

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरसिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 17.11.2012

Date of Reporting : 18.11.2012

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
31517	2258	33775	50.18	26730	750	27480	50.20	691.7	41.91

* 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 * (MU)
Punjab	43.49	9.19		52.68	33.32	34.43	1.12	87.11	1.80
Haryana	48.21	0.65		48.85	49.18	48.37	-0.81	97.22	1.55
Rajasthan	91.98	4.61	5.76	102.35	60.41	61.71	1.30	164.06	1.57
Delhi	28.89			28.89	28.30	24.96	-3.35	53.84	0.04
UP	111.62	5.78	1.68	119.08	83.03	78.71	-4.32	197.79	33.42
Uttarakhand		8.62		8.62	17.61	19.25	1.65	27.88	1.84
HP		6.58		6.58	15.69	16.78	1.10	23.36	0.00
J & K		9.58	0.00	9.58	26.30	27.74	1.43	37.32	1.70
Chandigarh				0.00	3.32	3.13	-0.19	3.13	0.00
Total	324.18	45.02	7.44	376.64	317.16	315.09	-2.07	691.72	41.91

* 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	4326	600	-118	-558	2927	0	160	-161	-2.66	
Haryana	4820	378	-17	126	3392	0	-143	138	3.55	
Rajasthan	6840	0	-64	381	6880	0	220	744	16.65	
Delhi	2803	0	-318	-1227	1506	0	-65	-2169	-38.13	
UP	8127	1100	-768	-65	8669	750	-124	454	5.05	
Uttarakhand	1537	80	90	403	997	0	-1	358	8.47	
HP	1115	0	-55	-7	766	0	64	197	3.67	
J&K	1768	100	-248	482	1508	0	179	389	8.14	
Chandigarh	182	0	-16	-20	85	0	-2	-31	-0.39	
Total	31517	2258	-1513	-486	26730	750	288	-83	4.36	

* 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)	Schedule Net MU	UI [OG:(+ve), UG: (-ve)]	
								UI Net MU	UI Net MU
A. NTPC									
Singrauli STPS	2000	1940	2048	2065	45.62	1901	46.56	-0.94	
Rihand I STPS	1000	460	502	510	11.10	462	11.04	0.06	
Rihand II STPS	1000	975	1011	1033	23.15	964	23.27	-0.12	
Rihand III STPS	500	0	0	0	0.00	0	0.00	0.00	
Dadri I STPS	840	810	848	654	17.75	739	18.05	-0.31	
Dadri II STPS	980	975	971	1013	22.91	955	23.38	-0.48	
Unchahar I TPS	420	402	430	383	8.93	372	9.08	-0.15	
Unchahar II TPS	420	405	424	342	8.67	361	8.72	-0.05	
Unchahar III TPS	210	202	211	183	4.49	187	4.53	-0.03	
ISTPP (Jhajhar)	1500	609	468	330	14.60	608	13.01	1.59	
Dadri GPS	830	835	560	548	13.51	563	13.59	-0.08	
Anta GPS	419	411	263	197	5.75	240	5.73	0.02	
Auraiya GPS	663	657	311	261	7.01	292	7.05	-0.04	
Sub Total (A)	10782	8680	8047	7519	183.49	7645	184.00	-0.51	
B. NPC									
NAPS	440	280	315	318	6.73	280	6.72	0.01	
RAPS- B	440	420	461	461	10.04	418	10.08	-0.04	
RAPS- C	440	460	471	474	10.26	427	11.04	-0.78	
Sub Total (B)	1320	1160	1247	1253	27.03	1126	27.84	-0.81	
C. NHPC									
Chamera I HPS	540	545	540	0	2.35	98	2.45	-0.09	
Chamera II HPS	300	303	304	0	1.76	73	1.71	0.05	
Chamera III HPS	231	231	234	0	1.10	46	1.10	0.00	
Bairasuil HPS	180	182	120	0	0.66	28	0.66	0.01	
Salai-HPS	690	146	206	224	3.30	137	3.23	0.07	
Tanakpur-HPS	94	45	60	46	1.07	44	1.08	-0.02	
Uri-HPS	480	118	160	48	2.60	108	2.36	0.24	
Dhauliganga-HPS	280	288	280	0	1.50	62	1.50	0.00	
Dulhasti-HPS	390	388	336	0	3.72	155	3.82	-0.10	
Sewa-II HPS	120	120	80	0	0.25	10	0.23	0.02	
Sub Total (C)	3305	2365	2320	318	18.30	763	18.32	0.17	
D.NJPC									
Nathpa Jhakri	1500	1605	1348	0	8.27	345	8.13	0.14	
Sub Total (D)	1500	1605	1348	0	8.27	345	8.13	0.14	
E. THDC									
Tehri HPS	1000	1050	722	0	5.12	213	5.00	0.12	
Koteswar HPS	400	310	312	0	1.40	58	1.35	0.05	
Sub Total (E)	1400	1360	1034	0	6.51	271	6.35	0.16	
F. BBMB									
Bhakra HPS	1480	657	1099	412	16.16	673	15.77	0.39	
Dehar HPS	990	165	495	0	4.67	195	3.96	0.72	
Pong HPS	396	334	366	306	8.00	333	5.01	3.00	
Sub Total (F)	2866	1156	1960	718	28.83	1201	24.73	4.10	
G. IPP(s)/JV(s)									
ADHPL HPS(IPP)	192	0	0	0	0.66	28	0.65	0.02	
KWHEP HPS(IPP)	1000	0	300	0	4.84	202	4.92	-0.08	
Malana Stg-II HPS	100	0	35	14	0.31	13	0.29	0.02	
Shree Cement TPS	300	0	235	276	6.35	265	6.41	-0.05	
Budhil HPS(IPP)	70	0	9	6	0.20	8	0.42	-0.22	
Sub Total (G)	1662	0	579	296	12.37	515	12.68	-0.31	
H. Total Regional Entities (A-G)	22836	16326	16535	10104	284.80	11867	281.87	2.93	

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	1174	1080	26.66	1111	
	Guru Nanak Dev TPS(Bhatinda)	440	95	95	2.06	86	
	Guru Hargobind Singh TPS(L.mbt)	920	668	547	14.77	615	
	Thermal (Total)	2620	1937	1722	43.49	1812	
	Total Hydro	1148	314	269	9.19	383	
	Total Punjab	3768	2251	1991	52.68	2195	
Haryana	Panipat TPS	1367	776	853	20.15	839	
	DCRTPP (Yamuna nagar)	600	0	0	0.00	0	
	Faridabad GPS (NTPC)	432	138	92	2.84	118	
	RGTPP (kheadar) (IPP)	1200	577	683	15.61	650	
	Magnum Diesel (IPP)	25	0	0	0.00	0	
	Jhajjar(CLP)	1320	501	372	9.61	401	
	Thermal (Total)	4944	1992	2000	48.21	2009	
	Total Hydro	62	24	25	0.65	27	
	Total Haryana	5006	2016	2025	48.85	2036	
Rajasthan	kota TPS	1240	1160	1161	27.27	1136	
	suratgarh TPS	1500	1326	1274	30.43	1268	
	Chabra TPS	500	445	389	9.60	400	
	Dholpur GPS	330	133	133	3.36	140	
	Ramgarh GPS	111	60	73	1.77	74	
	RAPS A (NPC)	300	172	172	4.27	178	
	Barsingsar (NLC)	250	104	104	2.41	100	
	Giral LTPS	250	63	53	1.48	62	
	Rajwest LTPS (IPP)	540	486	486	11.40	475	
	VSLP LTPS (IPP)	135	0	0	0.00	0	
	Thermal (Total)	5156	3949	3845	91.98	3833	
	Total Hydro	550	137	180	4.61	192	
	Wind power	2191	29	1	0.53	22	
	Biomass	91	19	19	0.45	19	
	Solar	201	4	0	0.17	7	
	Renewable/Others (Total)	2483	48	20	5.76	240	
	Total Rajasthan	8189	4134	4045	102.35	4265	
	UP	Anpara TPS	1630	1372	1379	29.50	1229
		Obra TPS	1382	358	408	8.10	338
		Paricha TPS	890	502	424	9.40	392
Panki TPS		210	130	165	3.00	125	
Harduaganj TPS		665	204	212	4.20	175	
Tanda TPS (NTPC)		440	298	294	7.32	305	
Roza TPS (IPP)		1200	900	1067	25.53	1064	
Anpara-C (IPP)		1200	829	868	20.03	835	
Bajaj Energy Pvt.Ltd(IPP) TPS		450	202	203	4.54	189	
Thermal (Total)		8067	4795	5020	111.62	4651	
Vishnuparyag HPS (IPP)		400	118	119	2.76	115	
Other Hydro		527	117	113	3.02	126	
Cogeneration		981	70	70	1.68	70	
Total UP		9975	5100	5322	119.08	4846	
Uttarakhand		Total Hydro	1303	444	322	8.62	359
	Total Uttarakhand	1303	444	322	8.62	359	
Delhi	Raighat TPS	135	103	97	2.34	97	
	Delhi Gas Turbine	282	120	118	2.87	120	
	Pragati Gas Turbine	330	309	316	7.52	313	
	Rithala GPS	108	0	0	0.00	0	
	Bawana GPS	677	270	225	5.98	249	
	Badarpur TPS (NTPC)	705	470	430	10.18	424	
	Thermal (Total)	2237	1272	1186	28.89	1204	
	Total Delhi	2237	1272	1186	28.89	1204	
HP	Baspa HPS (IPP)	330	0	64	1.38	58	
	Malana HPS (IPP)	86	15	15	0.31	13	
	Other Hydro	589	203	154	4.89	204	
	Total HP	1005	218	233	7	274	
J & K	Baglihar HPS (IPP)	450	298	146	6.40	267	
	Other Hydro	323	120	175	3.18	133	
	Gas/Diesel/Others	183	0	0	0.00	0	
	Total J & K	956	418	321	9.58	399	
Total State Control Area Generation		32439	15853	15445	376.64	15578	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			644	2296	47.58	1982	
Total Regional Availability(Gross)		55275	33032	27845	709.01	29427	

IV. Total Hydro Generation:

Regional Entities Hydro	10364	6997	1050	67.74	2822
State Control Area Hydro	5368	1672	1463	45.02	1760
Total Regional Hydro	15731	8669	2513	112.75	4583

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	-500	-250	0	500	0.00	7.38	7.02	0.00	-7.38
Gwalior-Agra (D/C)	0	264	646	0	7.02	0.00	7.02	0.00	7.02
Zerda-Kankroli	-204	-42	0	204	0.00	2.59	0.00	2.59	-2.59
Zerda-Bhinmal	-119	69	111	232	0.00	0.29	0.00	0.29	-0.29
Malanpur-Auraiya	-195	-122	0	195	0.00	2.99	0.00	2.99	-2.99
Badod-Kota/Morak	-190	-92	0	190	0.00	2.63	0.00	2.63	-2.63
Mundra-Mohindergarh(HVDC)	847	846	849	0	20.52	0.00	20.52	0.00	20.52
Sub Total WR	-361	673			27.54	15.88			11.66
Pusauli Bypass	250	250	250	0	5.99	0.00	5.99	0.00	5.99
MZP- GKP (D/C)	282	389	525	0	8.82	0.00	8.82	0.00	8.82
Patna-Balia(D/C)	389	575	636	0	12.26	0.00	12.26	0.00	12.26
B'Sharif-Balia (D/C)	56	279	734	0	5.19	0.00	5.19	0.00	5.19
Barh - Balia(D/C)	0	0	0	0	0.00	0.00	0.00	0.00	0.00
Pusauli-Balia	-126	-88	0	163	0.00	1.80	0.00	1.80	-1.80
Gaya-Fatehpur (765 Kv)	35	122	175	0	2.55	0.00	2.55	0.00	2.55
Pusauli-Sahupuri	159	130	186	0	3.86	0.00	3.86	0.00	3.86
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00	0.00	0.00
Son Ngr-Rihand	-40	-34	0	46	0.00	0.95	0.00	0.95	-0.95
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00	0.00	0.00
Sub Total ER	1005	1623			38.67	2.75			35.92
Total IR Exch	644	2296			66.21	18.63			47.58

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
34.17	0.67	34.84	2.66	-16.11	-0.33	7.45	2.50	-2.50
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
39.68	10.54	50.22	35.92	11.66	47.58	-3.76	1.11	-2.64

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	1.30	90.30	90.30	48.90	9.70
Frequency (Hz)				Average Frequency	Frequency Variation Index	Std. Dev.	Frequency in 15 Min Block	
Maximum		Minimum		Hz			MAX (Hz)	MIN (Hz)
50.48	18.01	49.62	8.21	50.01	0.21	0.14	50.44	49.85

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	412	21:43	402	17:10	6.4	6.4	0.0	0.0
Gorakhpur	400	435	20:58	416	1:02	0.0	0.0	85.1	12.3
Bareilly	400	422	20:48	400	10:19	0.0	0.0	1.1	0.0
Kanpur	400	422	20:55	403	10:16	0.0	0.0	2.6	0.0
Dadri	400	424	3:03	407	11:08	0.0	0.0	21.4	0.0
Ballabhgarh	400	430	3:01	408	10:18	0.0	0.0	50.3	0.0
Bawana	400	427	3:00	408	11:08	0.0	0.0	39.8	0.0
Bassi	400	431	4:03	402	10:16	0.0	0.0	36.8	0.7
Hissar	400	419	3:02	399	11:06	0.0	0.0	0.0	0.0
Moga	400	424	3:00	401	10:17	0.0	0.0	11.2	0.0
Abdullapur	400	427	3:02	409	11:02	0.0	0.0	32.9	0.0
Nalagarh	400	428	3:00	412	10:18	0.0	0.0	43.8	0.0
Kishenpur	400	422	12:59	395	10:25	0.0	0.0	1.0	0.0
Wagoora	400	424	13:00	375	18:47	4.7	41.7	0.3	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
Koteshwar	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 17.11.2012 :

Normal

XII. Synchronisation of new generating units :

0.00

XIII. Synchronisation of new 220 / 400 / 765 KV lines and energising of bus / substation :

1: 400kV Ballabgarh-Nabada(HVPN) line first time charged at 21:20hrs of dt 17.11.12 after LLO of 400kV Ballabgarh-Gr.Noida line at Nabada (HVPN).

XIV. Tripping of lines in pooling stations :

XV. Complete generation loss in a generating station :

Report for : 17.11.2012

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER