3768	2425	2427	56.36	2348	
Haryana	Panipat TPS	1360	1080.00	1110.00	26.97	1124	
	DCRTPP (Yamuna nagar)	600	266.00	272.00	6.60	275	
	Faridabad GPS (NTPC)	432	407.00	323.00	9.01	375	
	RGTPP (khedar) (IPP)	1200	741.00	762.00	19.47	811	
	Magnum Diesel (IPP)	25	0.00	0.00	0.00	0	
	Thermal (Total)	3617	2494.00	2467.00	62.05	2585	
	Total Hydro	62	40.00	28.00	0.79	33	
		Total Haryana	3679	2534	2495	62.83	2618
Rajasthan	kota TPS	1240	1162.00	1177.00	27.33	1139	
	suratgarh TPS	1500	1154.00	1136.00	27.07	1128	
	Chabra TPS	500	343.00	320.00	8.89	371	
	Dholpur GPS	330	278.00	274.00	6.79	283	
	Ramgarh GPS	113	65.00	65.00	1.65	69	
	RAPS A (NPC)	300	174.00	175.00	4.24	177	
	Barsingsar (NLC)	250	40.00	48.00	1.08	45	
	Giral LTPS (IPP)	250	0.00	0.00	0.00	0	
	Rajwst LTPS (IPP)	540	338.00	320.00	8.16	340	
	VSLP LTPS (IPP)	135	0.00	0.00	0.00	0	
	Thermal (Total)	5158	3554.00	3515.00	85.21	3550	
	Total Hydro	550	248.00	202.00	5.99	249	
	Wind power	1294	28.00	0.00	0.50	21	
	Biomass	71	45.00	45.00	0.98	41	
	Solar	50	0.00	0.00	0.00	0	
	Renewable/Others (Total)	1365	73	45	1.48	62	
		Total Rajasthan	7073	3875	3762	92.68	3862
	UP	Anpara TPS	1630	1478	1349	31.40	1308
Obra TPS		1442	650	650	14.10	588	
Paricha TPS		640	390	384	8.50	354	
Panki TPS		210	170	150	8.40	350	
Harduaganj TPS		415	0	0	0.00	0	
Tanda TPS (NTPC)		440	399	402	9.71	404	
Roza TPS (IPP)		600	567	567	13.40	558	
Anpara-C (IPP)		1200	0	0	0.00	0	
Bajaj Energy Pvt.Ltd(IPP) TPS		180	80	18	1.30	54	
Thermal (Total)		6757	3734	3520	86.81	3617	
Vishnuparyag HPS (IPP)		400	143	134	3.23	135	
Other Hydro		527	88	0	2.33	97	
Cogeneration		951	250	250	6.00	250	
		Total UP	8635	4215	3904	98.37	3964
Uttarakhand		Total Hydro	1303	466	242	9.19	383
	Total Uttarakhand	1303	466	242	9.19	383	
Delhi	Rajghat TPS	135	42	46	1.21	50	
	Delhi Gas Turbine	282	193	191	3.96	165	
	Pragati Gas Turbine	330	304	313	7.39	308	
	Rithala GPS	108	22	29	0.56	23	
	Bawana GPS	440	0	0	0.00	0	
	Badarpur TPS (NTPC)	705	398	495	9.65	402	
	Thermal (Total)	2000	959	1074	22.76	949	
	Total Delhi	2000	959	1074	22.76	949	
HP	Baspa HPS (IPP)	330	0	0	1.50	63	
	Malana HPS (IPP)	101	0	0	0.37	15	
	Other Hydro	571	254	106	4.36	182	
	Total HP	1002	254	106	6	260	
J & K	Baglihar HPS (IPP)	450	293	146	4.68	195	
	Other Hydro	323	54	100	1.73	72	
	Gas/Diesel/Others	183	0	0	0.00	0	
	Total J & K	956	347	246	6.41	267	
Total State Control Area Generation		28416	15075	14256	354.84	14650	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			134	837	11.70	487	
Total Regional Availability(Gross)		49641	30295	25889	647.53	26846	

IV. Total Hydro Generation:

Regional Entities Hydro	10083	5658	1281	66.98	2791
State Control Area Hydro	5365	1704	1085	40.07	1670
Total Regional Hydro	15447	7362	2366	107.05	4460

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	-500	-300	0	500	0.00	9.94	-9.94
Gwalior-Agra (D/C)	42	70	429	341	1.96	0.00	1.96
Zerda-Kankroli	-182	-148	0	312	0.00	4.74	-4.74
Zerda-Bhinmal	-53	11	92	234	0.00	1.51	-1.51
Malanpur-Auraiya	-141	-184	0	343	0.00	5.65	-5.65
Badod-Kota/Morak	-76	-91	0	150	0.00	2.18	-2.18
Sub Total WR	-910	-642			1.96	24.02	-22.06
Pusauli Bypass	-34	72	362	126	2.59	0.31	2.29
MZP- GKP (D/C)	508	642	882	0	14.43	0.00	14.43
Patna-Balia(D/C)	265	387	489	0	7.84	0.00	7.84
B'Sharif-Balia (D/C)	234	283	394	0	7.35	0.00	7.35
Barh - balia(D/C)	0	0	0	0	0.00	0.00	0.00
Pusauli-Sahupuri	106	135	152	0	2.73	0.00	2.73
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	1044	1479			34.94	1.18	33.76
Total IR Exch	134	837			36.90	25.20	11.70

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
22.96	0.98	23.94	8.35	-1.22	-2.71	-1.22	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
29.58	-8.18	21.40	33.76	-22.06	11.70	4.18	-13.88	-9.70

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	8.50	43.40	91.40	56.80	3.10	0.30

<----- 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				
50.32	8.04	49.33	18.10	49.72	1.02	0.16	50.14	49.57

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	04:08	399	10:53	0.0	0.0	0.0	0.0
Gorakhpur	400	437	08:05	411	01:12	0.0	0.0	78.1	8.9
Bareilly	400	423	04:11	399	10:11	0.0	0.0	9.5	0.0
Kanpur	400	419	04:07	399	10:08	0.0	0.0	0.0	0.0
Dadri	400	419	04:01	398	10:48	0.0	0.0	0.0	0.0
Ballabgarh	400	423	04:02	399	10:33	0.0	0.0	7.1	0.0
Bawana	400	423	04:00	402	10:33	0.0	0.0	11.3	0.0
Bassi	400	423	20:53	393	10:10	0.0	0.0	3.3	0.0
Hissar	400	415	04:00	399	10:48	0.0	0.0	0.0	0.0
Moga	400	421	04:02	403	10:05	0.0	0.0	0.1	0.0
Abdullapur	400	426	04:01	404	12:55	0.0	0.0	20.5	0.0
Nalagarh	400	0	00:00	9999	00:00	0.0	0.0	0.0	0.0
Kishenpur	400	412	04:01	391	06:31	0.0	0.0	0.0	0.0
Wagoora	400	400	04:02	370	18:47	35.0	76.7	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	508.43	1470.42	510.26	1560.04	204.84	397.71
Pong	426.72	384.05	418.50	821.34	421.22	946.20	58.53	332.75
Tehri	829.79	740.04	817.15	942.25	NA	NA	75.15	96.00
Koteshwar	612.50	598.50	600.00	0.98	NA	NA	190.00	95.00
Chamera-I	760.00	748.75	754.86	NA	754.25	NA	86.14	86.97
Rihand	268.22	252.98	NA	NA	257.74	289.70	NA	NA
RPS	352.80	343.81	350.67	NA	349.00	NA	NA	252.19
Jawahar Sagar	298.70	295.78	297.57	NA	297.88	NA	NA	222.85
RSD	527.91	487.91	519.77	NA	520.43	NA	99.11	158.21

IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

XI. Weather Conditions For 20.11.2011 :

1. Fog reported at Meerut , Abdulapur, Mandola, Bareilly & 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 : 20.11.2011

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER