

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 19.01.2012
Date of Reporting : 20.01.2012

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
32008	3859	35867	49.63	24583	650	25233	50.10	683.9	56.30

* 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	44.41	10.72		55.13	29.38	32.29	2.91	87.42	2.88
Haryana	63.10	0.72		63.82	24.85	29.51	4.66	93.33	7.10
Rajasthan	86.89	4.23	5.90	97.02	50.42	61.52	11.10	158.54	8.00
Delhi	30.86			30.86	40.28	35.43	-4.84	66.29	0.12
UP	83.66	6.59	15.60	105.86	86.08	80.42	-5.66	186.28	35.50
Uttarakhand		8.32		8.32	19.08	23.17	4.09	31.49	0.46
HP		4.22		4.22	20.88	18.61	-2.26	22.83	0.34
J & K		4.35	0.00	4.35	25.23	29.53	4.30	33.88	1.90
Chandigarh				0.00	3.56	3.81	0.25	3.81	0.00
Total	308.92	39.15	21.50	369.56	299.75	314.29	14.54	683.86	56.30

* 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	4580	600	157	-333	2691	0	-79	-481	-7.41
Haryana	4510	974	439	-201	3397	0	-113	-204	-4.53
Rajasthan	7082	481	802	200	6499	0	744	345	9.36
Delhi	3446	11	-322	-25	1478	0	51	-340	-3.19
UP	8015	1590	-657	265	7336	650	-310	265	6.36
Uttarakhand	1567	70	149	410	1086	0	128	390	9.72
HP	1044	33	-518	-38	720	0	-10	405	6.30
J&K	1556	100	-42	301	1274	0	144	302	6.71
Chandigarh	208	0	-9	0	103	0	4	-30	-0.24
Total	32008	3859	-1	577	24583	650	558	652	23.09

* 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 (Gross)	Off Peak MW (Gross)	Energy (Net MU)	Average Sentout(MW)	Schedule		UI	
								Net MU	Net MU	Net MU	Net MU
A. NTPC	Singrauli STPS	2000	1760	1887	1853	42.68	1778	41.95		0.73	
	Rihand I STPS	1000	800	889	776	18.99	791	18.60		0.39	
	Rihand II STPS	1000	977	1045	926	23.12	963	22.90		0.22	
	Dadri I STPS	840	793	837	612	17.78	741	17.81		-0.03	
	Dadri II STPS	980	950	988	961	22.36	932	22.80		-0.44	
	Unchahar I TPS	440	353	367	371	8.18	341	8.11		0.07	
	Unchahar II TPS	440	352	366	323	7.98	333	7.82		0.16	
	Unchahar III TPS	210	176	180	166	4.04	168	3.98		0.06	
	ISTPP (Jhajjar)	1000	475	488	501	10.92	455	10.94		-0.02	
	Dadri GPS	830	846	776	552	15.90	663	16.16		-0.26	
	Anta GPS	419	433	365	281	8.09	337	7.78		0.30	
	Auraiya GPS	663	660	330	309	7.49	312	7.88		-0.40	
	Sub Total (A)	9822	8575	8518	7631	187.53	7814	186.75	0.79		
	B. NPC	NAPS	440	203	140	281	4.64	193	4.88		-0.24
RAPS- B		440	427	468	476	10.22	426	10.25		-0.03	
RAPS- C		440	420	465	473	10.07	420	10.08		-0.01	
Sub Total (B)		1320	1050	1073	1230	24.92	1039	25.21	-0.29		
C. NHPC	Chamera I HPS	540	356	356	0	1.50	63	1.44		0.07	
	Chamera II HPS	300	297	197	0	1.23	51	1.19		0.04	
	Bairasuil HPS	180	179	179	0	0.67	28	0.62		0.05	
	Salal-HPS	690	123	205	105	3.00	125	2.95		0.05	
	Tanakpur-HPS	94	30	32	19	0.67	28	0.71		-0.03	
	Uri-HPS	480	105	208	105	2.66	111	2.32		0.34	
	Dhauliganga-HPS	280	210	207	0	1.11	46	1.09		0.02	
	Dulhasti-HPS	390	388	269	0	3.06	127	2.16		0.90	
	Sewa-II HPS	120	119	83	0	0.47	20	0.35		0.13	
	Sub Total (C)	3074	1807	1736	229	14.37	599	12.81	1.55		
D. NJPC	Nathpa Jhakri	1500	1069	1268	0	6.80	284	6.72		0.08	
	Sub Total (D)	1500	1069	1268	0	6.80	284	6.72	0.08		
E. THDC	Tehri HPS	1000	1000	999	0	8.98	374	9.00		-0.02	
	Koteshwar HPS	200	119	200	0	2.83	118	2.80		0.03	
	Sub Total (E)	1200	1119	1199	0	11.81	492	11.80	0.01		
F. BBMB	Bhakra HPS	1480	650	945	572	15.92	663	15.60		0.32	
	Dehar HPS	990	139	495	0	3.56	148	3.33		0.23	
	Pong HPS	396	130	246	0	3.20	133	3.13		0.07	
	Sub Total (F)	2866	919	1686	572	22.68	945	22.06	0.62		
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	0	0	0.30	13	0.28		0.02	
	KWHEP HPS(IPP)	1000	0	480	0	3.79	158	3.60		0.19	
	Malana Stg-II HPS	100	0	0	0	0.00	0	0.00		0.00	
	Shree Cement TPS	150	0	145	125	3.21	134	3.45		-0.23	
	Sub Total (G)	1442	0	625	125	7.30	304	7.33	-0.02		
H. Total Regional Entities (A-G)	21225	14539	16105	9787	275.42	11476	272.67	2.75			

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	840	560	18.36	765	
	Guru Nanak Dev TPS(Bhatinda)	440	216	215	4.63	193	
	Guru Hargobind Singh TPS(L.mbt)	920	960	882	21.42	893	
	Thermal (Total)	2620	2016	1657	44.41	1850	
	Total Hydro	1148	695	199	10.72	447	
	Total Punjab	3768	2711	1856	55.13	2297	
Haryana	Panipat TPS	1360	927	926	22.44	935	
	DCRTPP (Yamuna nagar)	600	261	278	6.51	271	
	Faridabad GPS (NTPC)	432	437	321	9.33	389	
	RGTPP (khedar) (IPP)	1200	959	952	24.83	1034	
	Magnum Diesel (IPP)	25	0	0	0.00	0	
	Jhajjar(CLP)	660	0	0	0.00	0	
	Thermal (Total)	4277	2584	2477	63.10	2629	
	Total Hydro	62	29	31	0.72	30	
	Total Haryana	4339	2613	2508	63.82	2659	
	Rajasthan	kota TPS	1240	977	888	22.92	955
suratgarh TPS		1500	1164	1269	29.10	1212	
Chabra TPS		500	435	423	9.53	397	
Dholpur GPS		330	227	226	5.46	228	
Ramgarh GPS		113	0	0	0.14	6	
RAPS A (NPC)		300	182	183	4.53	189	
Barsingsar (NLC)		250	155	160	4.51	188	
Giral LTPS (IPP)		250	90	90	1.59	66	
Rajwest LTPS (IPP)		540	360	325	9.11	380	
VSLP LTPS (IPP)		135	0	0	0.00	0	
Thermal (Total)		5158	3590	3564	86.89	3620	
Total Hydro		550	193	90	4.23	176	
Wind power		1294	32	63	0.67	28	
Biomass		71	41	41	0.99	41	
Solar		50	0	0	0.00	0	
Renewable/Others (Total)		1365	73	104	5.90	246	
Total Rajasthan		7073	3856	3758	97.02	4042	
UP		Anpara TPS	1630	1376	1380	32.90	1371
		Obra TPS	1442	445	566	11.60	483
		Paricha TPS	640	184	194	4.40	183
	Panki TPS	210	144	126	3.00	125	
	Harduaganj TPS	415	272	231	5.60	233	
	Tanda TPS (NTPC)	440	403	390	9.83	410	
	Roza TPS (IPP)	900	446	444	10.80	450	
	Anpara-C (IPP)	1200	18	0	0.58	24	
	Bajaj Energy Pvt.Ltd(IPP) TPS	180	211	183	4.96	207	
	Thermal (Total)	7057	3499	3514	83.66	3486	
	Vishnuparyag HPS (IPP)	400	79	79	1.90	79	
	Other Hydro	527	272	0	4.69	196	
	Cogeneration	951	650	650	15.60	650	
	Total UP	8935	4500	4243	105.86	4331	
	Uttarakhand	Total Hydro	1303	460	238	8.32	346
Total Uttarakhand		1303	460	238	8.32	346	
Delhi	Rajghat TPS	135	53	53	1.24	52	
	Delhi Gas Turbine	282	190	79	4.33	180	
	Pragati Gas Turbine	330	318	262	7.20	300	
	Rithala GPS	108	19	33	0.40	17	
	Bawana GPS	440	143	34	3.40	142	
	Badarpur TPS (NTPC)	705	610	580	14.28	595	
	Thermal (Total)	2000	1333	1139	30.86	1286	
	Total Delhi	2000	1333	1139	30.86	1286	
HP	Baspa HPS (IPP)	330	0	0	1.10	46	
	Malana HPS (IPP)	101	0	0	0.21	9	
	Other Hydro	571	158	70	2.91	121	
	Total HP	1002	158	70	4	176	
J & K	Baglihar HPS (IPP)	450	128	124	2.98	124	
	Other Hydro	323	27	125	1.38	57	
	Gas/Diesel/Others	183	0	0	0.00	0	
	Total J & K	956	155	249	4.35	181	
Total State Control Area Generation		29376	15786	14061	369.56	15319	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			1752	1769	56.65	2360	
Total Regional Availability(Gross)		50601	33643	25617	701.63	29156	

IV. Total Hydro Generation:

Regional Entities Hydro	10083	6514	926	62.97	2624
State Control Area Hydro	5365	1962	877	37.25	1552
Total Regional Hydro	15447	8476	1803	100.21	4175

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	100	100	100	100	1.87	0.43	1.44
Gwalior-Agra (D/C)	395	684	1103	0	18.63	0.00	18.63
Zerda-Kankroli	27	-39	228	109	1.10	0.00	1.10
Zerda-Bhinmal	94	52	360	19	2.96	0.00	2.96
Malanpur-Auraiya	-102	-97	121	0	0.00	1.41	-1.41
Badod-Kota/Morak	12	-14	81	51	0.00	0.13	-0.13
Sub Total WR	526	686			24.56	1.97	22.59
Pusauli Bypass	29	-34	241	39	1.72	0.26	1.46
MZP- GKP (D/C)	412	320	740	0	11.33	0.00	11.33
Patna-Balia(D/C)	228	239	390	0	6.91	0.00	6.91
B'Sharif-Balia (D/C)	191	204	365	0	4.93	0.00	4.93
Barh - balia(D/C)	255	257	408	0	7.41	0.00	7.41
Pusauli-Sahupuri	141	129	180	0	2.84	0.00	2.84
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-30	-32	0	48	0.00	0.82	-0.82
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sub Total ER	1226	1083			35.14	1.08	34.06
Total IR Exch	1752	1769			59.70	3.05	56.65

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
25.02	0.36	25.38	11.14	14.14	-0.52	6.47	2.77	-2.77

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
38.78	9.35	48.12	34.06	22.59	56.65	-4.72	13.24	8.52

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	0.10	0.40	10.90	39.20	87.80	59.50	16.40	1.30

<----- Frequency (Hz) ----->				Average Frequency Hz	Frequency Variation Index	Std. Dev.	Frequency in 15 Min Block	
Maximum		Minimum					MAX (Hz)	MIN (Hz)
Freq	Time	Freq	Time					
50.29	5.06	48.99	19.08	49.77	0.87	0.22	50.26	49.40

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	00:00	397	16:11	0.0	0.0	0.0	0.0
Gorakhpur	400	432	19:41	411	06:34	0.0	0.0	72.3	2.5
Bareilly	400	424	02:07	399	11:07	0.0	0.0	11.9	0.0
Kanpur	400	420	02:23	398	16:14	0.0	0.0	0.0	0.0
Dadri	400	420	01:43	398	16:14	0.0	0.0	0.0	0.0
Ballabgarh	400	426	02:34	400	16:13	0.0	0.0	18.8	0.0
Bawana	400	425	02:00	402	16:10	0.0	0.0	18.9	0.0
Bassi	400	429	06:01	396	11:43	0.0	0.0	26.7	0.0
Hissar	400	416	20:57	395	16:09	0.0	0.0	0.0	0.0
Moga	400	426	00:00	405	16:07	0.0	0.0	8.0	0.0
Abdullapur	400	421	01:58	401	16:13	0.0	0.0	1.5	0.0
Nalagarh	400	428	00:00	409	16:13	0.0	0.0	32.1	0.0
Kishenpur	400	424	21:14	388	22:20	0.0	0.8	0.7	0.0
Wagoora	400	411	21:14	369	22:19	24.6	92.6	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	498.76	1041.47	501.58	1166.44	224.86	453.07
Pong	426.72	384.05	412.35	577.87	415.59	693.24	150.59	198.22
Tehri	829.79	740.04	803.05	665.65	818.65	982.26	68.98	216.00
Koteshwar	612.50	598.50	607.10	3.32	NA	NA	204.00	187.00
Chamera-I	760.00	748.75	754.55	NA	753.15	1.20	59.83	28.65
Rihand	268.22	252.98	263.44	508.00	257.04	159.40	NA	NA
RPS	352.80	343.81	349.83	NA	348.47	NA	NA	157.92
Jawahar Sagar	298.70	295.78	297.55	NA	297.85	NA	NA	200.14
RSD	527.91	487.91	508.14	NA	511.12	NA	14.72	235.74

* NA: Not Available

IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

XI. Weather Conditions For 19.01.2012 :

1.Light fog.

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 : 19.01.2012

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER