

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(भारत सरकार का उद्यम)

उत्तरी क्षेत्रीय भार प्रेषण केंद्र

CIN: U40105DL2009GOI188682

Power Supply Position in Northern Region for 28.01.2017

Date of Reporting : 29.01.2017



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
40618	514	41132	49.98	26029	452	26481	49.99	800.45	11.99

* 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:

UI [OD:(+ve), UD: (-ve)]

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	54.86	7.04	0.27	62.17	30.13	31.14	1.02	93.32	0.00
Haryana	29.26	0.42	0.00	29.68	73.16	72.00	-1.16	101.68	0.00
Rajasthan	95.53	4.43	8.52	108.48	70.57	74.34	3.77	182.82	0.00
Delhi	11.77		0.00	11.77	49.64	49.73	0.09	61.50	0.06
UP	146.60	4.70	0.00	151.30	97.10	97.98	0.88	249.28	0.00
Uttarakhand		8.77	0.00	13.42	22.35	21.65	-0.70	35.07	0.29
HP		5.84	2.35	5.84	20.91	20.85	-0.06	26.70	0.00
J & K		4.73	0.00	4.73	38.69	41.85	3.16	46.58	11.65
Chandigarh				0.00	3.62	3.51	-0.11	3.51	0.00
Total	338.01	35.93	11.15	387.38	406.18	413.07	6.89	800.45	11.99

* Shortage furnished by the respective constituent's Others include UP Co-generation and JK Diesel

II. B. State's Demand Met in MWs:

UI/OA/PX [OD/Import: (+ve), UD/Export: (-ve)]

State	Evening Peak (19:00 Hrs) MW				Off Peak (03:00 Hrs) MW				Maximum Demand Met (MW) and Time(Hrs)	Shortage (MW)	
	Demand Met	Shortage	UI	STOA/PX transaction	Demand Met	Shortage	UI	STOA/PX transaction			
Punjab	4873	0	9	-1695	2941	0	111	-536	4924	9:00	0
Haryana	6005	0	107	-267	2548	0	52	-521	6005	19:00	0
Rajasthan	8800	0	179	248	6035	0	185	453	8931	20:00	0
Delhi	2977	3	-151	249	1444	2	36	-242	3688	11:00	0
UP	12552	0	79	-225	9179	0	-2	97	12552	19:00	0
Uttarakhand	1904	0	-19	146	1210	0	-86	252	1933	8:00	0
HP	1276	0	-146	308	787	0	-67	557	1492	10:00	0
J&K	2043	511	107	893	1799	450	107	616	2107	21:00	527
Chandigarh	188	0	-8	0	86	0	-1	0	209	9:00	0
Total	40618	514	158	-342	26029	452	335	675	40618	19:00	514

* STOA figures are at sellers boundary & PX figures are at regional boundary. # figures may not be at simultaneous hour.

Diversity is 1.03

III. Regional Entities :

UI [DG:(+ve), UG: (-ve)]

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 (5*200+2*500)	2000	1890	2041	1855	44.35	1848	43.69	0.66
Rihand I STPS (2*500)	1000	473	472	379	10.16	423	10.08	0.08
Rihand II STPS (2*500)	1000	958	950	719	21.20	883	20.77	0.43
Rihand III STPS (2*500)	1000	963	975	697	21.03	876	20.73	0.30
Dadri I STPS (4*210)	840	815	210	147	3.75	156	3.88	-0.14
Dadri II STPS (2*490)	980	980	343	0	6.40	267	6.96	-0.57
Unchahar I TPS (2*210)	420	407	418	298	8.05	335	8.53	-0.49
Unchahar II TPS (2*210)	420	405	365	297	7.48	312	8.10	-0.61
Unchahar III TPS (1*210)	210	191	175	148	2.99	124	3.79	-0.80
ISTPP (Jhajihar) (3*500)	1500	1440	0	0	0.00	0	0.37	-0.37
Dadri GPS (4*130.19+2*154.51)	830	783	180	189	4.33	180	4.89	-0.56
Anta GPS (3*88.71+1*153.2)	419	420	0	0	0.00	0	0.00	0.00
Auraiya GPS (4*111.19+2*109.30)	663	644	0	0	0.00	0	0.00	0.00
Dadri Solar(5)	5	1	0	0	0.02	1	0.02	0.00
Unchahar Solar(10)	10	2	0	0	0.05	2	0.04	0.01
Singrauli Solar(15)	15	1	0	0	0.06	3	0.03	0.04
KHEP(4*200)	800	872	863	0	2.83	118	2.62	0.21
Sub Total (A)	12112	11243	6992	4729	133	5528	134	-1.81
B. NPC								
NAPS (2*220)	414	414	451	461	10.01	417	9.94	0.07
RAPS- B (2*220)	440	404	447	450	9.71	405	9.70	0.01
RAPS- C (2*220)	440	405	452	453	9.83	409	9.72	0.11
Sub Total (B)	1320	1223	1350	1364	29.54	1231	29.35	0.19
C. NHPC								
Chamera I HPS (3*180)	540	540	553	0	4.29	179	4.00	0.29
Chamera II HPS (3*100)	300	301	311	0	1.68	70	1.43	0.25
Chamera III HPS (3*77)	231	234	227	0	0.83	34	0.80	0.02
Bairasuli HPS(3*60)	180	120	124	0	1.32	55	1.28	0.05
Salal-HPS (6*115)	690	212	336	144	5.82	242	5.08	0.74
Tanakpur-HPS (3*31.4)	94	19	31	19	0.58	24	0.46	0.12
Uri-I HPS (4*120)	480	236	351	215	6.34	264	5.68	0.67
Uri-II HPS (4*60)	240	148	181	121	3.62	151	3.55	0.06
Dhauliganga-HPS (4*70)	280	140	144	0	0.81	34	0.74	0.08
Dulhasti-HPS (3*130)	390	257	265	0	1.63	68	1.50	0.13
Sewa-II HPS (3*40)	120	124	129	129	3.09	129	2.98	0.11
Parbati 3 (4*130)	520	130	142	0	0.42	17	0.39	0.03
Sub Total (C)	4065	2462	2794	629	30	1267	28	2.54
D.SJVNL								
NJPC (6*250)	1500	1615	1561	0	5.95	248	6.00	-0.05
Rampur HEP (6*88.67)	412	442	370	0	1.68	70	1.67	0.01
Sub Total (D)	1912	2057	1931	0	7.63	318	7.67	-0.04
E. THDC								
Tehri HPS (4*250)	1000	940	938	0	9.25	385	9.20	0.05
Koteshwar HPS (4*100)	400	133	397	69	3.24	135	3.20	0.04
Sub Total (E)	1400	1073	1335	69	12.50	521	12.40	0.10
F. BBMB								
Bhakra HPS (2*108+3*126+5*157)	1379	462	911	328	11.36	473	11.08	0.28
Dehar HPS (6*165)	990	168	495	0	4.12	172	4.18	-0.06
Pong HPS (6*66)	396	151	330	0	3.65	152	3.62	0.03
Sub Total (F)	2765	781	1736	328	19.14	798	18.88	0.26
G. IPP(s)/JV(s)								
ALLAIN DUHANGAN HPS(IPP) (2*96)	192	0	56	0	0.34	14	0.33	0.02
KARCHAM WANGTOO HPS(IPP) (4*250)	1000	0	580	0	2.94	123	3.32	-0.37
Malana Stg-II HPS (2*50)	100	0	0	0	0.20	8	0.18	0.01
Shree Cement TPS (2*150)	300	0	298	144	5.92	247	5.90	0.02
Budhil HPS(IPP) (2*35)	70	0	0	0	0.15	6	0.15	0.00
Sub Total (G)	1662	0	934	144	9.55	398	9.88	-0.33
H. Total Regional Entities (A-G)	25237	18839	17071	7262	241.44	10060	240.54	0.90

I. State Entities	Station	Effective Installed Capacity (MW)	Peak MW	Off Peak MW	Energy(MU)	Average(Sentout MW)
Punjab	Guru Gobind Singh TPS (Ropar) (6*210)	1260	0	0	-0.13	-5
	Guru Nanak Dev TPS(Bhatinda) (2*110+2*120)	460	0	0	-0.02	-1
	Guru Hargobind Singh TPS(L.mbt) (2*210+2*250)	920	0	0	-0.12	-5
	Goinawal(GVK) (2*270)	540	0	0	-0.02	-1

	Rajpura (2*700)	1400	1320	660	26.31	1096
	Talwandi Saboo (3*660)	1980	1374	924	28.83	1201
	Thermal (Total)	6560	2694	1584	54.86	2286
	Total Hydro	1000	413	169	7.04	293
	Wind Power	0	0	0	0.00	0
	Biomass	288	0	0	0.23	9
	Solar	560	0	0	0.05	2
	Renewable(Total)	848	0	0	0.27	11
	Total Punjab	8408	3107	1753	62.17	2591
Haryana	Panipat TPS (2*210+2*250)	920	0	0	0.00	0
	DCRTPP (Yamuna nagar) (2*300)	600	0	0	0.00	0
	Faridabad GPS (NTPC)(2*137.75+1*156)	432	199	0	3.03	126
	RGTPP (khedar) (IPP) (2*600)	1200	1156	772	23.21	967
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP) (2*660)	1320	364	0	3.01	125
	Thermal (Total)	4497	1719	772	29.26	1219
	Total Hydro	62	11	17	0.42	18
	Wind Power	0	0	0	0.00	0
	Biomass	40	0	0	0.00	0
	Solar	0	0	0	0.00	0
	Renewable(Total)	40	0	0	0.00	0
	Total Haryana	4599	1730	789	29.68	1237
Rajasthan	kota TPS (2*110+2*195+3*210)	1240	98	90	2.16	90
	suratgarh TPS (6*250)	1500	223	181	4.73	197
	Chabra TPS (4*250)	1000	688	183	13.72	572
	Dholpur GPS (3*110)	330	0	0	0.00	0
	Ramgarh GPS(1*37.5 + 1*35.5 +2*37.5 +1*110 +1*50)	271	159	162	4.16	173
	RAPS A (NPC) (1*100+1*200)	300	190	190	4.38	183
	Barsingar (NLC) (2*125)	250	227	224	5.32	222
	Giral LTPS (2*125)	250	0	0	0.00	0
	Rajwst LTPS (IPP) (8*135)	1080	955	502	20.13	839
	VS LIGNITE LTPS (IPP) (1*135)	135	0	0	0.00	0
	Kalisindh Thermal(2*600)	1200	918	416	15.03	626
	Kawai(Adani) (2*660)	1320	1183	817	25.88	1078
	Thermal (Total)	8876	4641	2765	95.53	3980
	Total Hydro	550	239	113	4.43	185
	Wind power	4017	157	591	7.71	321
	Biomass	99	7	7	0.16	7
	Solar	1295	12	0	0.66	27
	Renewable/Others (Total)	5411	176	598	8.52	355
	Total Rajasthan	14837	5056	3476	108.48	4520
UP	Anpara TPS (3*210+2*500)	1630	1238	965	27.80	1158
	Obra TPS (2*50+2*94+5*200)	1194	509	516	12.30	513
	Paricha TPS (2*110+2*220+2*250)	1160	0	0	0.00	0
	Panki TPS (2*105)	210	0	0	0.00	0
	Harduaganj TPS (1*60+1*105+2*250)	665	101	95	2.30	96
	Tanda TPS (NTPC) (4*110)	440	395	275	8.10	337
	Roza TPS (IPP) (4*300)	1200	218	198	5.00	208
	Anpara-C (IPP) (2*600)	1200	1076	639	22.90	954
	Bajaj Energy Pvt.Ltd(IPP) TPS (10*45)	450	0	0	0.00	0
	Anpara-D(2*500)	1000	417	283	9.00	375
	Lalitpur TPS(3*660)	1980	922	729	22.20	925
	Bara(2*660)	1320	1062	377	16.60	692
	Thermal (Total)	12449	5938	4077	126.20	5258
	Vishnuparyag HPS (IPP)(4*110)	440	68	68	1.50	63
	Alaknada(4*82.5)	330	77	0	1.10	46
	Other Hydro	527	167	146	2.10	88
	Cogeneration	981	850	850	20.40	850
	Wind Power	0	0	0	0.00	0
	Biomass	26	0	0	0.00	0
	Solar	102	0	0	0.00	0
	Renewable(Total)	128	0	0	0.00	0
	Total UP	14855	7100	5141	151.30	6304
	Uttarakhand	Other Hydro	1250	504	358	8.77
Total Gas		225	293	100	4.63	193
Wind Power		0	0	0	0.00	0
Biomass		127	0	0	0.00	0
Solar		20	0	0	0.02	1
Small Hydro (< 25 MW)		180	0	0	0.00	0
Renewable(Total)		327	0	0	0.02	1
Total Uttarakhand		1802	797	458	13.42	559
Delhi	Rajghat TPS (2*67.5)	135	0	0	-0.01	0
	Delhi Gas Turbine (6x30 + 3x34)	282	74	76	1.97	82
	Pragati Gas Turbine (2x104+ 1x122)	330	161	148	3.82	159
	Rithala GPS (3*36)	95	0	0	0.00	0
	Bawana GPS (4*216+2*253)	1370	252	280	6.16	257
	Badarpur TPS (NTPC) (3*95+2*210)	705	-3	-3	-0.18	-7
	Thermal (Total)	2917	484	501	11.77	490
	Wind Power	0	0	0	0.00	0
	Biomass	16	0	0	0.00	0
	Solar	2	0	0	0.00	0
	Renewable(Total)	18	0	0	0.00	0
	Total Delhi	2935	484	501	11.77	490
HP	Baspa HPS (IPP) (3*100)	300	0	0	1.00	42
	Malana HPS (IPP) (2*43)	86	0	0	0.19	8
	Other Hydro	372	105	60	2.31	96
	Wind Power	0	0	0	0.00	0
	Biomass	0	0	0	0.00	0
	Solar	0	0	0	0.00	0
	Small Hydro (< 25 MW)	486	101	94	2.35	98
	Renewable(Total)	486	101	94	2.35	98
	Total HP	1244	207	154	5.84	243
	J & K	Baqilhar HPS (IPP) (3*150+3*150)	900	142	142	3.40
Other Hydro/IPP(including 98 MW Small Hydro)		308	94	39	1.33	55
Gas/Diesel/Others		190	0	0	0.00	0
Wind Power		0	0	0	0.00	0
Biomass		0	0	0	0.00	0
Solar		0	0	0	0.00	0
Small Hydro (< 25 MW)Included in Other Hydro Above		98	0	0	0.00	0
Renewable(Total)		98	0	0	0.00	0
Total J & K	1398	236	181	5	197	

Total State Control Area Generation	50078	18717	12453	387.38	16141
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]		7227.57	7155.84	190.14	7922
Total Regional Availability(Gross)	75315	43015	26871	818.97	34124

IV. Total Hydro Generation:

Regional Entities Hydro	12234	9294	1026	75.98	3166
State Control Area Hydro	7163	2215	1306	35.93	1691
Total Regional Hydro	19397	11509	2331	111.92	4857

V. Total Renewable Generation:

Regional Entities Renewable	30	0	0	0.13	5
State Control Area Renewable	7356	277	692	11.16	465
Total Regional Renewable	7386	277	692	11.29	471

VI(A). Inter Regional Exchange [Import (+ve)/Export (-ve)] [Linkwise]

Element	Peak(19:00 Hrs) MW	Off Peak(03:00 Hrs) MW	Maximum Interchange (MW)		Energy (MU)		Net Energy MU
			Import	Export	Import	Export	
Vindhychal(HVDC B/B)	-250	-50	0	250	0.00	3.39	-3.39
765 KV Gwalior-Agra (D/C)	2301	2366	2819	0	61.11	0.00	61.11
400 KV Zerda-Kankroli	-10	-82	42	126	0.00	1.22	-1.22
400 KV Zerda-Bhimnal	70	-5	169	71	1.11	0.00	1.11
220 KV Auraiya-Malanpur	-32	9	0	34	0.00	0.02	-0.02
220 KV Badod-Kota/Morak	68	50	120	0	1.40	0.00	1.40
Mundra-Mohinderghar(HVDC Bipole)	2502	1802	2506	0.00	54.83	0.00	54.83
400 KV RAPP-C-Sujalpur	372	167	372	0	6.26	0.00	6.26
400 KV Vindhychal-Rihand	0	0	0	0	0.00	0.00	0.00
765 kV Phagi-Gwalior (D/C)	992	1323	1620	0	29.13	0.00	29.13
Sub Total WR	6013	5580			153.85	4.63	149.22
400 kV Sasaram - Varanasi	201	168	210	0	4.54	0.00	4.54
400 kV Sasaram - Allahabad	39	74	77	0	1.35	0.00	1.35
400 KV MZP- GKP (D/C)	-14	335	386	129	5.52	0.00	5.52
400 KV Patna-Balia(D/C) X 2	525	490	717	0	12.92	0.00	12.92
400 KV B'Sharif-Balia (D/C)	-11	192	260	45	3.30	0.00	3.30
765 KV Gaya-Balia	203	28	266	0	3.48	0.00	3.48
765 KV Gaya-Varanasi (D/C)	269	486	739	0	11.55	0.00	11.55
220 KV Pusaali-Sahupuri	79	107	158	0	2.98	0.00	2.98
132 KV K'nasa-Sahupuri	0	0	0	0	0.00	0.51	-0.51
132 KV Son Ngr-Rihand	-36	-30	0	42	0.00	0.82	-0.82
132 KV Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
765 KV Sasaram - Fatehpur	-196	-70	69	217	0.00	1.72	-1.72
400 KV Barh -GKP (D/C)	508	338	540	0	9.78	0.00	9.78
400 kV B'Sharif - Varanasi (D/C)	148	-42	163	150	0.41	0.00	0.41
Sub Total ER	1715	2076			55.83	3.05	52.79
+/- 800 KV BiswanathCharialli-Agra	-500	-500	0	500.00	0.00	11.87	-11.87
Sub Total NER	-500	-500			0.00	11.87	-11.87
Total IR Exch	7228	7156			209.68	19.54	190.14

VI(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
32.93	0.37	33.30	-1.17	-6.28	14.73	0.00	0.00	0.00

Total IR Schedule (MU)			Total IR Actual (MU)			Net IR UI (MU)		
Through ER	Through WR Inclds Mndra	Total	Through ER(including NER)	Through WR	Total	Through ER (including NER)	Through WR	Total
46.86	142.95	189.81	40.92	149.22	190.14	-5.94	6.27	0.33

VI(C). Inter National Exchange with Nepal [Import (+ve)/Export (-ve)] [Linkwise]

Element	Peak(19:00 Hrs) MW	Off Peak(03:00 Hrs) MW	Maximum Interchange (MW)		Energy (MU)		Net Energy MU
			Import	Export	Import	Export	
132 KV Tanakpur - Mahendarnagar	-38	-24	0	39	0	1	-0.80

VII. Frequency Profile ----- % of Time Frequency ----->

<49.2	<49.7	<49.8	<49.9	<50.0	49.9-50.05	50.05-50.10	50.10-50.20	>50.20	>50.50
0.00	0.00	0.00	6.50	56.34	75.87	15.08	2.58	0.01	0.00

----- Frequency (Hz) ----->				Average Frequency	Frequency Variation	Std. Dev.	Frequency in 15 Min Block		Freq Dev Index (% of Time)
Maximum		Minimum					MAX	MIN	
Freq	Time	Freq	Time	Hz	Index	(Hz)	(Hz)		
50.20	18.02	49.81	0.05	49.99	0.037	0.060	50.08	49.88	24.13

VIII(A). Voltage profile 400 kV

Station	Voltage Level (kV)	Maximum		Minimum		Voltage (in % of Time)				Volta ge Deviat
		Voltage(KV)	Time	Voltage (KV)	Time	<380 kV	<390 kV	>420 kV	>430 kV	
Rihand	400	409	2:40	401	8:13	0.0	0.0	0.0	0.0	0.0
Gorakhpur	400	422	13:34	406	19:01	0.0	0.0	6.2	0.0	6.2
Bareilly(PG)400kV	400	420	2:54	402	18:20	0.0	0.0	0.0	0.0	0.0
Kanpur	400	418	0:44	404	8:45	0.0	0.0	0.0	0.0	0.0
Dadri	400	429	2:54	408	18:44	0.0	0.0	28.5	0.0	28.5
Ballabgarh	400	424	0:12	406	8:45	0.0	0.0	20.5	0.0	20.5
Bawana	400	428	0:11	409	8:46	0.0	0.0	31.1	0.0	31.1
Bassi	400	425	2:55	404	8:46	0.0	0.0	20.6	0.0	20.6
Hissar	400	423	0:09	406	8:45	0.0	0.0	15.6	0.0	15.6
Moga	400	423	2:30	407	8:49	0.0	0.0	13.5	0.0	13.5
Abdullapur	400	430	0:11	412	18:44	0.0	0.0	50.7	0.0	50.7
Nalagarh	400	432	13:30	416	5:56	0.0	0.0	67.9	1.3	67.9
Kishenpur	400	420	13:01	403	6:57	0.0	0.0	0.0	0.0	0.0
Wagoora	400	405	15:11	379	19:24	0.0	59.4	0.0	0.0	0.0
Amritsar	400	425	2:57	407	7:16	0.0	0.0	29.6	0.0	29.6
Kashipur	400	0	0:00	0	0:00	0.0	0.0	0.0	0.0	0.0
Hamirpur	400	423	2:59	411	8:16	0.0	0.0	27.3	0.0	27.3
Rishikesh	400	0	0:00	0	0:00	0.0	0.0	0.0	0.0	0.0

VIII(B). Voltage profile 765 kV

Station	Voltage Level (kV)	Maximum		Minimum		Voltage (in % of Time)				Volta ge Deviat
		Voltage(KV)	Time	Voltage (KV)	Time	<728 kV	<742 kV	>800 kV	>820 kV	
Fatehpur	765	778	13:03	741	8:46	0.0	0.1	0.0	0.0	0.0
Balia	765	792	0:46	764	18:25	0.0	0.0	0.0	0.0	0.0
Moga	765	804	13:02	770	8:46	0.0	0.0	2.6	0.0	2.6

Agra	765	790	13:21	756	8:46	0.0	0.0	0.0	0.0	0.0
Bhiwani	765	808	0:09	777	8:44	0.0	0.0	31.1	0.0	31.1
Unnao	765	778	2:32	747	18:20	0.0	0.0	0.0	0.0	0.0
Lucknow	765	800	3:58	765	18:25	0.0	0.0	0.0	0.0	0.0
Meerut	765	808	21:10	767	6:38	37.1	37.1	7.5	0.0	44.6
Jhatikara	765	809	0:12	770	6:38	0.0	0.0	10.3	0.0	10.3
Bareilly 765 kV	765	801	2:58	767	18:23	0.0	0.0	0.1	0.0	0.1
Anta	765	798	3:00	768	8:45	0.0	0.0	0.0	0.0	0.0
Phagi	765	803	2:05	770	8:45	0.0	0.0	8.4	0.0	8.4

Note : '0' in Max / Min Col -> Telemetry Outage

IX. 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	482.80	527.87	496.05	937.45	234.07	336.55
Pong	426.72	384.05	405.21	344.07	405.99	370.28	146.11	256.72
Tehri	829.79	740.04	796.55	553.34	789.55	446.89	15.48	231.00
Koteshwar	612.50	598.50	609.70	4.44	610.26	4.69	231.00	213.60
Chamera-I	760.00	748.75	759.62	0.00	0.00	0.00	116.88	109.84
Rihand	268.22	252.98	0.00	0.00	0.00	0.00	0.00	0.00
RPS	352.80	343.81	0.00	0.00	0.00	0.00	0.00	0.00
Jawahar Sagar	298.70	295.78	0.00	0.00	0.00	0.00	0.00	0.00
RSD	527.91	487.91	503.26	1.70	495.71	0.97	215.91	78.72

* NA: Not Available

X(A). Short-Term Open Access Details:

State	Off- Peak Hours (03:00 Hrs)			Peak Hours (19:00 Hrs)			Day Energy (MU)		
	Bilateral (MW)	IEX (MW)	PXIL (MW)	Bilateral (MW)	IEX (MW)	PXIL (MW)	Bilateral (MU)	IEX / PXIL (MU)	Total (MU)
Punjab	-537	1	0	-610	-1084	0	-18.23	-7.81	-26.04
Delhi	-118	-124	0	-298	547	0	-4.40	9.05	4.65
Haryana	-831	310	0	-501	234	0	-14.67	5.84	-8.84
HP	465	93	0	355	-47	0	12.13	-1.38	10.75
J&K	616	0	0	613	280	0	14.59	4.06	18.65
CHD	0	0	0	0	0	0	0.00	-0.05	-0.05
Rajasthan	126	327	0	-7	255	0	9.00	6.39	15.39
UP	97	0	0	-125	-100	0	-7.79	-1.90	-9.68
Uttarakhand	242	10	0	0	146	0	3.10	3.44	6.54
Total	58	617	0	-573	232	0	-6.27	17.64	11.37

X(B). Short-Term Open Access Details:

State	Bilateral (MW)		IEX (MW)		PXIL (MW)	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Punjab	-527	-1248	1	-1386	0	0
Delhi	-39	-308	929	-283	0	0
Haryana	-354	-831	314	-126	0	0
HP	738	197	95	-472	0	0
J&K	616	597	295	-15	0	0
CHD	0	0	20	-51	0	0
Rajasthan	977	-7	328	205	0	0
UP	137	-876	0	-100	0	0
Uttarakhand	264	0	332	3	0	0

XI. System Reliability Indices(Violation of TTC and ATC):

(i)%age of times N-1 Criteria was violated in the inter - regional corridors

WR	0.69%
ER	0.00%
Simultaneous	0.00%

(ii)%age of times ATC violated on the inter-regional corridors

WR	27.08%
ER	0.00%
Simultaneous	1.74%

(iii)%age of times Angular Difference on Important Buses was beyond permissible limits(40 deg.)

Rihand - Dadri	0.00%
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XII. Zero Crossing Violations

State	No. of violations(Maximum 8 in a day)	Maximum number of continuous blocks without sign change
Punjab	1	16
Haryana	1	22
Rajasthan	0	9
Delhi	3	19
UP	1	15
Uttarakhand	2	13
HP	3	23
J & K	0	12
Chandigarh	3	20

XIII. System Constraints:

XIV. Grid Disturbance / Any Other Significant Event:

XV. Weather Conditions For 28.01.2017 :

XVI. Synchronisation of new generating units :

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

0

XVIII. Tripping of lines in pooling stations :

XIX. Complete generation loss in a generating station :

Note: Data(regarding drawal,generation, shortage , inter-regional flows and reservoir levels)of the constituents filled in the report are as per last furnished data by the respective state/constituent to NRLDC.

Report for : 28.01.2017

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER