

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(भारत सरकार का उद्यम)

उत्तर क्षेत्रीय भार प्रेषण केंद्र

CIN: U40105DL2009GOI188682

Power Supply Position in Northern Region for 31.01.2018
Date of Reporting : 01.02.2018



I. Regional Availability/Demand:

Demand Met	Evening Peak (19:00 Hrs) MW			Off Peak (03:00 Hrs) MW				Day Energy (Net MU)	
	Shortage	Requirement	Freq* (Hz)	Demand Met	Shortage	Requirement	Freq* (Hz)	Demand Met	Shortage
42375	523	42898	49.97	30827	304	31131	50.00	909.27	12.66

*Half hourly flow 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	Gas/Naphtha/Diesal	Solar	Wind	Other (Biomass/ Small hydro/ Co-Generation etc.)	Total					
Punjab	69.41	10.79	0.00	2.61	0.00	2.34	85.15	20.54	20.94	0.40	106.09	0.00
Haryana	61.46	0.07	0.00	0.02	0.00	0.13	61.68	54.77	56.85	2.08	118.52	0.00
Rajasthan	109.76	3.82	4.32	0.00	14.07	5.12	137.09	75.09	77.05	1.96	214.13	1.34
Delhi	0.00	0.00	18.20	0.00	0.00	0.00	18.20	49.66	48.34	-1.32	66.54	0.01
UP	158.86	6.50	0.00	2.25	0.00	21.60	189.21	99.36	99.55	0.19	288.76	0.29
Uttarakhand	0.00	7.63	0.00	0.61	0.00	0.00	8.24	29.53	29.50	-0.03	37.73	0.00
HP	0.00	2.98	0.00	0.00	0.00	1.03	4.02	22.53	23.48	0.95	27.50	0.03
J & K	0.00	3.77	0.00	0.00	0.00	0.00	3.77	42.74	42.72	-0.02	46.49	10.99
Chandigarh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.19	3.50	0.32	3.50	0.00
Total	399.48	35.56	22.51	5.49	14.07	30.22	507.34	397.40	401.93	4.53	909.27	12.66

* 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				Maximum Demand Met (MW) and Time(Hrs)	Shortage (MW)	
	Demand Met	Shortage	UI	STOA/PX transaction	Demand Met	Shortage	UI	STOA/PX transaction			
Punjab	5242	0	-77	-1688	2910	0	117	-1483	5242	19	0
Haryana	6342	0	-44	-722	3759	0	166	-294	6364	20	0
Rajasthan	9075	0	-145	-7	8143	0	215	72	11114	9	0
Delhi	3123	0	-198	-920	1536	0	13	-1453	3968	11	0
UP	13115	0	-52	6	10631	0	-49	-23	14244	7	560
Uttarakhand	1896	0	52	944	1219	0	-1	670	2051	8	0
HP	1310	0	91	472	820	0	-15	521	1544	9	0
J&K	2093	523	61	1022	1721	304	25	865	2148	21	537
Chandigarh	179	0	6	-31	88	0	8	-31	221	9	0
Total	42375	523	-305	-924	30827	304	479	-1157	44321	9	886

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

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
Rihand I STPS (2*500)	1000	736	462	881	17.12	713	17.43	-0.31	
Rihand II STPS (2*500)	1000	943	997	923	22.59	941	22.25	0.34	
Rihand III STPS (2*500)	1000	943	1004	787	22.05	919	21.87	0.18	
Dadri I STPS (4*210)	840	769	702	473	12.55	523	12.73	-0.18	
Dadri II STPS (2*490)	980	929	807	600	17.70	737	17.32	0.38	
Unchahar I TPS (2*210)	420	383	346	232	6.86	286	6.96	-0.10	
Unchahar II TPS (2*210)	420	383	326	225	6.72	280	7.06	-0.34	
Unchahar III TPS (1*210)	210	192	210	116	3.58	149	3.60	-0.03	
Unchahar IV TPS (1*500)	500	0	0	0	0.00	0	0.00	0.00	
ISTPP (Jhajjar) (3*500)	1500	948	945	567	17.37	724	17.84	-0.47	
Dadri GPS (4*130.19+2*154.51)	830	838	185	113	3.83	160	4.00	-0.17	
Anta GPS (3*88.71+1*153.2)	419	421	0	0	0.00	0	0.00	0.00	
Auraya GPS (4*111.19+2*109.30)	663	645	0	0	0.01	0	0.02	-0.01	
Dadri Solar(5)	5	1	0	0	0.02	1	0.02	0.00	
Unchahar Solar(10)	10	2	0	0	0.00	0	0.05	-0.04	
Singrauli Solar(15)	15	3	0	0	0.08	3	0.07	0.00	
KHEP(4*200)	800	792	788	0	2.39	100	2.38	0.02	
Sub Total (A)	12612	10649	8653	6781	174	7264	175	-0.46	
B. NPC	NAPS (2*220)	440	417	447	454	9.95	415	9.97	-0.02
RAPS- B (2*220)	440	194	216	215	4.61	192	4.66	-0.05	
RAPS- C (2*220)	440	418	460	465	10.07	420	10.03	0.04	
Sub Total (B)	1320	1029	1123	1134	24.63	1026	24.65	-0.03	
C. NHPC	Chamera I HPS (3*180)	540	534	418	0	1.76	73	1.60	0.16
Chamera II HPS (3*100)	300	296	295	0	0.92	39	0.90	0.02	
Chamera III HPS (3*77)	231	153	159	0	0.60	25	0.50	0.10	
Bairasuli HPS(3*60)	180	52	121	0	0.39	16	0.36	0.03	
Salal-HPS (6*115)	690	70	315	30	1.97	82	1.68	0.29	
Tanakpur-HPS (3*31.4)	94	20	31	18	0.52	22	0.47	0.05	
Uri-I HPS (4*120)	480	65	131	36	1.76	73	1.56	0.20	
Uri-II HPS (4*60)	240	46	37	37	1.13	47	1.10	0.04	
Dhauliganga-HPS (4*70)	280	277	280	0	0.86	36	0.84	0.02	
Dulhasti-HPS (3*130)	390	257	261	0	0.24	10	2.30	-2.06	
Sewa-II HPS (3*40)	120	119	93	0	0.27	11	0.36	-0.09	
Parbati 3 (4*130)	520	16	131	0	0.41	17	0.39	0.03	
Sub Total (C)	4065	1904	2271	121	11	452	12	-1.21	
D. SJVNL	NJPC (6*250)	1500	1263	1292	0	6.47	269	6.25	0.22
Rampur HEP (6*68.67)	412	344	371	0	1.79	75	1.73	0.06	
Sub Total (D)	1912	1607	1663	0	8.26	344	7.98	0.28	
E. THDC	Tehri HPS (4*250)	1000	912	913	0	7.03	293	6.92	0.12
Koteswar HPS (4*100)	400	107	201	90	2.58	108	2.56	0.02	
Sub Total (E)	1400	1019	1114	90	9.61	401	9.48	0.14	
F. BBMB	Bhakra HPS (2*108+3*126+5*157)	1379	640	1138	406	15.12	630	15.35	-0.23
Dehar HPS (6*165)	990	78	330	0	2.02	84	1.88	0.14	
Pong HPS (6*66)	396	202	264	0	4.84	202	4.84	-0.01	
Sub Total (F)	2765	920	1732	406	21.98	916	22.08	-0.10	
G. IPP(s)/JV(s)	Allain Duhangan HPS(IPP) (2*96)	192	0	0	0	0.30	13	0.29	0.01
Karcham Wantoo HPS(IPP) (4*250)	1000	0	775	0	3.41	142	3.32	0.09	
Malana Stg-II HPS (2*50)	100	0	0	0	0.19	8	0.17	0.01	
Shree Cement TPS (2*150)	300	0	147	100	3.09	129	3.08	0.01	
Budhil HPS(IPP) (2*35)	70	0	0	0	0.13	5	0.14	-0.01	
Sainj HPS (IPP) (2*50)	100	0	0	0	0.27	0.27	0.27	0.00	
Sub Total (G)	1762	0	922	100	7.12	297	7.00	0.12	
H. Total Regional Entities (A-G)	25837	17128	17478	8633	256.77	10699	258.03	-1.25	

I. State Entities	Station	Effective Installed Capacity (MW)	Peak MW	Off Peak MW	Energy(MU)	Average S entout MW)	
Punjab	Guru Gobind Singh TPS (Ropar) (6*210)	1260	160	160	3.92	163	
	Guru Nanak Dev TPS(Bhatinda) (2*110+2*120)	460	0	0	-0.01	-1	
	Guru Hargobind Singh TPS(L.mbt) (2*210+2*250)	920	374	377	8.51	355	
	Goindwal(GVK) (2*270)	540	246	145	4.77	199	
	Rajpura (2*700)	1400	1320	760	28.28	1178	
	Talwandi Saboo (3*660)	1980	1228	616	23.95	998	
	Thermal (Total)	6560	3327	2058	69.41	2892	
	Total Hydro	1000	430	206	10.79	449	
	Wind Power	0	0	0	0.00	0	
	Biomass	303	0	0	2.34	98	
	Solar	859	0	0	2.61	109	
	Renewable(Total)	1162	0	0	4.95	206	
	Total Punjab	8722	3757	2264	85.15	3548	
	Haryana	Paripat TPS (2*210+2*250)	920	228	0	3.87	161
		DCRTPP (Yamuna nagar) (2*300)	600	566	456	11.24	468
		Faridabad GPS (NTPC)(2*137.75+1*156)	432	0	0	0.00	0
RGTPP (khedar) (IPP) (2*600)		1200	1143	758	20.35	848	
Magnum Diesel (IPP)		25	0	0	0.00	0	
Jhajjar(CLP) (2*660)		1320	1228	739	26.00	1083	
Thermal (Total)		4497	3165	1953	61.46	2561	
Total Hydro		62	2	3	0.07	3	
Wind Power		0	0	0	0.00	0	
Biomass		106	0	0	0.13	6	
Solar		50	0	0	0.02	1	
Renewable(Total)		156	0	0	0.15	6	
Total Haryana		4715	3167	1956	61.68	2570	
Rajasthan		kota TPS (2*110+2*195+3*210)	1240	1030	913	24.17	1007
		suratgarh TPS (6*250)	1500	894	900	24.13	1005
		Chabra TPS (4*250)	1000	452	690	13.81	576
	Chabra TPS (1*660)	660	0	0	0.00	0	
	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	174	182	4.32	180	
	RAPS A (NPC) (1*100+1*200)	300	194	194	4.49	187	
	Barsingsar (NLC) (2*125)	250	217	223	5.12	213	
	Giral LTPS (2*125)	250	0	0	0.00	0	
	Rajwest LTPS (IPP) (8*135)	1080	707	717	17.11	713	
	VS LIGNITE LTPS (IPP) (1*135)	135	0	0	0.00	0	
	Kalisindh Thermal(2*600)	1200	1120	865	25.43	1059	
	Kawai(Adani) (2*660)	1320	0	0	0.00	0	
	Thermal (Total)	9536	4788	4684	118.56	4940	
	Total Hydro	550	111	107	3.82	159	
	Wind power	4292	891	389	14.07	586	
	Biomass	102	26	26	0.63	26	
	Solar	1995	0	0	0.00	0	
	Renewable/Others (Total)	6389	917	415	14.70	613	
	Total Rajasthan	16475	5816	5206	137.09	5712	
UP	Anpara TPS (3*210+2*500)	1630	1319	1170	33.32	1388	
	Obra TPS (2*50+2*94+5*200)	1194	446	384	10.36	432	
	Paricha TPS (2*110+2*220+2*250)	1160	894	586	16.84	701	
	Panki TPS (2*105)	210	0	0	0.00	0	
	Harduaqani TPS (1*60+1*105+2*250)	665	441	323	8.90	371	
	Tanda TPS (NTPC) (4*110)	440	289	290	6.66	278	
	Roza TPS (IPP) (4*300)	1200	587	569	15.26	636	
	Anpara-C (IPP) (2*600)	1200	1110	1101	26.38	1099	
	Bajaj Energy Pvt.Ltd(IPP) TPS (10*45)	450	189	190	4.88	203	
	Anpara-D(2*500)	1000	453	452	10.87	453	
	Lalitpur TPS(3*660)	1980	625	374	12.40	517	
	Bara(2*660)	1320	602	381	12.99	541	
	Thermal (Total)	12449	6955	5820	158.86	6619	
	Vishnuparvaq_HPS (IPP)(4*110)	440	73	68	1.68	70	
	Alakanada(4*82.5)	330	82	0	1.17	49	
	Other Hydro	527	147	72	3.65	152	
	Cogeneration	981	900	900	21.60	900	
	Wind Power	0	0	0	0.00	0	
	Biomass	26	0	0	0.00	0	
	Solar	102	0	0	2.25	94	
Renewable(Total)	128	0	0	2.25	94		
Total UP	14855	8157	6860	189.21	7884		
Uttarakhand	Other Hydro	1250	449	265	7.63	318	
	Total Gas	450	0	0	0.00	0	
	Wind Power	0	0	0	0.00	0	
	Biomass	127	0	0	0.00	0	
	Solar	100	0	0	0.61	26	
	Small Hydro (< 25 MW)	180	0	0	0.00	0	
	Renewable(Total)	407	0	0	0.61	26	
Total Uttarakhand	2107	449	265	8.24	343		
Delhi	Rajghat TPS (2*67.5)	135	0	0	0.00	0	
	Delhi Gas Turbine (6x30 + 3x34)	282	38	40	0.89	37	
	Pragati Gas Turbine (2x104+ 1x122)	330	260	270	6.49	271	
	Rithala GPS (3*36)	95	0	0	0.00	0	
	Bawana GPS (4*216+2*253)	1370	452	452	10.81	450	
	Badarpur TPS (NTPC) (3*95+2*210)	705	0	0	0.00	0	
	Thermal (Total)	2917	750	762	18.20	758	
	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	750	762	18.20	758		

HP	Baspa HPS (IPP) (3*100)	300	0	0	1.08	45
	Malana HPS (IPP) (2*43)	86	0	0	0.20	8
	Other Hydro (>25MW)	372	105	38	1.71	71
	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	88	21	1.03	43
	Renewable(Total)	486	88	21	1.03	43
	Total HP	1244	193	59	4.02	167
	Total J & K	1398	198	140	4	157
Total State Control Area Generation		52451	22487	17512	507.34	21139
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]		7019	7676	165.03	6876	6876
Total Regional Availability(Gross)		78288	46984	33820	929.14	38714

IV. Total Hydro Generation:

Regional Entities Hydro	12234	8343	617	57.11	2374
State Control Area Hydro	7468	1685	920	35.56	1550
Total Regional Hydro	19702	10027	1537	92.67	3924

V. Total Renewable Generation:

Regional Entities Renewable	30	0	0	0.10	4
State Control Area Renewable	8844	1005	436	23.70	987
Total Regional Renewable	8874	1005	436	23.80	992

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

Element	Peak(19:00 Hrs)		Maximum Interchange (MW)		Energy (MU)		Net Energy MU
	MW	Off Peak(03:00 Hrs)	Import	Export	Import	Export	
Vindhychal(HVDC B/B)	250	-150	250	150	4.07	0.98	3.09
765 KV Gwalior-Agra (D/C)	1584	1917	2304	0	48.27	0.00	48.27
400 KV Zerda-Kankroli	-215	-181	0	219	0.00	3.72	-3.72
400 KV Zerda-Bhimnal	-207	-98	138	246	0.00	1.90	-1.90
220 KV Auraja-Malanpur	-194	-69	0	248	0.00	2.78	-2.78
220 KV Badod-Kota/Morak	-87	-72	32	32	0.00	1.10	-1.10
Mundra-Mohindergarh(HVDC Bipole)	802	598	1204	0	19.97	0.00	19.97
400 KV RAPPCC-Sujalpur	200	160	402	0	4.80	0.00	4.80
400 KV Vindhychal-Rihand	949	806	0	962	0.00	22.36	-22.36
765 kV Phagi-Gwalior (D/C)	905	1179	1484	0	29.78	0.00	29.78
+/- 800 kV HVDC Champa-Kurushetra	1500	2000	2500	0	40.05	0	40.05
Sub Total WR	5487	6090			146.93	32.83	114.10
400 kV Sasaram - Varanasi	168	155	177	0	3.82	0.00	3.82
400 kV Sasaram - Allahabad	73	93	126	0	2.26	0.00	2.26
400 KV MZP- GKP (D/C)	209	259	570	0	7.51	0.00	7.51
400 KV Patna-Balia(D/C) X 2	561	647	925	0	15.96	0.00	15.96
400 KV B'Sharif-Balia (D/C)	90	119	306	0	3.95	0.00	3.95
765 KV Gaya-Balia	187	157	299	0	4.95	0.00	4.95
765 KV Gaya-Varanasi (D/C)	217	245	610	0	8.78	0.00	8.78
220 KV Pusauli-Sahupuri	0	0	0	0	0.00	0.00	0.00
132 KV K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
132 KV Son Ngr-Rihand	-37	-20	0	41	0.00	0.51	-0.51
132 KV Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
765 KV Sasaram - Fatehpur	-79	-10	209	79	1.19	0.00	1.19
400 KV Motihari -GKP (D/C)	106	264	310	0	4.73	0.00	4.73
400 kV B'Sharif - Varanasi (D/C)	37	-23	217	38	1.55	0.00	1.55
+/- 800 KV HVDC Alipurduar-Agra	0	0	0	0	0.00	0.00	0.00
Sub Total ER	1532	1886			54.70	0.51	54.19
+/- 800 KV HVDC BiswanathChariali-Agra	0	-300	0	300.00	0.00	3.26	-3.26
Sub Total NER	0	-300			0.00	3.26	-3.26
Total IR Exch	7019	7676			201.63	36.60	165.03

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
46.87	0.24	47.11	-4.10	-30.76	13.02	1.67	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
56.03	117.96	173.99	50.93	114.10	165.03	-5.10	-3.86	-8.96

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

Element	Peak(19:00 Hrs)		Maximum Interchange (MW)		Energy (MU)		Net Energy MU
	MW	Off Peak(03:00 Hrs)	Import	Export	Import	Export	
132 KV Tanakpur - Mahendarnagar	-34	-34	0	39	0	1	-0.81

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	0.27	1.60	10.23	60.02	75.98	10.15	3.55	0.57	0.00

Frequency (Hz)				Average Frequency	Frequency Variation Index	Std. Dev.	Frequency in 15 Min Block		Freq Dev Index (% of Time)
Maximum		Minimum					MAX	MIN	
Freq	Time	Freq	Time	Hz	Index		(Hz)	(Hz)	
50.29	21.59	49.62	20.48	49.98	0.055	0.072	50.18	49.81	24.02

VIII(A). Voltage profile 400 kV

Station	Voltage Level (kV)	Maximum		Minimum		Voltage (in % of Time)			Voltage Deviation Index
		Voltage(KV)	Time	Voltage (KV)	Time	<380 kV	>420 kV	>430 kV	
Rihand	400	404	3:03	399	9:17	0.0	0.0	0.0	0.0
Gorakhpur	400	417	3:03	397	19:04	0.0	0.0	0.0	0.0
Bareilly(PG)400kV	400	421	2:56	403	9:14	0.0	0.0	0.8	0.0
Kanpur	400	421	13:03	406	9:15	0.0	0.0	0.1	0.0
Dadri	400	426	4:00	408	18:27	0.0	0.0	26.6	0.0
Ballabgarh	400	425	4:01	406	9:16	0.0	0.0	19.6	0.0
Bawana	400	427	3:59	406	18:27	0.0	0.0	30.7	0.0
Bassi	400	425	4:00	400	6:12	0.0	0.0	6.0	0.0
Hissar	400	420	3:02	400	18:27	0.0	0.0	0.0	0.0
Moga	400	421	2:59	402	18:27	0.0	0.0	0.8	0.0
Abdullapur	400	427	2:59	405	18:38	0.0	0.0	37.9	0.0
Nalagarh	400	431	23:58	409	18:25	0.0	0.0	42.2	0.0
Kishenpur	400	420	2:28	402	18:42	0.0	0.0	0.0	0.0
Wagoora	400	404	12:40	382	10:55	0.0	52.8	0.0	0.0
Amritsar	400	429	3:03	409	18:24	0.0	0.0	35.5	0.0
Kashipur	400	0	0:00	0	0:00	0.0	0.0	0.0	0.0
Hamirpur	400	422	0:00	401	18:28	0.0	0.0	6.9	0.0
Rishikesh	400	418	13:01	393	9:18	0.0	0.0	0.0	0.0

VIII(B). Voltage profile 765 kV

Station	Voltage Level (kV)	Maximum		Minimum		Voltage (in % of Time)			Voltage Deviation Index
		Voltage(KV)	Time	Voltage (KV)	Time	<728 kV	>742 kV	>820 kV	
Fatehpur	765	787	13:03	744	6:11	0.0	0.0	0.0	0.0
Balia	765	787	3:03	758	10:38	0.0	0.0	0.0	0.0
Moga	765	806	13:01	759	18:27	0.0	0.0	1.7	0.0
Agra	765	801	13:02	764	6:09	0.0	0.0	0.3	0.0
Bhiwani	765	810	13:01	775	18:36	0.0	0.0	15.6	0.0
Unnao	765	775	3:02	746	10:38	0.0	0.0	0.0	0.0
Lucknow	765	795	4:00	763	10:26	0.0	0.0	0.0	0.0
Meerut	765	818	13:01	771	18:27	0.0	0.0	18.5	0.0
Jhatikara	765	810	13:03	776	9:17	0.0	0.0	17.4	0.0
Bareilly 765 kV	765	801	2:59	767	9:18	0.0	0.0	0.7	0.0
Anta	765	798	4:00	768	6:11	0.0	0.0	0.0	0.0
Phagi	765	801	3:59	769	6:12	0.0	0.0	4.0	0.0

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	491.83	798.09	482.24	511.55	158.29	456.72
Pong	426.72	384.05	405.93	370.28	404.92	336.10	47.43	331.00
Tehri	829.79	740.04	795.45	536.11	795.05	529.87	39.28	177.00
Koteshwar	612.50	598.50	610.61	4.87	610.19	4.69	177.00	170.30
Chamera-I	760.00	748.75	756.48	0.00	0.00	0.00	36.73	47.28
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	496.60	2.82	503.48	1.64	54.30	124.89

* 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	-1483	0	0	-1483	-205	0	-36.58	-1.75	-38.33
Delhi	-891	-562	0	-745	-175	0	-19.14	-3.81	-22.95
Haryana	-473	179	0	-842	119	0	-20.63	1.88	-18.75
HP	411	110	0	391	81	0	12.72	-0.34	12.38
J&K	797	68	0	797	225	0	18.77	3.34	22.11
CHD	-31	0	0	-31	0	0	-0.37	-0.10	-0.47
Rajasthan	-96	169	0	-96	89	0	-0.74	9.46	8.72
UP	48	-71	0	72	-66	0	0.87	-1.62	-0.75
Uttarakhand	410	259	0	410	533	0	9.96	8.09	18.06
Total	-1308	152	0	-1527	603	0	-35.14	15.16	-19.97

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

State	Bilateral (MW)		IEX (MW)		PXIL (MW)	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Punjab	-1473	-1586	0	-460	0	0
Delhi	-597	-911	392	-570	0	0
Haryana	-473	-1302	182	-500	0	0
HP	805	261	281	-579	0	0
J&K	797	768	450	-425	0	0
CHD	0	-31	15	-72	0	0
Rajasthan	61	-96	1873	0	0	0
UP	84	-61	-66	-71	0	0
Uttarakhand	467	410	559	127	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	0.00%
ER	0.00%
Simultaneous	0.00%

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

WR	0.00%
ER	0.00%
Simultaneous	0.00%

(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	22
Haryana	2	23
Rajasthan	2	16
Delhi	4	32
UP	0	8
Uttarakhand	6	73
HP	3	23
J & K	2	24
Chandigarh	4	36

XIII. System Constraints:**XIV. Grid Disturbance / Any Other Significant Event:****XV. Weather Conditions For 31.01.2018 :****XVI. Synchronisation of new generating units :****XVII. Synchronisation of new 220 / 400 / 765 KV lines and energising of bus / substation :**

1. Bay no 419, 420, 422, 423 at 400kV GSS Bhadreki Orai (UPPTCL) first time charged at 1711Hrs, 1740Hrs, 1830 Hrs, 1858Hrs respectively on 31.01.18.
2. 315MVA ICT-2 at 400kV GSS Muzaffarnagar first time charged at no-load from 400kV Side at 1949Hrs of 31.01.18.

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 : 31.01.2018

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER