

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(भारत सरकार का उद्यम)

उत्तरी क्षेत्रीय भार प्रेषण केंद्र

CIN: U40105DL2009GOI188682

Power Supply Position in Northern Region for 13.03.2017

Date of Reporting : 14.03.2017



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
31030	467	31496	49.95	26019	400	26419	50.02	700.97	10.47

* 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	15.18	7.19	0.38	22.75	44.55	42.83	-1.72	65.58	0.00
Haryana	3.74	0.40	0.00	4.14	80.36	83.01	2.65	87.15	0.00
Rajasthan	84.26	3.95	5.85	94.05	56.39	59.63	3.25	153.68	0.00
Delhi	7.62		0.00	7.62	36.73	35.76	-0.97	43.38	0.00
UP	152.58	3.68	0.00	156.26	107.38	108.68	1.30	264.94	0.00
Uttarakhand		7.25	0.00	7.83	14.50	14.56	0.06	22.39	0.00
HP		5.16	2.21	5.16	14.20	14.11	-0.09	19.27	0.00
J & K		7.53	0.00	7.53	34.65	34.35	-0.30	41.88	10.47
Chandigarh				0.00	3.16	2.70	-0.46	2.70	0.00
Total	263.38	35.15	8.44	305.34	391.92	395.64	3.71	700.97	10.47

* Shortage furnished by the respective constituent's 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	3030	0	36	-57	2642	0	-113	-57	3487	8:00	0
Haryana	4327	0	-378	-145	2513	0	108	-302	5120	7:00	0
Rajasthan	5701	0	-74	228	6369	0	136	288	7796	8:00	0
Delhi	1935	0	-197	-272	1313	0	-65	-622	2339	15:00	0
UP	12008	0	148	-68	9942	0	150	81	13202	20:00	0
Uttarakhand	1218	0	243	148	873	0	-75	158	1254	8:00	0
HP	801	0	-4	-154	690	0	-15	385	1046	9:00	0
J&K	1866	467	97	431	1602	400	-4	324	1979	20:00	495
Chandigarh	144	0	-40	-30	76	0	-24	0	146	8:00	0
Total	31030	467	-170	81	26019	400	98	254	34178	20:00	495

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

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	
								Net MU	Net MU
A. NTPC									
Singrauli STPS (5*200+2*500)	2000	1863	1761	1559	39.09	1629	39.16	-0.07	
Rihand I STPS (2*500)	1000	973	686	728	16.92	705	17.16	-0.25	
Rihand II STPS (2*500)	1000	973	685	706	17.62	734	17.92	-0.30	
Rihand III STPS (2*500)	1000	973	710	726	18.01	750	18.30	-0.29	
Dadri I STPS (4*210)	840	815	152	150	3.51	146	3.67	-0.16	
Dadri II STPS (2*490)	980	980	355	333	7.84	327	8.19	-0.35	
Unchahar I TPS (2*210)	420	407	283	282	6.12	255	6.83	-0.71	
Unchahar II TPS (2*210)	420	405	262	265	5.70	237	6.63	-0.93	
Unchahar III TPS (1*210)	210	203	134	145	3.02	126	3.27	-0.25	
ISTPP (Jhajjar) (3*500)	1500	1440	609	616	13.95	581	13.85	0.09	
Dadri GPS (4*130.19+2*154.51)	830	0	0	0	0.00	0	0.00	0.00	
Anta GPS (3*88.71+1*153.2)	419	411	261	229	4.95	206	4.92	0.03	
Auraiya GPS (4*111.19+2*109.30)	663	644	146	146	3.18	133	3.30	-0.12	
Dadri Solar(5)	5	1	0	0	0.00	0	0.03	-0.03	
Unchahar Solar(10)	10	2	0	0	0.05	2	0.04	0.00	
Singrauli Solar(15)	15	0	0	0	0.00	0	0.00	0.00	
KHEP(4*200)	800	872	867	586	2.56	107	2.62	-0.06	
Sub Total (A)	12112	10962	6911	6471	143	5938	146	-3.37	
B. NPC									
NAPS (2*220)	440	420	447	458	10.04	418	10.08	-0.04	
RAPS- B (2*220)	440	383	428	430	9.24	385	9.19	0.05	
RAPS- C (2*220)	440	405	443	454	9.68	403	9.72	-0.04	
Sub Total (B)	1320	1208	1318	1342	28.96	1207	28.99	-0.03	
C. NHPC									
Chamera I HPS (3*180)	540	540	552	0	3.37	140	3.23	0.14	
Chamera II HPS (3*100)	300	301	312	0	1.32	55	1.20	0.12	
Chamera III HPS (3*77)	231	0	0	0	0.00	0	0.00	0.00	
Bairasuli HPS(3*60)	180	179	183	0	1.55	65	1.50	0.05	
Salal-HPS (6*115)	690	205	345	290	5.43	226	4.91	0.52	
Tanakpur-HPS (3*31.4)	94	22	32	21	0.52	22	0.53	0.00	
Uri-I HPS (4*120)	480	452	474	478	11.08	462	10.86	0.23	
Uri-II HPS (4*60)	240	235	234	245	5.75	240	5.64	0.12	
Dhauliganga-HPS (4*70)	280	140	0	0	0.81	34	0.76	0.05	
Dulhasti-HPS (3*130)	390	387	404	0	2.40	100	2.40	0.00	
Sewa-II HPS (3*40)	120	119	128	0	2.22	92	2.20	0.02	
Parbati 3 (4*130)	520	130	134	0	0.28	12	0.26	0.02	
Sub Total (C)	4065	2710	2798	1034	35	1447	33	1.26	
D.SJVNL									
NJPC (6*250)	1500	1605	1614	0	6.11	255	6.17	-0.06	
Rampur HEP (6*88.67)	412	375	374	0	1.60	67	1.61	0.00	
Sub Total (D)	1912	1980	1988	0	7.72	322	7.78	-0.06	
E. THDC									
Tehri HPS (4*250)	1000	756	0	0	4.47	186	4.46	0.01	
Koteshwar HPS (4*100)	400	133	73	91	2.48	103	2.48	0.00	
Sub Total (E)	1400	889	73	91	6.95	290	6.94	0.01	
F. BBMB									
Bhakra HPS (2*108+3*126+5*157)	1379	432	935	313	10.67	444	10.37	0.30	
Dehar HPS (6*165)	990	141	495	0	3.39	141	3.39	0.00	
Pong HPS (6*66)	396	149	285	0	3.47	144	3.58	-0.12	
Sub Total (F)	2765	723	1715	313	17.52	730	17.34	0.17	
G. IPP(s)/JV(s)									
ALLAIN DUHANGAN HPS(IPP) (2*96)	192	0	0	0	0.31	13	0.30	0.01	
KARCHAM WANGTOO HPS(IPP) (4*250)	1000	0	620	0	3.31	138	3.53	-0.23	
Malana Stg-II HPS (2*50)	100	0	0	0	0.16	7	0.16	0.00	
Shree Cement TPS (2*150)	300	0	100	121	2.52	105	2.64	-0.11	
Budhil HPS(IPP) (2*35)	70	0	0	0	0.19	8	0.19	0.00	
Sub Total (G)	1662	0	720	121	6.49	271	6.82	-0.33	
H. Total Regional Entities (A-G)	25237	18472	15522	9372	244.89	10204	247.23	-2.35	

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	-0.12	-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	-0.07	-3
	Goidwal(GVK) (2*270)	540	0	0	-0.02	-1

	Rajpura (2*700)	1400	660	660	15.61	651
	Talwandi Saboo (3*660)	1980	0	0	-0.22	-9
	Thermal (Total)	6560	660	660	15.18	632
	Total Hydro	1000	577	165	7.19	300
	Wind Power	0	0	0	0.00	0
	Biomass	288	0	0	0.30	12
	Solar	560	0	0	0.08	3
	Renewable(Total)	848	0	0	0.38	16
	Total Punjab	8408	1237	825	22.75	948
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	155	161	3.74	156
	RGTPP (khedar) (IPP) (2*600)	1200	0	0	0.00	0
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP) (2*660)	1320	0	0	0.00	0
	Thermal (Total)	4497	155	161	3.74	156
	Total Hydro	62	9	10	0.40	17
	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	164	171	4.14	173
Rajasthan	kota TPS (2*110+2*195+3*210)	1240	309	305	7.47	311
	suratgarh TPS (6*250)	1500	182	182	4.31	179
	Chabra TPS (4*250)	1000	694	759	17.95	748
	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	176	177	4.51	188
	RAPS A (NPC) (1*100+1*200)	300	194	194	4.12	172
	Barsingar (NLC) (2*125)	250	174	187	4.33	180
	Giral LTPS (2*125)	250	0	0	0.00	0
	Rajwest LTPS (IPP) (8*135)	1080	345	332	9.33	389
	VS LIGNITE LTPS (IPP) (1*135)	135	0	0	0.00	0
	Kalisindh Thermal(2*600)	1200	797	820	20.28	845
	Kawai(Adani) (2*660)	1320	453	457	11.97	499
	Thermal (Total)	8876	3324	3413	84.26	3511
	Total Hydro	550	156	117	3.95	164
	Wind power	4017	119	362	4.89	204
	Biomass	99	18	18	0.42	18
	Solar	1295	10	0	0.53	22
	Renewable/Others (Total)	5411	147	380	5.85	244
	Total Rajasthan	14837	3627	3910	94.05	3919
UP	Anpara TPS (3*210+2*500)	1630	1423	1076	31.03	1293
	Obra TPS (2*50+2*94+5*200)	1194	603	543	13.42	559
	Paricha TPS (2*110+2*220+2*250)	1160	175	158	4.16	173
	Panki TPS (2*105)	210	0	0	0.00	0
	Harduaqanj TPS (1*60+1*105+2*250)	665	176	160	4.22	176
	Tanda TPS (NTPC) (4*110)	440	364	302	7.70	321
	Roza TPS (IPP) (4*300)	1200	0	0	0.00	0
	Anpara-C (IPP) (2*600)	1200	936	648	20.94	873
	Bajaj Energy Pvt.Ltd(IPP) TPS (10*45)	450	0	0	0.00	0
	Anpara-D(2*500)	1000	842	708	19.05	794
	Lalitpur TPS(3*660)	1980	495	358	10.26	428
	Bara(2*660)	1320	731	721	21.40	892
	Thermal (Total)	12449	5745	4674	132.18	5507
	Vishnuparyag HPS (IPP)(4*110)	440	63	63	1.48	62
	Alaknada(4*82.5)	330	76	0	0.96	40
	Other Hydro	527	52	18	1.24	52
	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	6786	5605	156.26	6511
	Uttarakhand	Other Hydro	1250	497	285	7.25
Total Gas		225	0	103	0.58	24
Wind Power		0	0	0	0.00	0
Biomass		127	0	0	0.00	0
Solar		20	0	0	0.00	0
Small Hydro (< 25 MW)		180	0	0	0.00	0
Renewable(Total)		327	0	0	0.00	0
Total Uttarakhand		1802	497	388	7.83	326
Delhi	Rajghat TPS (2*67.5)	135	0	0	0.00	0
	Delhi Gas Turbine (6x30 + 3x34)	282	38	71	1.66	69
	Pragati Gas Turbine (2x104+ 1x122)	330	0	0	-0.04	-2
	Rithala GPS (3*36)	95	0	0	0.00	0
	Bawana GPS (4*216+2*253)	1370	99	156	6.00	250
	Badarpur TPS (NTPC) (3*95+2*210)	705	0	0	0.00	0
	Thermal (Total)	2917	137	227	7.62	318
	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	137	227	7.62	318	
HP	Baspa HPS (IPP) (3*100)	300	72	0	0.87	36
	Malana HPS (IPP) (2*43)	86	0	0	0.18	8
	Other Hydro	372	78	44	1.89	79
	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	116	55	2.21	92
	Renewable(Total)	486	116	55	2.21	92
	Total HP	1244	266	99	5.16	215
	J & K	Baqilhar HPS (IPP) (3*150+3*150)	900	293	145	4.66
Other Hydro/IPP(including 98 MW Small Hydro)		308	136	120	2.86	119
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	429	265	8	314	

Total State Control Area Generation	50078	13143	11490	305.34	12722
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]		7376.92	7342.02	166.45	6936
Total Regional Availability(Gross)	75315	36042	28203	716.68	29861

IV. Total Hydro Generation:

Regional Entities Hydro	12234	8060	2024	73.27	3053
State Control Area Hydro	7163	2125	1125	35.15	1489
Total Regional Hydro	19397	10185	3148	108.42	4542

V. Total Renewable Generation:

Regional Entities Renewable	30	0	0	0.05	2
State Control Area Renewable	7356	263	435	8.44	352
Total Regional Renewable	7386	263	435	8.49	354

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)	500	500	0	-500	0.00	12.18	-12.18
765 KV Gwalior-Agra (D/C)	1727	1738	2485	0	44.42	0.00	44.42
400 KV Zerda-Kankroli	-75	-118	17	151	0.00	1.60	-1.60
400 KV Zerda-Bhimnal	41	-31	104	78	0.30	0.00	0.30
220 KV Auraiya-Malanpur	-97	-102	0	126	0.00	2.10	-2.10
220 KV Badod-Kota/Morak	-48	-40	43	50	0.00	0.22	-0.22
Mundra-Mohinderghar(HVDC Bipole)	1102	799	1104	0.00	21.81	0.00	21.81
400 KV RAPP-Subalpur	154	110	238	0	3.69	0.00	3.69
400 KV Vindhychal-Rihand	0	0	0	0	0.00	0.00	0.00
765 kV Phagi-Gwalior (D/C)	593	975	1363	0	23.46	0.00	23.46
+/- 800 kV HVDC Champa-Kurushetra	1500	1500	1500	0	36.31	0.00	36.31
Sub Total WR	5397	5331			129.98	16.10	113.88
400 kV Sasaram - Varanasi	316	282	316	0	10.77	0.00	10.77
400 kV Sasaram - Allahabad	88	104	123	0	2.39	0.00	2.39
400 KV MZP- GKP (D/C)	69	259	354	0	3.93	0.00	3.93
400 KV Patna-Balia(D/C) X 2	610	404	678	0	14.24	0.00	14.24
400 KV B'Sharif-Balia (D/C)	6	76	150	0	1.49	0.00	1.49
765 KV Gaya-Balia	220	192	284	0	5.07	0.00	5.07
765 KV Gaya-Varanasi (D/C)	157	248	479	0	6.49	0.00	6.49
220 KV Pusauli-Sahupuri	191	182	201	0	4.16	0.00	4.16
132 KV K'nasa-Sahupuri	0	0	0	0	0.48	0.00	0.48
132 KV Son Ngr-Rihand	-27	-25	0	-28	0.00	-0.62	0.62
132 KV Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
765 KV Sasaram - Fatehpur	-296	-201	0	296	0.00	4.88	-4.88
400 KV Barh -GKP (D/C)	456	432	512	0	10.05	0.00	10.05
400 kV B'Sharif - Varanasi (D/C)	190	58	15	204	0.00	2.22	-2.22
Sub Total ER	1980	2011			59.06	6.49	52.57
+/- 800 KV HVDC BiswanathCharialli-Agra	0	0	0	0.00	0.00	0.00	0.00
Sub Total NER	0	0			0.00	0.00	0.00
Total IR Exch	7377	7342			189.04	22.59	166.45

VI(B). Inter Regional Schedule & Actual Exchanges [Import (+ve)/Export (-ve)] [Corridor wise]

ER	ISGS/LT Schedule (MU)		Bilateral Schedule (MU)		Power Exchange Shdl (MU)		Wheeling (MU)	
	Bhutan	Total	Through ER	Through WR	Through ER	Through WR	Through ER	Through WR
40.52	0.22	40.75	-2.56	-0.39	-1.33	5.43	0.00	0.00

Total IR Schedule (MU)			Total IR Actual (MU)			Net IR UI (MU)		
Through ER	Through WR Incls Mndra	Total	Through ER(including NER)	Through WR	Total	Through ER (including NER)	Through WR	Total
36.86	123.46	160.31	52.57	113.88	166.45	15.71	-9.57	6.14

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	-36	-35	0	35	0	1	-0.52

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	0.50	25.58	63.02	28.33	7.93	0.39	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)		
50.34	18.03	49.86	18.48	50.03	0.038	0.052	50.16	49.96	36.98

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	410	18:10	403	6:02	0.0	0.0	0.0	0.0	0.0
Gorakhpur	400	420	23:40	402	18:58	0.0	0.0	0.0	0.0	0.0
Bareilly(PG)400kV	400	422	2:58	393	10:50	0.0	0.0	6.5	0.0	6.5
Kanpur	400	0	0:00	0	0:00	100.0	100.0	0.0	0.0	100.0
Dadri	400	432	2:33	416	19:21	0.0	0.0	90.2	8.2	90.2
Ballabgarh	400	428	2:48	411	19:22	0.0	0.0	54.2	0.0	54.2
Bawana	400	431	3:27	414	18:59	0.0	0.0	77.5	0.4	77.5
Bassi	400	428	18:03	406	6:41	0.0	0.0	36.3	0.0	36.3
Hissar	400	424	0:22	407	18:58	0.0	0.0	20.8	0.0	20.8
Moga	400	425	3:57	407	18:50	0.0	0.0	27.5	0.0	27.5
Abdullapur	400	429	23:27	408	18:48	0.0	0.0	73.3	0.0	73.3
Nalagarh	400	435	23:31	416	18:47	0.0	0.0	91.0	33.7	91.0
Kishenpur	400	417	2:58	399	18:55	0.0	0.0	0.0	0.0	0.0
Wagoora	400	389	16:29	363	7:22	79.2	100.0	0.0	0.0	79.2
Amritsar	400	429	3:02	409	18:56	0.0	0.0	71.6	0.0	71.6
Kashipur	400	0	0:00	0	0:00	0.0	0.0	0.0	0.0	0.0
Hamirpur	400	0	0:00	0	0:00	0.0	0.0	0.0	0.0	0.0
Rishikesh	400	427	23:27	407	12:38	0.0	0.0	33.3	0.0	33.3

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	780	23:57	742	19:10	0.0	0.0	0.0	0.0	0.0
Balia	765	791	23:52	760	19:19	0.0	0.0	0.0	0.0	0.0

Moga	765	804	23:28	773	19:09	0.0	0.0	8.9	0.0	8.9
Agra	765	792	4:00	763	19:10	0.0	0.0	0.0	0.0	0.0
Bhiwani	765	814	3:01	787	19:09	0.0	0.0	56.4	0.0	56.4
Unnao	765	775	23:45	740	19:17	0.0	1.0	0.0	0.0	0.0
Lucknow	765	797	23:53	761	19:20	0.0	0.0	0.0	0.0	0.0
Meerut	765	804	3:59	768	19:10	0.0	0.0	10.0	0.0	10.0
Jhatikara	765	811	3:27	780	19:18	0.0	0.0	40.3	0.0	40.3
Bareilly 765 kV	765	803	23:56	765	19:09	0.0	0.0	7.0	0.0	7.0
Anta	765	804	17:18	782	6:45	0.0	0.0	9.4	0.0	9.4
Phagi	765	0	0:00	0	0:00	100.0	100.0	0.0	0.0	100.0

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	469.60	262.21	482.71	527.87	147.16	341.73
Pong	426.72	384.05	398.00	179.94	397.45	168.56	59.35	258.84
Tehri	829.79	740.04	772.75	238.00	764.30	157.03	39.29	128.00
Koteshwar	612.50	598.50	608.74	3.98	611.07	4.95	128.00	163.39
Chamera-I	760.00	748.75	757.58	0.00	0.00	0.00	91.40	113.39
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	505.06	1.60	497.50	0.00	144.69	108.06

* 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	-57	0	0	-57	0	0	-1.59	0.14	-1.45
Delhi	-343	-279	0	-241	-31	0	-5.08	-3.77	-8.85
Haryana	-515	213	0	-221	76	0	-7.80	2.53	-5.27
HP	272	113	0	150	-304	0	6.99	-2.54	4.45
J&K	274	50	0	258	173	0	6.47	3.03	9.50
CHD	0	0	0	0	-30	0	0.00	-0.14	-0.14
Rajasthan	27	261	0	34	194	0	0.69	5.04	5.73
UP	81	0	0	-68	0	0	-3.09	-0.12	-3.22
Uttarakhand	73	85	0	73	76	0	1.91	1.78	3.68
Total	-188	442	0	-73	154	0	-1.51	5.95	4.44

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

State	Bilateral (MW)		IEX (MW)		PXIL (MW)	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Punjab	-57	-82	15	0	0	0
Delhi	-134	-350	-12	-290	0	0
Haryana	-221	-515	214	61	0	0
HP	394	150	113	-872	0	0
J&K	274	258	272	-76	0	0
CHD	0	0	0	-45	0	0
Rajasthan	34	21	261	182	0	0
UP	102	-340	0	-100	0	0
Uttarakhand	104	73	265	-143	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	4	59
Haryana	2	14
Rajasthan	2	17
Delhi	4	22
UP	2	22
Uttarakhand	2	15
HP	1	18
J & K	3	30
Chandigarh	4	36

XIII. System Constraints:

XIV. Grid Disturbance / Any Other Significant Event:

XV. Weather Conditions For 13.03.2017 :

XVI. Synchronisation of new generating units :

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

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 : 13.03.2017

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER