

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(भारत सरकार का उद्यम)

उत्तरी क्षेत्रीय भार प्रेषण केंद्र

CIN: U40105DL2009GOI188682

Power Supply Position in Northern Region for 21.02.2017

Date of Reporting : 22.02.2017



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
41416	1036	42452	49.95	31565	405	31970	50.02	893.82	13.80

* 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	45.95	9.01	0.21	55.17	58.39	59.29	0.90	114.45	0.00
Haryana	25.41	0.27	0.00	25.68	95.60	96.05	0.44	121.73	0.00
Rajasthan	117.03	4.44	12.96	134.43	71.97	76.31	4.34	210.73	3.00
Delhi	11.68		0.00	11.68	50.03	49.54	-0.49	61.22	0.00
UP	171.98	4.40	0.00	176.38	102.78	104.48	1.70	280.86	0.00
Uttarakhand		9.26	0.00	15.81	17.58	16.59	-1.00	32.40	0.00
HP		6.88	3.61	6.88	18.20	19.05	0.85	25.93	0.00
J & K		9.98	0.00	9.98	33.04	33.24	0.20	43.22	10.80
Chandigarh				0.00	3.60	3.29	-0.31	3.29	0.00
Total	372.04	44.24	16.78	435.99	451.19	457.82	6.63	893.82	13.80

* 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	6245	0	127	-399	3414	0	102	-503	6245	19:00	0
Haryana	5738	0	-63	-8	3452	0	11	-336	6233	7:00	0
Rajasthan	8256	521	355	308	8473	0	187	356	10132	8:00	0
Delhi	2941	0	-155	-298	1593	0	-53	-783	3309	12:00	0
UP	13066	0	92	-127	11103	0	45	107	13066	19:00	0
Uttarakhand	1736	0	17	157	1093	0	-126	193	1736	19:00	0
HP	1198	0	76	82	733	0	-2	431	1399	8:00	0
J&K	2061	515	76	578	1621	405	-30	423	2098	20:00	524
Chandigarh	175	0	-21	-20	83	0	-14	-20	186	8:00	0
Total	41416	1036	505	273	31565	405	119	-132	41802	20:00	813

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

Diversity is 1.06

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

III. Regional Entities :

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	1677	1786	1813	40.20	1675	40.00	0.19
Rihand I STPS (2*500)	1000	484	452	458	10.37	432	10.35	0.02
Rihand II STPS (2*500)	1000	960	819	733	20.26	844	19.90	0.36
Rihand III STPS (2*500)	1000	965	898	801	20.63	860	20.76	-0.12
Dadri I STPS (4*210)	840	815	330	296	7.27	303	7.76	-0.49
Dadri II STPS (2*490)	980	980	461	355	9.59	400	10.23	-0.64
Unchahar I TPS (2*210)	420	407	337	294	7.09	295	7.50	-0.41
Unchahar II TPS (2*210)	420	405	328	291	6.79	283	6.98	-0.19
Unchahar III TPS (1*210)	210	203	167	146	3.34	139	3.51	-0.17
ISTPP (Jhajjar) (3*500)	1500	1440	642	612	15.38	641	15.65	-0.26
Dadri GPS (4*130.19+2*154.51)	830	615	0	0	0.00	0	0.17	-0.17
Anta GPS (3*88.71+1*153.2)	419	416	265	-1	2.52	105	2.59	-0.06
Auraiya GPS (4*111.19+2*109.30)	663	642	142	158	3.31	138	3.34	-0.03
Dadri Solar(5)	5	1	0	0	0.02	1	0.02	0.00
Unchahar Solar(10)	10	2	0	0	0.05	2	0.05	0.00
Singrauli Solar(15)	15	2	0	0	0.07	3	0.06	0.01
KHEP(4*200)	800	759	872	655	2.29	96	2.29	0.00
Sub Total (A)	12112	10773	7499	6611	149	6216	151	-1.97
B. NPC								
NAPS (2*220)	440	408	451	450	9.80	408	9.79	0.01
RAPS- B (2*220)	440	381	423	427	9.22	384	9.14	0.07
RAPS- C (2*220)	440	395	445	441	9.53	397	9.48	0.04
Sub Total (B)	1320	1184	1319	1318	28.54	1189	28.42	0.13
C. NHPC								
Chamera I HPS (3*180)	540	548	551	0	6.33	264	6.00	0.33
Chamera II HPS (3*100)	300	301	303	29	2.08	87	1.94	0.15
Chamera III HPS (3*77)	231	0	0	0	0.00	0	0.00	0.00
Bairasuli HPS(3*60)	180	179	185	103	2.97	124	2.82	0.16
Salal-HPS (6*115)	690	398	555	400	10.60	442	9.55	1.05
Tanakpur-HPS (3*31.4)	94	17	31	15	0.51	21	0.41	0.10
Uri-I HPS (4*120)	480	452	360	469	10.65	444	10.84	-0.20
Uri-II HPS (4*60)	240	240	245	242	5.79	241	5.76	0.03
Dhauliganga-HPS (4*70)	280	140	142	0	0.99	41	0.90	0.10
Dulhasti-HPS (3*130)	390	387	402	0	4.15	173	4.00	0.15
Sewa-II HPS (3*40)	120	119	128	121	2.97	124	2.87	0.10
Parbati 3 (4*130)	520	130	130	0	0.40	17	0.39	0.01
Sub Total (C)	4065	2911	3031	1379	47	1976	45	1.97
D.SJVNL								
NJPC (6*250)	1500	1096	1066	0	6.46	269	6.50	-0.04
Rampur HEP (6*68.67)	412	306	221	0	1.69	70	1.69	-0.01
Sub Total (D)	1912	1402	1287	0	8.15	339	8.19	-0.05
E. THDC								
Tehri HPS (4*250)	1000	848	838	0	8.91	371	8.95	-0.04
Koteshwar HPS (4*100)	400	146	401	91	3.51	146	3.50	0.01
Sub Total (E)	1400	994	1239	91	12.42	518	12.45	-0.03
F. BBMB								
Bhakra HPS (2*108+3*126+5*157)	1379	489	1113	361	12.17	507	11.74	0.43
Dehar HPS (6*165)	990	239	330	0	5.89	245	5.74	0.15
Pong HPS (6*66)	396	226	305	0	5.42	226	5.43	-0.01
Sub Total (F)	2765	955	1748	361	23.48	978	22.91	0.57
G. IPP(s)/JV(s)								
ALLAIN DUHANGAN HPS(IPP) (2*96)	192	0	0	0	0.48	20	0.46	0.02
KARCHAM WANGTOO HPS(IPP) (4*250)	1000	0	630	0	3.51	146	3.53	-0.02
Malana Stg-II HPS (2*50)	100	0	0	0	0.21	9	0.19	0.01
Shree Cement TPS (2*150)	300	0	294	168	6.06	252	6.03	0.03
Budhil HPS(IPP) (2*35)	70	0	0	0	0.00	0	0.00	0.00
Sub Total (G)	1662	0	924	168	10.25	427	10.21	0.05
H. Total Regional Entities (A-G)	25237	18219	17047	9928	279.46	11644	278.79	0.67

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	-0.10	-4
	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	-0.09	-4
	Goidwal(GVK) (2*270)	540	0	0	-0.03	-1

	Rajpura (2*700)	1400	1320	660	25.42	1059
	Talwandi Saboo (3*660)	1980	927	616	20.76	865
	Thermal (Total)	6560	2247	1276	45.95	1915
	Total Hydro	1000	491	226	9.01	375
	Wind Power	0	0	0	0.00	0
	Biomass	288	0	0	0.15	6
	Solar	560	0	0	0.06	2
	Renewable(Total)	848	0	0	0.21	9
	Total Punjab	8408	2738	1502	55.17	2299
Haryana	Panipat TPS (2*210+2*250)	920	423	418	10.59	441
	DCRTPP (Yamuna nagar) (2*300)	600	495	457	12.14	506
	Faridabad GPS (NTPC)(2*137.75+1*156)	432	0	166	2.68	112
	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	918	1041	25.41	1059
	Total Hydro	62	8	5	0.27	11
	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	926	1046	25.68	1070
Rajasthan	kota TPS (2*110+2*195+3*210)	1240	1047	870	22.80	950
	suratgarh TPS (6*250)	1500	218	181	4.77	199
	Chabra TPS (4*250)	1000	908	786	19.19	800
	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	167	166	3.87	161
	RAPS A (NPC) (1*100+1*200)	300	196	166	4.34	181
	Barsingar (NLC) (2*125)	250	216	213	4.70	196
	Giral LTPS (2*125)	250	0	0	0.00	0
	Rajwest LTPS (IPP) (8*135)	1080	703	628	14.16	590
	VS LIGNITE LTPS (IPP) (1*135)	135	0	0	0.00	0
	Kalisindh Thermal(2*600)	1200	0	820	14.84	619
	Kawai(Adani) (2*660)	1320	1200	1186	28.36	1182
	Thermal (Total)	8876	4655	5016	117.03	4876
	Total Hydro	550	163	193	4.44	185
	Wind power	4017	159	506	9.39	391
	Biomass	99	19	19	0.45	19
	Solar	1295	5	0	3.12	130
	Renewable/Others (Total)	5411	183	525	12.96	540
	Total Rajasthan	14837	5001	5734	134.43	5601
UP	Anpara TPS (3*210+2*500)	1630	1067	1424	31.20	1300
	Obra TPS (2*50+2*94+5*200)	1194	509	426	11.70	488
	Paricha TPS (2*110+2*220+2*250)	1160	0	0	0.00	0
	Panki TPS (2*105)	210	0	0	0.00	0
	Harduaqanj TPS (1*60+1*105+2*250)	665	223	158	4.60	192
	Tanda TPS (NTPC) (4*110)	440	273	210	6.78	282
	Roza TPS (IPP) (4*300)	1200	1102	734	22.40	933
	Anpara-C (IPP) (2*600)	1200	527	486	12.60	525
	Bajaj Energy Pvt.Ltd(IPP) TPS (10*45)	450	0	0	0.00	0
	Anpara-D(2*500)	1000	834	832	18.90	788
	Lalitpur TPS(3*660)	1980	1335	1064	30.30	1263
	Bara(2*660)	1320	545	545	13.10	546
	Thermal (Total)	12449	6415	5879	151.58	6316
	Vishnuparyag HPS (IPP)(4*110)	440	63	68	1.60	67
	Alakanada(4*82.5)	330	76	0	0.90	38
	Other Hydro	527	58	74	1.90	79
	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	7462	6871	176.38	7349	
Uttarakhand	Other Hydro	1250	548	329	9.26	386
	Total Gas	225	278	270	6.49	270
	Wind Power	0	0	0	0.00	0
	Biomass	127	0	0	0.00	0
	Solar	20	0	0	0.06	2
	Small Hydro (< 25 MW)	180	0	0	0.00	0
	Renewable(Total)	327	0	0	0.06	2
	Total Uttarakhand	1802	826	599	15.81	659
Delhi	Rajghat TPS (2*67.5)	135	0	0	0.00	0
	Delhi Gas Turbine (6x30 + 3x34)	282	72	72	1.90	79
	Pragati Gas Turbine (2x104+ 1x122)	330	156	154	3.76	157
	Rithala GPS (3*36)	95	0	0	0.00	0
	Bawana GPS (4*216+2*253)	1370	251	280	6.01	251
	Badarpur TPS (NTPC) (3*95+2*210)	705	0	0	0.00	0
	Thermal (Total)	2917	479	506	11.68	486
	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	479	506	11.68	486
	HP	Baspa HPS (IPP) (3*100)	300	0	0	0.86
Malana HPS (IPP) (2*43)		86	0	0	0.28	12
Other Hydro		372	105	8	2.12	89
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	153	140	3.61	151
Renewable(Total)		486	153	140	3.61	151
Total HP		1244	257	148	6.88	287
J & K		Baqilhar HPS (IPP) (3*150+3*150)	900	296	292	7.07
	Other Hydro/IPP(including 98 MW Small Hydro)	308	131	109	2.91	121
	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	427	401	10	416

Total State Control Area Generation	50078	18116	16807	435.99	18166
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]		7119	6660	191.93	7997
Total Regional Availability(Gross)	75315	42282	33395	907.38	37808

IV. Total Hydro Generation:

Regional Entities Hydro	12234	8807	2486	97.97	4082
State Control Area Hydro	7163	2369	1714	44.24	2116
Total Regional Hydro	19397	11176	4200	142.21	6198

V. Total Renewable Generation:

Regional Entities Renewable	30	0	0	0.14	6
State Control Area Renewable	7356	336	665	16.84	702
Total Regional Renewable	7386	336	665	16.98	707

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	8.44	-8.44
765 KV Gwalior-Agra (D/C)	2015	2333	2761	0	57.24	0.00	57.24
400 KV Zerda-Kankroli	-54	-87	33	167	0.00	1.29	-1.29
400 KV Zerda-Bhimnal	58	-72	163	101	1.43	0.00	1.43
220 KV Auraiya-Malanpur	-131	-101	0	147	0.00	2.16	-2.16
220 KV Badod-Kota/Morak	-51	21	57	51	0.08	0.00	0.08
Mundra-Mohinderghar(HVDC Bipole)	2497	1399	2505	0.00	48.22	0.00	48.22
400 KV RAPPCC-Sujalpur	115	243	369	0	5.45	0.00	5.45
400 KV Vindhychal-Rihand	0	0	0	0	0.00	0.00	0.00
765 kV Phagi-Gwalior (D/C)	1196	1092	1524	0	28.61	0.00	28.61
Champa-Kurushetra HVDC	1260	143	1396	0	0.00	0.00	0.00
Sub Total WR	5145	4328			141.02	11.89	129.13
400 kV Sasaram - Varanasi	163	185	185	0	4.06	0.00	4.06
400 kV Sasaram - Allahabad	78	56	100	0	1.80	0.00	1.80
400 KV MZP- GKP (D/C)	205	333	338	0	5.56	0.00	5.56
400 KV Patna-Balia(D/C) X 2	662	637	832	0	16.08	0.00	16.08
400 KV B'Sharif-Balia (D/C)	66	144	204	0	1.87	0.00	1.87
765 KV Gaya-Balia	187	270	327	0	6.54	0.00	6.54
765 KV Gaya-Varanasi (D/C)	442	485	783	0	14.17	0.00	14.17
220 KV Pusauli-Sahupuri	106	191	216	0	4.25	0.00	4.25
132 KV K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
132 KV Son Ngr-Rihand	-33	-30	0	37	0.00	0.70	-0.70
132 KV Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
765 KV Sasaram - Fatehpur	87	46	100	100	0.00	0.08	-0.08
400 KV Barh -GKP (D/C)	508	486	562	0	11.30	0.00	11.30
400 kV B'Sharif - Varanasi (D/C)	3	29	188	0	6.07	0.00	6.07
Sub Total ER	2474	2832			71.69	0.78	70.91
+/- 800 KV BiswanathChariali-Agra	-500	-500	0	500.00	0.00	8.11	-8.11
Sub Total NER	-500	-500			0.00	8.11	-8.11
Total IR Exch	7119	6660			212.72	20.79	191.93

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
47.93	0.17	48.10	-2.68	0.70	2.36	-0.01	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
47.78	145.13	192.91	62.80	129.13	191.93	15.02	-15.99	-0.98

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	-37	0	39	0	1	-0.83

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	0.06	7.33	53.63	77.41	11.67	3.15	0.47	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)		
50.24	6.01	49.78	21.04	49.99	0.039	0.062	50.07	49.89	22.59

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	0:00	400	12:07	0.0	0.0	0.0	0.0	0.0
Gorakhpur	400	416	1:53	400	18:28	0.0	0.0	0.0	0.0	0.0
Bareilly(PG)400kV	400	421	2:02	404	10:11	0.0	0.0	0.1	0.0	0.1
Kanpur	400	418	2:04	404	8:54	0.0	0.0	0.0	0.0	0.0
Dadri	400	428	1:43	405	12:17	0.0	0.0	24.2	0.0	24.2
Ballabgarh	400	424	1:59	404	9:21	0.0	0.0	16.2	0.0	16.2
Bawana	400	427	4:00	406	12:09	0.0	0.0	24.0	0.0	24.0
Bassi	400	425	20:29	398	6:27	0.0	0.0	7.3	0.0	7.3
Hissar	400	421	2:02	399	12:16	0.0	0.0	0.6	0.0	0.6
Moga	400	423	1:43	402	12:17	0.0	0.0	10.8	0.0	10.8
Abdullapur	400	428	1:41	408	12:17	0.0	0.0	30.3	0.0	30.3
Nalagarh	400	427	3:00	411	12:20	0.0	0.0	39.2	0.0	39.2
Kishenpur	400	419	1:51	403	15:14	0.0	0.0	0.0	0.0	0.0
Wagoora	400	393	3:36	373	15:38	35.4	86.9	0.0	0.0	35.4
Amritsar	400	426	1:27	167	11:04	0.0	0.0	24.9	0.0	24.9
Kashipur	400	0	0:00	0	0:00	0.0	0.0	0.0	0.0	0.0
Hamirpur	400	418	20:12	404	15:15	0.0	0.0	0.0	0.0	0.0
Rishikesh	400	424	1:28	400	10:08	0.0	0.0	15.1	0.0	15.1

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	1:59	751	9:21	0.0	0.0	0.0	0.0	0.0
Balia	765	786	1:57	767	8:57	0.0	0.0	0.0	0.0	0.0

Moga	765	803	1:40	770	12:08	0.0	0.0	2.9	0.0	2.9
Agra	765	790	3:59	762	8:52	0.0	0.0	0.0	0.0	0.0
Bhiwani	765	808	20:30	774	12:10	0.0	0.0	21.9	0.0	21.9
Unnao	765	777	3:00	755	18:38	0.0	0.0	0.0	0.0	0.0
Lucknow	765	792	2:02	761	18:27	0.0	0.0	0.0	0.0	0.0
Meerut	765	810	20:28	770	7:14	0.0	0.0	6.5	0.0	6.5
Jhatikara	765	806	3:59	772	9:36	0.0	0.0	17.0	0.0	17.0
Bareilly 765 kV	765	799	1:57	763	12:17	0.0	0.0	0.0	0.0	0.0
Anta	765	789	17:02	760	9:08	0.0	0.0	0.0	0.0	0.0
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	476.34	381.25	489.90	729.18	113.52	413.26
Pong	426.72	384.05	401.66	259.17	400.28	223.85	82.83	386.47
Tehri	829.79	740.04	785.25	388.53	776.95	284.99	46.41	237.00
Koteshwar	612.50	598.50	610.41	4.69	611.09	5.12	237.00	231.40
Chamera-I	760.00	748.75	759.17	0.00	0.00	0.00	131.22	103.96
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	504.68	1.73	495.94	0.00	73.84	81.55

* 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	-101	-403	0	-101	-299	0	-6.39	-3.14	-9.54
Delhi	-182	-601	0	-302	4	0	-6.23	-3.99	-10.22
Haryana	-622	286	0	-314	306	0	-9.99	6.95	-3.04
HP	319	112	0	206	-125	0	9.35	-2.30	7.06
J&K	423	0	0	419	159	0	9.95	1.63	11.57
CHD	0	-20	0	0	-20	0	0.00	-0.25	-0.25
Rajasthan	26	330	0	26	282	0	8.26	5.29	13.55
UP	107	0	0	-27	-100	0	-6.07	-2.20	-8.27
Uttarakhand	121	72	0	0	157	0	1.18	4.07	5.25
Total	92	-224	0	-92	365	0	0.06	6.05	6.11

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

State	Bilateral (MW)		IEX (MW)		PXIL (MW)	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Punjab	-101	-655	0	-418	0	0
Delhi	-177	-343	194	-640	0	0
Haryana	-314	-622	391	-73	0	0
HP	584	201	112	-586	0	0
J&K	423	404	347	-202	0	0
CHD	0	0	30	-61	0	0
Rajasthan	929	19	330	-540	0	0
UP	157	-719	0	-100	0	0
Uttarakhand	121	0	420	2	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	0.35%
ER	0.00%
Simultaneous	1.39%

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

WR	7.64%
ER	0.00%
Simultaneous	24.31%

(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	0	8
Rajasthan	3	16
Delhi	2	21
UP	1	24
Uttarakhand	2	24
HP	3	27
J & K	6	66
Chandigarh	3	30

XIII. System Constraints:

XIV. Grid Disturbance / Any Other Significant Event:

XV. Weather Conditions For 21.02.2017 :

XVI. Synchronisation of new generating units :

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

0
0
0
0
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 : 21.02.2017

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER