

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरसिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 19.11.2012

Date of Reporting : 20.11.2012

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
31310	2902	34212	50.34	25806	870	26676	50.46	679.2	48.92

* 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)	UI [OD:(+ve), UD: (-ve)]	
	Thermal	Hydro	Renewable/others \$	Total				Consumption (Net MU)	Shortages *
Punjab	43.70	10.69		54.39	29.90	29.89	-0.01	84.28	1.80
Haryana	39.67	0.61		40.28	49.41	50.94	1.53	91.22	4.47
Rajasthan	90.93	4.86	6.21	102.00	58.62	57.04	-1.58	159.04	0.42
Delhi	29.77			29.77	27.06	24.77	-2.29	54.54	0.04
UP	117.32	6.12	1.68	125.12	80.02	79.15	-0.88	204.27	36.50
Uttarakhand		8.21		8.21	16.37	16.10	-0.26	24.32	3.77
HP		5.94		5.94	15.63	16.54	0.91	22.48	0.22
J & K		7.51	0.00	7.51	26.53	28.23	1.70	35.74	1.70
Chandigarh				0.00	3.34	3.29	-0.05	3.29	0.00
Total	321.38	43.95	7.89	373.21	306.87	305.94	-0.93	679.16	48.92

* 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	
Punjab	4376	600	-141	-413	2868	0	-24	-93	-3.67	
Haryana	4394	699	93	145	3225	0	-14	225	4.71	
Rajasthan	6907	0	13	296	6526	0	-251	686	15.68	
Delhi	2803	13	-104	-1362	1246	0	-94	-1662	-36.99	
UP	8769	1400	-78	-56	8846	750	-39	345	3.87	
Uttarakhand	1270	90	-165	375	821	120	-28	359	8.10	
HP	1171	0	31	21	727	0	125	218	3.61	
J&K	1438	100	-490	411	1457	0	47	439	8.67	
Chandigarh	183	0	-3	-10	91	0	1	-31	-0.35	
Total	31310	2902	-845	-595	25806	870	-277	486	3.64	

* STOA figures are at sellers boundary & PX figures are at regional boundary.

III. Regional Entities :

Station/ Constituent	Inst. Capacity (Effective) MW	Declared Capacity(MW)	Peak MW (Gross)	Off Peak MW (Gross)	Energy (Net MU)	Average Sentout(MW)	UI [OG:(+ve), UI: (-ve)]	
							Schedule Net MU	UI Net MU
A. NTPC								
Singrauli STPS	2000	1945	2049	1962	46.09	1920	46.46	-0.38
Rihand I STPS	1000	460	500	468	10.86	453	11.00	-0.14
Rihand II STPS	1000	975	1025	941	22.48	937	22.89	-0.41
Rihand III STPS	500	96	0	0	0.00	0	2.32	-2.32
Dadri I STPS	840	810	836	621	17.09	712	17.51	-0.43
Dadri II STPS	980	975	1000	793	21.60	900	22.07	-0.48
Unchahar I TPS	420	402	392	319	8.45	352	8.74	-0.30
Unchahar II TPS	420	405	367	328	8.30	346	8.48	-0.18
Unchahar III TPS	210	202	198	156	4.29	179	4.38	-0.09
ISTPP (Jhajhar)	1500	470	413	334	8.82	367	9.36	-0.54
Dadri GPS	830	837	447	499	11.68	487	11.79	-0.11
Anta GPS	419	281	160	170	4.46	186	4.47	-0.01
Auraiya GPS	663	657	271	322	6.99	291	7.08	-0.09
Sub Total (A)	10782	8516	7658	6913	171.09	7129	176.55	-5.46
B. NPC								
NAPS	440	280	318	316	6.69	279	6.72	-0.03
RAPS- B	440	419	461	462	10.09	420	10.06	0.03
RAPS- C	440	430	473	473	10.14	423	10.32	-0.18
Sub Total (B)	1320	1129	1252	1251	26.92	1122	27.10	-0.17
C. NHPC								
Chamera I HPS	540	550	360	0	2.04	85	2.06	-0.02
Chamera II HPS	300	303	185	0	1.47	61	1.67	-0.20
Chamera III HPS	231	231	206	0	0.98	41	1.04	-0.06
Bairasuil HPS	180	182	20	0	0.61	25	0.65	-0.04
Salai-HPS	690	149	240	220	2.97	124	3.55	-0.58
Tanakpur-HPS	94	44	42	42	1.04	43	1.06	-0.02
Uri-HPS	480	109	206	29	2.37	99	2.23	0.14
Dhauliganga-HPS	280	288	206	0	1.17	49	1.20	-0.03
Dulhasi-HPS	390	388	349	0	3.36	140	3.58	-0.22
Sewa-II HPS	120	120	80	0	0.26	11	0.21	0.05
Sub Total (C)	3305	2365	1894	291	16.27	678	17.25	-0.98
D.NJPC								
Nathpa Jhakri	1500	1605	1206	0	8.72	363	8.60	0.12
Sub Total (D)	1500	1605	1206	0	8.72	363	8.60	0.12
E. THDC								
Tehri HPS	1000	1050	702	0	4.93	205	5.00	-0.07
Koteshwar HPS	400	270	241	0	1.38	57	1.35	0.03
Sub Total (E)	1400	1320	943	0	6.30	263	6.35	-0.05
F. BBMB								
Bhakra HPS	1480	661	1100	404	16.13	672	15.86	0.27
Dehar HPS	990	160	495	0	4.11	171	3.85	0.26
Pong HPS	396	317	366	306	7.57	315	5.01	2.56
Sub Total (F)	2866	1138	1961	710	27.81	1159	24.72	3.09
G. IPP(s)/JV(s)								
ADHPL HPS(IPP)	192	0	0	0	0.65	27	0.65	0.00
KWHEP HPS(IPP)	1000	0	200	0	4.88	203	4.97	-0.09
Malana Stg-II HPS	100	0	36	18	0.34	14	0.28	0.05
Shree Cement TPS	300	0	282	280	6.57	274	6.64	-0.08
Budhil HPS(IPP)	70	0	10	6	0.16	7	0.42	-0.26
Sub Total (G)	1662	0	528	304	12.59	525	12.96	-0.37
H. Total Regional Entities (A-G)	22836	16072	15442	9469	269.71	11238	273.52	-3.82

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	1060	26.61	1109	
	Guru Nanak Dev TPS(Bhatinda)	440	105	95	2.12	88	
	Guru Hargobind Singh TPS(L.mbt)	920	752	539	14.98	624	
	Thermal (Total)	2620	2117	1694	43.70	1821	
	Total Hydro	1148	433	435	10.69	445	
	Total Punjab	3768	2550	2129	54.39	2266	
Haryana	Panipat TPS	1367	721	551	16.14	672	
	DCRTPP (Yamuna nagar)	600	0	0	0.00	0	
	Faridabad GPS (NTPC)	432	126	109	2.45	102	
	RGTPP (khedar) (IPP)	1200	412	454	10.69	445	
	Magnum Diesel (IPP)	25	0	0	0.00	0	
	Jhajjar(CLP)	1320	626	375	10.39	433	
	Thermal (Total)	4944	1885	1489	39.67	1653	
	Total Hydro	62	24	29	0.61	26	
	Total Haryana	5006	1909	1518	40.28	1678	
Rajasthan	kota TPS	1240	1149	1059	27.09	1129	
	suratgarh TPS	1500	1266	1138	29.32	1222	
	Chabra TPS	500	450	378	9.46	394	
	Dholpur GPS	330	153	138	3.41	142	
	Ramgarh GPS	111	74	76	1.94	81	
	RAPS A (NPC)	300	172	172	4.25	177	
	Barsingsar (NLC)	250	107	105	2.46	103	
	Giral LTPS	250	63	63	1.55	65	
	Rajwest LTPS (IPP)	540	486	486	11.45	477	
	VSLP LTPS (IPP)	135	0	0	0.00	0	
	Thermal (Total)	5156	3920	3615	90.93	3789	
	Total Hydro	550	239	167	4.86	203	
	Wind power	2191	179	461	5.68	237	
	Biomass	91	16	16	0.38	16	
	Solar	201	2	0	0.15	6	
	Renewable/Others (Total)	2483	195	477	6.21	259	
	Total Rajasthan	8189	4354	4259	102.00	4250	
	UP	Anpara TPS	1630	1578	1416	34.10	1421
		Obra TPS	1382	374	356	8.40	350
Paricha TPS		890	379	428	9.90	413	
Panki TPS		210	144	126	3.30	138	
Harduaganj TPS		665	212	198	4.80	200	
Tanda TPS (NTPC)		440	299	298	7.31	304	
Roza TPS (IPP)		1200	882	1058	24.84	1035	
Anpara-C (IPP)		1200	826	827	19.96	832	
Bajaj Energy Pvt.Ltd(IPP) TPS		450	200	201	4.71	196	
Thermal (Total)		8067	4894	4908	117.32	4888	
Vishnuparyag HPS (IPP)		400	119	109	2.69	112	
Other Hydro		527	177	136	3.44	143	
Cogeneration		981	70	70	1.68	70	
Total UP		9975	5260	5223	125.12	5101	
Uttarakhand	Total Hydro	1303	446	267	8.21	342	
	Total Uttarakhand	1303	446	267	8.21	342	
Delhi	Raighat TPS	135	103	101	2.78	116	
	Delhi Gas Turbine	282	73	119	2.51	105	
	Pragati Gas Turbine	330	302	261	7.43	310	
	Rithala GPS	108	0	0	0.36	15	
	Bawana GPS	677	217	221	6.23	260	
	Badarpur TPS (NTPC)	705	505	430	10.45	435	
	Thermal (Total)	2237	1200	1132	29.77	1240	
Total Delhi	2237	1200	1132	29.77	1240		
HP	Baspa HPS (IPP)	330	30	30	1.04	43	
	Malana HPS (IPP)	86	40	17	0.36	15	
	Other Hydro	589	229	132	4.55	189	
	Total HP	1005	299	179	6	248	
J & K	Baglihar HPS (IPP)	450	298	148	4.33	180	
	Other Hydro	323	120	175	3.18	133	
	Gas/Diesel/Others	183	0	0	0.00	0	
	Total J & K	956	418	323	7.51	313	
Total State Control Area Generation		32439	16436	15030	373.21	15439	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			871	2373	45.12	1880	
Total Regional Availability(Gross)		55275	32749	26872	688.04	28556	

IV. Total Hydro Generation:

Regional Entities Hydro	10364	6240	1019	64.97	2707
State Control Area Hydro	5368	2036	1536	43.95	1719
Total Regional Hydro	15731	8276	2555	108.91	4426

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	Import	Export	
Vindhychal B/B	-200	-500	0	500	0.00	7.80	0.00	-7.80	
Gwalior-Agra (D/C)	134	487	529	0	7.66	0.00	7.66		
Zerda-Kankroli	-185	-74	0	214	0.00	3.15	-3.15		
Zerda-Bhinmal	-111	7	82	206	0.00	1.36	-1.36		
Malanpur-Auraiya	-155	-101	0	170	0.00	2.84	-2.84		
Badod-Kota/Morak	-153	-72	0	171	0.00	3.34	-3.34		
Mundra-Mohindergarh(HVDC)	847	847	848	0	20.40	0.00	20.40		
Sub Total WR	177	594			28.06	18.49	9.57		
Pusauli Bypass	150	150	250	0	3.93	0.00	3.93		
MZP- GKP (D/C)	216	539	582	0	9.45	0.00	9.45		
Patna-Balia(D/C)	273	453	479	0	10.23	0.00	10.23		
B'Sharif-Balia (D/C)	67	368	432	0	7.62	0.00	7.62		
Barh - Balia(D/C)	0	0	0	0	0.00	0.00	0.00		
Pusauli-Balia	-99	3	40	99	0.00	0.36	-0.36		
Gaya-Fatehpur (765 Kv)	-10	156	210	10	2.42	0.00	2.42		
Pusauli-Sahupuri	137	144	161	0	3.20	0.00	3.20		
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00		
Son Ngr-Rihand	-40	-34	0	46	0.00	0.95	-0.95		
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00		
Sub Total ER	694	1779			36.85	1.31	35.55		
Total IR Exch	871	2373			64.91	19.80	45.12		

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
32.65	0.50	33.15	1.92	-16.72	-0.45	8.01	1.14	-1.06
Total IR Schedule (MU)			Total IR Actual (MU)			Net IR UI (MU)		
Through ER	Through WR Inclds Mndra	Total	Through ER	Through WR	Total	Through ER	Through WR	Total
35.75	13.28	49.03	35.55	9.57	45.12	-0.21	-3.71	-3.91

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	0.00	0.10	76.50	76.40	72.60	23.50
<----- Frequency (Hz) ----->				Average Frequency	Frequency Variation Index	Std. Dev.	Frequency in 15 Min Block	
Maximum		Minimum					MAX (Hz)	MIN (Hz)
50.54	0.00	49.67	16.53	50.09	0.31	0.15	50.50	49.90

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	411	3:24	404	14:28	0.0	0.0	0.0	0.0
Gorakhpur	400	431	18:48	418	9:59	0.0	0.0	86.4	5.4
Bareilly	400	422	20:53	405	12:46	0.0	0.0	0.8	0.0
Kanpur	400	422	20:55	406	10:22	0.0	0.0	1.4	0.0
Dadri	400	426	3:26	410	9:41	0.0	0.0	38.2	0.0
Ballabhgarh	400	431	3:04	413	10:22	0.0	0.0	66.0	0.4
Bawana	400	428	3:01	412	10:15	0.0	0.0	44.2	0.0
Bassi	400	434	20:17	412	5:52	0.0	0.0	55.1	4.3
Hissar	400	420	3:01	401	9:41	0.0	0.0	0.0	0.0
Moga	400	424	2:58	405	9:16	0.0	0.0	17.8	0.0
Abdullapur	400	429	3:02	412	9:37	0.0	0.0	49.0	0.0
Nalagarh	400	431	3:02	413	9:36	0.0	0.0	69.2	0.7
Kishenpur	400	424	14:12	390	17:55	0.0	0.0	1.5	0.0
Wagoora	400	416	14:12	344	18:11	39.5	62.5	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	502.53	1205.87	508.83	1485.27	217.81	440.47
Pong	426.72	384.05	417.64	781.19	418.96	848.35	64.14	495.03
Tehri	829.79	740.04	823.30	1070.00	818.65	982.26	68.01	112.00
Koteswar	612.50	598.50	NA	NA	NA	NA	NA	NA
Chamera-I	760.00	748.75	NA	NA	NA	NA	59.88	59.00
Rihand	268.22	252.98	262.92	500.10	264.78	617.70	NA	NA
RPS	352.80	343.81	350.94	NA	NA	NA	NA	NA
Jawahar Sagar	298.70	295.78	297.64	NA	NA	NA	NA	NA
RSD	527.91	487.91	520.91	NA	519.40	NA	47.88	79.06

* NA: Not Available

IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

XI. Weather Conditions For 19.11.2012 :

Normal

XII. Synchronisation of new generating units :

0.00

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 : 19.11.2012

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER