



POWER SYSTEM OPERATION CORPORATION LIMITED
NORTHERN REGIONAL LOAD DESPATCH CENTRE
DAILY OPERATION REPORT OF NORTHERN REGION

Power Supply Position in Northern Region For 26-Dec-2018

Date of Reporting:27-Dec-2018

1. Regional Availability/Demand:

Evening Peak (19:00) MW				Off-Peak (03:00) MW				Day Energy(Net MU)	
Demand Met	Shortage(-)/Surplus(+)	Requirement	Freq (Hz)	Demand Met	Shortage(-)/Surplus ..	Requirement	Freq (Hz)	Demand Met	Shortage
46,744	524	47,268	50	31,551	308	31,859	49.98	970	11.68

2(A)State's Load Deails (At State Periphery) in MU:

State	State's Control Area Generation (Net MU)							Drawal Sch (Net MU)	Act Drawal (Net MU)	UI (Net MU)	Requirement (Net MU)	Shortage (Net MU)	Consumption (Net MU)
	Thermal	Hydro	Gas/Naptha/Diesel	Solar	Wind	OthersBiomass/Small Hyd/Co-gen etc.)	Total						
PUNJAB	83.64	10.66	0	3.06	0	1.07	98.43	24.36	24.77	0.41	123.2	0	123.2
HARYANA	59.79	0.54	0	0.12	0	1.02	61.47	68.76	68.87	0.11	130.34	0	130.34
RAJASTHAN	138.06	4.35	1.71	14.95	10.72	3.65	173.43	66.56	67.04	0.48	240.47	0	240.47
DELHI	0	0	15.98	0	0	0	15.98	48.89	48.66	-0.23	64.65	0.01	64.64
UTTAR PRADESH	148.92	7.85	0	2.48	0	21.6	180.85	107.89	108.24	0.35	289.1	0.01	289.09
UTTARAKHAND	0	9.58	2.5	0.35	0	0.85	13.28	25.56	26.15	0.59	39.43	0	39.43
HIMACHAL PRADESH	0	3.73	0	0.06	0	2.4	6.2	23.63	24.68	1.05	31.14	0.26	30.88
JAMMU & KASHMIR	0	5.22	0	0	0	0	5.22	43.72	43.01	-0.71	59.63	11.4	48.23
CHANDIGARH	0	0	0	0	0	0	0	3.07	3.69	0.62	3.69	0	3.69
Region	430.41	41.93	20.19	21.02	10.72	30.59	554.86	412.44	415.11	2.67	981.65	11.68	969.97

2(B)State Demand Met (Peak and off-peak Hrs)

State	Evening Peak (19:00) MW				Off-Peak (03:00) MW			
	Demand Met	Shortage(-)/Surplus(+)	UI	STOA/PX Transaction	Demand Met	Shortage(-)/Sur ..	UI	STOA/PX Transaction
PUNJAB	6,195	0	-28	-1,692	3,517	0	101	-1,692
HARYANA	6,682	0	-53	-856	4,376	0	-5	-879
RAJASTHAN	10,416	0	-64	-743	8,092	0	147	3
DELHI	3,252	0	27	-760	1,484	0	-7	-1,399
UTTAR PRADESH	14,480	0	-91	103	10,095	0	44	41
UTTARAKHAND	1,974	0	73	588	1,248	0	33	549
HIMACHAL PRADESH	1,498	11	155	339	910	0	13	436
JAMMU & KASHMIR	2,051	513	-197	1,151	1,748	308	-67	707
CHANDIGARH	197	0	29	0	83	0	13	-41
Region	46,745	524	-149	-1,870	31,553	308	272	-2,275

2(C)State's Demand Met in MWs (Maximum Demand Met and Maximum requirement of the day details)

State	Maximum Demand, corresponding shortage and requirement details for the day				Maximum requirement, corresponding shortage and demand details for the day					
	Maximum Demand Met of the day	Time	Shortage(-) /Surplus(+) during at maximum demand	Requirement at the max demand met of the day	Maximum Requirement of the day	Time	Shortage(-) /Surplus(+) during at maximum Requirement	Demand Met at maximum requiremnet	Min Demand Met	Time
PUNJAB	6,312	12:00	0	6,312	6,312	12:00	0	6,312	3,517	3:00
HARYANA	6,682	19:00	0	6,682	6,682	19:00	0	6,682	4,305	2:00
RAJASTHAN	12,919	10:00	0	12,919	12,919	10:00	0	12,919	7,506	5:00
DELHI	3,900	11:00	0	3,900	3,900	11:00	0	3,900	1,434	4:00
UP	14,480	19:00	0	14,480	14,480	19:00	0	14,480	10,095	3:00
UTTARAKHAND	2,083	8:00	0	2,083	2,083	8:00	0	2,083	1,248	3:00
HP	1,671	10:00	11	1,682	1,682	10:00	11	1,671	863	4:00
J&K	2,453	20:00	613	3,067	3,067	20:00	613	2,453	1,743	2:00
CHANDIGARH	225	9:00	0	225	225	9:00	0	225	83	3:00
NR	46,744	19:00	524	47,268	47,268	19:00	524	46,744	31,551	3:00

3(A) State Entities Generation:

CHANDIGARH						
Station/Constituents	Inst. Capacity	N/A	N/A	Day Peak		Day Energy
	(MW)	Peak MW	Off Peak MW	(MW)	Hrs	(MU)
NIL						
Total	0	0	0			0
Total	0	0	0			0

DELHI							
Station/Constituents	Inst. Capacity	19:00	03:00	Day Peak		Day Energy	AVG. MW
	(MW)	Peak MW	Off Peak MW	(MW)	Hrs	(MU)	
BADARPUR TPS(2 * 210 + 3 * 100)	705	0	0	0			
RAJGHAT TPS(2 * 67.5)	135	0	0	0			
Total THERMAL	840	0	0			0	0
BAWANA GPS(2 * 253 + 4 * 216)	1,370	451	463	519	12:00	11.1	463
DELHI GAS TURBINES(3 * 34 + 6 * 30)	282	40	40	41	12:00	0.93	39
PRAGATI GAS TURBINES(1 * 121.2 + 2 * 104.6)	331	163	164	165	20:00	3.95	165
RITHALA GPS(3 * 36)	108	0	0	0			
Total GAS/NAPHTHA/DIESEL	2,091	654	667			15.98	667
WIND	0	0	0	0			
BIOMASS(1 * 16)	16	0	0	0			
SOLAR(1 * 2)	2	0	0	0			
Total DELHI	2,949	654	667			15.98	667

HARIYANA							
Station/Constituents	Inst. Capacity	19:00	03:00	Day Peak		Day Energy	AVG. MW
	(MW)	Peak MW	Off Peak MW	(MW)	Hrs	(MU)	
DCRTPP (YAMUNA NAGAR)(2 * 300)	600	567	493	0		12.14	506
JHAJJAR(CLP)(2 * 660)	1,320	1,185	741	0		23.58	983
MAGNUM DIESEL (IPP)(4 * 6.3)	25	0	0	0			
PANIPAT TPS(2 * 210 + 2 * 250)	920	578	574	0		14.33	597
RGTPP(KHEDAR)(2 * 600)	1,200	410	388	0		9.73	405
Total THERMAL	4,065	2,740	2,196			59.78	2,491
FARIDABAD GPS(1 * 156.07 + 2 * 137.75)	432	0	0	0			
Total GAS/NAPHTHA/DIESEL	432	0	0			0	0
TOTAL HYDRO HARYANA(1 * 62)	62	16	20	0		0.54	23
Total HYDEL	62	16	20			0.54	23
WIND	0	0	0	0			
BIOMASS(1 * 106)	106	0	0	0		1.02	43
SOLAR(1 * 50)	50	0	0	0		0.12	5
Total HARYANA	4,715	2,756	2,216			61.46	2,562

HIMACHAL PRADESH							
Station/Constituents	Inst. Capacity	19:00	03:00	Day Peak		Day Energy	AVG. MW
	(MW)	Peak MW	Off Peak MW	(MW)	Hrs	(MU)	
BASPA (IPP) HPS(3 * 100)	300	31	31	114	21:00	1.26	53
MALANA (IPP) HPS(2 * 43)	86	46	0	46	19:00	0.26	11
OTHER HYDRO HP(1 * 372)	372	154	38	0		2.21	92
Total HYDEL	758	231	69			3.73	156
WIND	0	0	0	0			
BIOMASS	0	0	0	0			
SOLAR	0	0	0	12.912	13:00	0.06	3
SMALL HYDRO(1 * 486)	486	156	60	0		2.4	100
Total SMALL HYDRO	486	156	60			2.4	100
Total HP	1,244	387	129			6.19	259

JAMMU & KASHMIR							
Station/Constituents	Inst. Capacity	19:00	03:00	Day Peak		Day Energy	AVG. MW
	(MW)	Peak MW	Off Peak MW	(MW)	Hrs	(MU)	
GAS/DIESEL/OTHERS J&K(1 * 190)	190	0	0	0			
Total GAS/NAPHTHA/DIESEL	190	0	0			0	0
BAGLIHAR (IPP) HPS(6 * 150)	900	148	148	0		3.55	148
OTHER HYDRO/IPP J&K(1 * 308)	308	106	46	0		1.67	70
Total HYDEL	1,208	254	194			5.22	218
WIND	0	0	0	0			
BIOMASS	0	0	0	0			
SOLAR	0	0	0	0			
SMALL HYDRO(1 * 98)	98	0	0	0			
Total SMALL HYDRO	98	0	0			0	0
Total J&K	1,496	254	194			5.22	218

PUNJAB							
Station/Constituents	Inst. Capacity	19:00	03:00	Day Peak		Day Energy	AVG. MW
	(MW)	Peak MW	Off Peak MW	(MW)	Hrs	(MU)	
GOINDWAL(GVK)(2 * 270)	540	474	290	491		9.62	401
GURU GOBIND SINGH TPS (ROPAR)(6 * 210)	1,260	192	0	192		2.71	113
GURU HARGOBIND SINGH TPS (LEHRA MOHABBAT)(2 * 210 + 2 * 250)	920	230	169	429		6.91	288
GURU NANAK DEV TPS (BHATINDA)(4 * 110)	460	0	0	0		0.09	4
RAJPURA(NPL) TPS(2 * 700)	1,400	1,320	1,320	1,320		31.15	1,298
TALWANDI SABO TPS(3 * 660)	1,980	1,841	616	1,841		33.17	1,382
Total THERMAL	6,560	4,057	2,395			83.65	3,486
TOTAL HYDRO PUNJAB(1 * 1000)	1,000	446	414	619		10.66	444
Total HYDEL	1,000	446	414			10.66	444
WIND	0	0	0	0			
BIOMASS(1 * 303)	303	0	0	0		1.07	45
SOLAR(1 * 859)	859	0	0	515		3.06	128
Total PUNJAB	8,722	4,503	2,809			98.44	4,103

RAJASTHAN							
Station/Constituents	Inst. Capacity	19:00	03:00	Day Peak		Day Energy	AVG. MW
	(MW)	Peak MW	Off Peak MW	(MW)	Hrs	(MU)	
BARSINGSAR (IPP) LTPS(2 * 125)	250	220	223	0		5.42	226
CHHABRA TPS(1 * 660 + 4 * 250)	1,660	1,527	1,342	0		34.4	1,433
GIRAL (IPP) LTPS(2 * 125)	250	0	0	0			
KALISINDH TPS(2 * 600)	1,200	1,130	811	0		23.43	976
KAWAI TPS(2 * 660)	1,320	1,150	853	0		25.59	1,066
KOTA TPS(2 * 110 + 2 * 195 + 3 * 210)	1,240	872	965	0		23.18	966
RAJWEST (IPP) LTPS(8 * 135)	1,080	395	312	0		10.39	433
SURATGARH TPS(6 * 250)	1,500	527	532	0		13.16	548
VSLPP (IPP)(1 * 135)	135	105	105	0		2.49	104
Total THERMAL	8,635	5,926	5,143			138.06	5,752
DHOLPUR GPS(3 * 110)	330	0	0	0			
RAMGARH GPS(1 * 110 + 1 * 35.5 + 1 * 50 + 2 * 37.5)	271	70	70	0		1.71	71
Total GAS/NAPHTHA/DIESEL	601	70	70			1.71	71
RAPS-A(1 * 100 + 1 * 200)	300	125	120	0		2.94	123
Total NUCLEAR	300	125	120			2.94	123
TOTAL HYDRO RAJASTHAN(1 * 550)	550	167	212	0		4.35	181
Total HYDEL	550	167	212			4.35	181
WIND	4,292	639	373	0		10.72	447
BIOMASS(1 * 102)	102	30	30	0		0.71	30
SOLAR(1 * 1995)	1,995	0	0	0		14.95	623
Total RAJASTHAN	16,475	6,957	5,948			173.44	7,227

UTTAR PRADESH							
Station/Constituents	Inst. Capacity	19:00	03:00	Day Peak		Day Energy	AVG. MW
	(MW)	Peak MW	Off Peak MW	(MW)	Hrs	(MU)	
ANPARA TPS(2 * 500 + 3 * 210)	1,630	1,450	1,222	0		33.93	1,414
ANPARA-C TPS(2 * 600)	1,200	1,082	597	0		24.44	1,018
ANPARA-D TPS(2 * 500)	1,000	948	949	0		21.88	912
BAJAJ ENERGY PVT LTD (IPP) TPS(10 * 45)	450	0	0	0			
BARA PPGCL TPS(3 * 660)	1,980	1,015	677	0		21.96	915
HARDUAGANJ TPS(1 * 105 + 1 * 60 + 2 * 250)	665	443	258	0		9.39	391
LALITPUR TPS(3 * 660)	1,980	621	0	0		5.66	236
MEJA TPS(1 * 660)	660	0	0	0			
OBRA TPS (2 * 94 + 5 * 200)	1,188	518	323	0		11.29	470
PANKI TPS(2 * 105)	210	0	0	0			
PARICHA TPS(2 * 110 + 2 * 210 + 2 * 250)	1,160	609	345	0		12.59	525
ROSA TPS(4 * 300)	1,200	0	0	0			
TANDA TPS(4 * 110)	440	341	214	0		7.78	324
Total THERMAL	13,763	7,027	4,585			148.92	6,205
ALAKHANDA HEP(4 * 82.5)	330	76	142	0		1.47	61
VISHNUPARYAG HPS(4 * 110)	440	83	78	0		1.93	80
OTHER HYDRO UP(1 * 527)	527	152	218	0		4.46	186
Total HYDEL	1,297	311	438			7.86	327
WIND	0	0	0	0			
BIOMASS(1 * 26)	26	0	0	0			
SOLAR(1 * 472)	472	0	0	0		2.48	103
CO-GENERATION(1 * 1360)	1,360	900	900	0		21.6	900
Total OTHERs	1,360	900	900			21.6	900
Total UP	16,918	8,238	5,923			180.86	7,535

UTTARAKHAND										
Station/Constituents	Inst. Capacity	19:00	03:00	Day Peak		Day Energy	AVG. MW			
	(MW)	Peak MW	Off Peak MW	(MW)	Hrs	(MU)				
TOTAL GAS UK(1 * 450)	450	103	104	105	12:00	2.5	104			
Total GAS/NAPHTHA/DIESEL	450	103	104			2.5	104			
OTHER HYDRO UK(1 * 1250)	1,250	679	213	679	19:00	9.58	399			
Total HYDEL	1,250	679	213			9.58	399			
WIND	0	0	0	0						
BIOMASS(1 * 127)	127	37	35	37	19:00	0.85	35			
SOLAR(1 * 100)	100	0	0	71	13:00	0.35	15			
SMALL HYDRO(1 * 180)	180	0	0	0						
Total SMALL HYDRO	180	0	0			0	0			
Total UTTARAKHAND	2,107	819	352			13.28	553			

3(B) Regional Entities Generation

Station/Constituents	Inst. Capacity	Declared Capacity	19:00	03:00	Day Peak		Day Energy		AVG. MW	UI
	(MW)	(MW)	Peak MW	Off Peak MW	(MW)	Hrs	SCHD (MU)	ACT (MU)		
BBMB										
BHAKRA HPS(2 * 108 + 3 * 126 + 5 * 157)	1,379	665.68	1,092	418	1,092	19:00	15.98	16.1	671	0.12
DEHAR HPS(6 * 165)	990	136.77	495	0	495	19:00	3.28	3.42	143	0.14
PONG HPS(6 * 66)	396	260	264	264	264	19:00	6.24	6.25	260	0.01
Sub-Total	2,765	1,062.45	1,851	682	-	-	25.5	25.77	1,074	0.27
NHPC										
BAIRASIUL HPS(3 * 60)	180	0	0	0	0	-	0	-	-	0
CHAMERA HPS(3 * 180)	540	535.58	367	0	546	18:15	2.1	2.21	92	0.11
CHAMERA II HPS(3 * 100)	300	176.9	204	30	204	19:00	1.33	1.45	60	0.12
CHAMERA III HPS(3 * 77)	231	153	160	0	160	19:00	0.7	0.74	31	0.04
DHAULIGANGA HPS(4 * 70)	280	281.38	284	0	284	18:00	1.05	1.08	45	0.03
DULHASTI HPS(3 * 130)	390	386.9	390	0	395	07:00	3.1	3.21	134	0.11
KISHANGANGA(2 * 110)	220	41.31	220	23	220	19:00	0.99	1.03	43	0.04
PARBATI III HEP(4 * 130)	520	0	0	0	0	-	0	-	-	0
SALAL HPS(6 * 115)	690	110.83	348	55	351	07:00	2.66	2.86	119	0.2
SEWA-II HPS(3 * 40)	120	120.2	40	0	123	07:00	0.39	0.38	16	-0.01
TANAKPUR HPS(1 * 31.42 + 2 * 31.4)	94	26.23	21	24	65	16:00	0.63	0.64	27	0.01
URI HPS(4 * 120)	480	130.42	336	118	360	21:00	3.13	3.49	145	0.36
URI-II HPS(4 * 60)	480	78.82	182	80	182	19:00	1.89	2	83	0.11
Sub-Total	4,525	2,041.57	2,552	330	-	-	17.97	19.09	795	1.12
NPCL										
NAPS(2 * 220)	440	414	454	459	461	05:00	9.94	10	417	0.06
RAPS-B(2 * 220)	440	179	208	206	208	04:00	4.3	4.26	178	-0.04
RAPS-C(2 * 220)	440	430	473	471	475	-	10.32	10.35	431	0.03
Sub-Total	1,320	1,023	1,135	1,136	-	-	24.56	24.61	1,026	0.05
NTPC										
ANTA GPS(1 * 153.2 + 3 * 88.71)	419	335.15	0	0	276	08:18	1.03	1.02	43	-0.01
AURAIYA GPS(2 * 109.3 + 4 * 111.19)	663	515.19	0	0	348	10:00	1.17	1.16	48	-0.01
DADRI GPS(2 * 154.51 + 4 * 130.19)	830	295.78	251	226	251	19:00	6.71	6.77	282	0.06
DADRI SOLAR(1 * 5)	5	0.68	0	0	0	-	0.02	0.02	1	0
DADRI-I TPS(4 * 210)	840	576.45	0	0	0	-	10.74	10.6	442	-0.14
DADRI-II TPS(2 * 490)	980	928.55	0	0	0	-	18.11	18.47	770	0.36
ISTPP (JHAJJAR)(3 * 500)	1,500	947.5	961	570	1,008	07:25	17.98	17.84	743	-0.14
KOLDAM HPS(4 * 200)	800	872	384	0	596	07:00	2.62	2.55	106	-0.07
RIHAND-I STPS(2 * 500)	1,000	922.5	979	880	979	19:00	21.65	21.52	897	-0.13
RIHAND-II STPS(2 * 500)	1,000	942.5	992	852	992	19:00	22.01	22.16	923	0.15
RIHAND-III STPS(2 * 500)	1,000	471.25	509	416	509	19:00	10.86	10.95	456	0.09
SINGRAULI STPS(2 * 500 + 5 * 200)	2,000	1,862.5	2,024	1,808	2,046	02:00	43.79	44.58	1,858	0.79
SINGRAULI SOLAR(1 * 15)	15	2.45	0	0	0	-	0.06	0.06	3	0
UNCHAHAH II TPS(2 * 210)	420	382.2	373	239	373	19:00	7.77	7.31	305	-0.46
UNCHAHAH III TPS(1 * 210)	210	191.1	196	118	196	19:00	3.73	3.57	149	-0.16
UNCHAHAH IV TPS(1 * 500)	500	400	405	292	405	19:00	8.1	7.68	320	-0.42
UNCHAHAH SOLAR(1 * 10)	10	1.65	0	0	0	-	0.04	0.04	2	0
UNCHAHAH TPS(2 * 210)	420	349.11	313	260	313	19:00	7.35	7.07	295	-0.28
Sub-Total	12,612	9,996.56	7,387	5,661	-	-	183.74	183.37	7,643	-0.37
SJVNL										
NATHPA-JHAKRI HPS(6 * 250)	1,500	999.5	1,003	0	1,084	07:00	6.8	6.7	279	-0.1
RAMPUR HEP(6 * 68.67)	412	278.12	296	0	297	07:00	1.89	1.95	81	0.06
Sub-Total	1,912	1,277.62	1,299	0	-	-	8.69	8.65	360	-0.04
THDC										
KOTESHWAR HPS(4 * 100)	400	130	381	90	383	07:00	3.12	3.13	130	0.01
TEHRI HPS(4 * 250)	1,000	1,064	990	0	1,061	07:00	9.3	9.31	388	0.01
Sub-Total	1,400	1,194	1,371	90	-	-	12.42	12.44	518	0.02
Total	24,534	16,595.2	15,595	7,899			272.88	273.93	11,416	1.05

IPP/JV

Station/Constituents	Inst. Capacity	Declared Capacity	19:00	03:00	Day Peak		Day Energy		AVG. MW	UI
	(MW)	(MW)	Peak MW	Off Peak MW	(MW)	Hrs	SCHD (MU)	ACT (MU)		
IPP										
ADHPL(IPP) HPS(2 * 96)	192	0	97	0	98	20:00	0.49	0.48	20	-0.01
BUDHIL HPS (IPP)(2 * 35)	70	0	0	0	35	11:00	0.24	0.23	10	-0.01
KARCHAM WANGTOO HPS(4 * 250)	1,000	0	900	0	900	18:00	3.56	3.56	148	0
MALANA2(2 * 50)	100	0	0	0	86	11:00	0.24	0.26	11	0.02
SAINJ HEP(2 * 50)	50	0	100	0	100	00:00	0.41	0.45	19	0.04
SHREE CEMENT (IPP) TPS(2 * 150)	300	0	146	134	148	08:00	3.35	3.28	137	-0.07
Sub-Total	1,712	0	1,243	134	-	-	8.29	8.26	345	-0.03
Total	1,712	0	1,243	134			8.29	8.26	345	-0.03

Summary Section					
	Inst. Capacity	PEAK	OFF-PEAK	Day Energy	Day AVG.
Total State Control Area Generation	54,626	24,568	18,238	554.87	23,120
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]		6,287	5,611	157.1	8,853
Total Regional Availability(Gross)	80,872	47,693	31,882	994.16	43,730

Total Hydro Generation					
	Inst. Capacity	PEAK	OFF-PEAK	Day Energy	Day AVG.
Regional Entities Hydro	12,814	8,554	1,102	73.48	3,062
State Control Area Hydro	6,125	2,104	1,560	41.94	1,748
Total Regional Hydro	18,939	10,658	2,662	115.42	4,810

Total Renewable Generation					
	Inst. Capacity	PEAK	OFF-PEAK	Day Energy	Day AVG.
Regional Entities Renewable	30	0	0	0.12	5
State Control Area Renewable	9,214	862	498	37.79	1,575
Total Regional Renewable	9,244	862	498	37.91	1,580

4(A) INTER-REGIONAL EXCHANGES (Import=(+ve) /Export =(-ve))

SL.No.	Element	19:00	03:00	Maximum Interchange (MW)		Import in MU	Export in MU	NET
		(MW)	MW	Import (MW)	Export (MW)			
Import/Export between EAST REGION and NORTH REGION								
1	132KV-Garhwa-Rihand	-	-	-	-	-	-	-
2	132KV-Karmnasa(PG)-Sahupuri(U ..	-	-	-	-	0.96	0	0.96
3	132KV-Rihand-Sonnagar(PG)	-	-	-	-	0	0.61	-0.61
4	220KV-Pusauli(PG)-Sahupuri(UP)	127	70	133	0	2.42	0	2.42
5	400KV-Biharsharif(PG)-Baliala(PG)	109	127	208	0	3.35	0	3.35
6	400KV-Biharsharif(PG)-Varanasi(P..	53	50	134	0	1.05	0	1.05
7	400KV-Fatehpur(UP)-Sasaram	-	-	-	-	-	-	-
8	400KV-Motihari(DMT)-Gorakhpur ..	282	266	360	0	7.09	0	7.09
9	400KV-Muzaffarpur(PG)-Gorakhp ..	248	168	452	0	7.35	0	7.35
10	400KV-Patna(PG)-Baliala(PG)	626	729	806	0	17.28	0	17.28
11	400KV-Sasaram-Allahabad(PG)	13	44	41	0	0.71	0	0.71
12	400KV-Sasaram-Varanasi(PG)	126	104	130	0	2.75	0	2.75
13	765KV-Fatehpur(PG)-Sasaram.	14	74	233	0	2.71	0	2.71
14	765KV-Gaya(PG)-Baliala(PG)	203	138	234	0	4.03	0	4.03
15	765KV-Gaya(PG)-Varanasi(PG)	154	233	527	0	7.21	0	7.21
16	HVDC800KV-Alipurduar-Agra(PG)	-	-	-	-	-	-	-
Sub-Total EAST REGION		1,955	2,003	3,258	0	56.91	0.61	56.3
Import/Export between NORTH_EAST REGION and NORTH REGION								
1	HVDC800KV-BiswanathCharialli- ..	-500	-500	0	500	0	11.82	-11.82
Sub-Total NORTH_EAST REGION		-500	-500	0	500	0	11.82	-11.82
Import/Export between WEST REGION and NORTH REGION								
1	220KV-Auraiya(NT)-Malanpur(PG)	-30	-59	-	208	0	2.3	-2.3
2	220KV-Badod(MP)-Kota(PG)	70	-26	138	41	0.9	0	0.9
3	220KV-Badod(MP)-Modak(RJ)	-	-	-	-	-	-	-
4	400KV-RAPS C(NP)-Sujalpur	-	-	-	-	0	1.36	-1.36
5	400KV-Vindhyachal(PG)-Rihand(N ..	-474	-381	-	479	0	10.95	-10.95
6	400KV-Zerda(PG)-Bhinmal(PG)	71	-31	407	57	3.48	0	3.48
7	400KV-Zerda(PG)-Kankroli(RJ)	0	-190	142	190	0	0.57	-0.57
8	765KV-0rai-Gwalior(PG)	-416	-376	0	591	0	10.82	-10.82
9	765KV-0rai-Jabalpur	247	207	835	0	8.89	0	8.89
10	765KV-0rai-Satna	1,440	1,426	1,547	0	34.64	0	34.64
11	765KV-Gwalior(PG)-Agra(PG)	1,827	1,316	1,913	0	35.28	0	35.28
12	765KV-Phagi(RJ)-Gwalior(PG)	647	771	1,225	-	20.84	0	20.84
13	HVDC500KV-Mundra(JH)-Mohind..	1,000	1,001	1,004	0	24.22	0	24.22
14	HVDC500KV-Vindhyachal(PG)-Vindhaychal B/B	-250	-250	0	250	0	6.04	-6.04
15	HVDC800KV-Champa(PG)-Kuruku..	700	700	700	0	16.41	0	16.41
Sub-Total WEST REGION		4,832	4,108	7,911	1,816	144.66	32.04	112.62
TOTAL IR EXCHANGE		6,287	5,611	11,169	2,316	201.57	44.47	157.1

4(B) Inter Regional Schedule & Actual Exchange (Import=(+ve) /Export =(-ve)) in MU

	ISGS/(LT+MT) Schedule	BILT Schedule	PX Schedule	Total IR Schedule	Total IR Actual	NET IR UI
NR-ER	47.88	-16.27	5.85	37.46	56.3	18.84

NR-WR	159	-33.75	-2.54	122.71	112.62	-10.09
Total	206.88	-50.02	3.31	160.17	157.1	-3.07

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

Element	Peak	Off-Peak	Maximum Interchange(MW)		Energy (MU)		Net Energy
	MW	MW	Import	Export	Import	Export	(MU)
132KV-Tanakpur(NH)-Mahendranagar(PG)	-24.89	-23.52		29		0.5431	-0.5431

5. Frequency Profile

RANGE(Hz)	< 49.2	< 49.7	< 49.8	< 49.9	< 50.0	>= 49.9 - <= 50.05	> 50.05 - <= 50.1	> 50.1 - <= 50.2	> 50.2	> 50.05
%	0	0	0	2.7	42.7	78.3	15.2	3.7	0	19

<-----Frequency (Hz)----->

Maximum		Minimum		Average	Freq Variation	Standard	Freq. in 15 mnt blk		Freq Dev Index
Frequency	Time	Frequency	Time				Frequency	Index	
50.18	05:02:30	49.8	07:35:10	50.01	0.029	0.054	50.11	49.89	21.7

6. Voltage Profile: 400kV

STATION	Maximum		Minimum		Voltage (in %)				Voltage Deviation Index (% of time)
	VOLTAGE	TIME	VOLTAGE	TIME	< 380	< 390	> 420	> 430	
Abdullapur(PG) - 400KV	428	04:00	408	12:20	0	0	43.06	0	43.06
Amritsar(PG) - 400KV	426	04:20	403	12:20	0	0	25.35	0	25.35
Ballabgarh(PG) - 400KV	424	04:00	399	10:35	0	0	13.89	0	13.89
Bareilly II(PG) - 400KV	417	04:00	395	12:20	0	0	0	0	0
Bareilly(UP) - 400KV	418	04:00	395	12:20	0	0	0	0	0
Baspa(HP) - 400KV	431	04:00	408	12:25	0	0	47.57	2.08	47.57
Bassi(PG) - 400KV	418	04:00	388	09:15	0	3.47	0	0	0
Bawana(DTL) - 400KV	428	04:00	407	12:20	0	0	40.63	0	40.63
Dadri HVDC(PG) - 400KV	423	04:00	404	12:20	0	0	22.57	0	22.57
Gorakhpur(PG) - 400KV	416	02:00	401	17:50	0	0	0	0	0
Hisar(PG) - 400KV	423	04:35	401	12:20	0	0	10.76	0	10.76
Kanpur(PG) - 400KV	420	02:00	403	12:20	0	0	0	0	0
Kashipur(UT) - 400KV	402	00:00	402	00:00	0	0	0	0	0
Kishenpur(PG) - 400KV	421	03:30	400	11:00	0	0	2.08	0	2.08
Moga(PG) - 400KV	419	04:00	397	12:20	0	0	0	0	0
Nallagarh(PG) - 400KV	431	04:00	408	12:25	0	0	47.57	2.08	47.57
Rihand HVDC(PG) - 400KV	406	03:25	406	03:25	.69	.69	0	0	.69
Rihand(NT) - 400KV	405	04:00	400	10:25	0	0	0	0	0

6.1 Voltage Profile: 765kV

STATION	Maximum		Minimum		Voltage (in %)				Voltage Deviation Index (% of time)
	VOLTAGE	TIME	VOLTAGE	TIME	< 728	< 742	> 800	> 820	
Anta RS(RJ) - 765KV	792	04:05	765	08:55	0	0	0	0	0
Balia(PG) - 765KV	784	02:00	757	11:15	0	0	0	0	0
Bareilly II(PG) - 765KV	795	04:00	752	12:20	0	0	0	0	0
Bhiwani(PG) - 765KV	800	04:00	762	12:25	0	0	0	0	0
Fatehpur(PG) - 765KV	787	02:00	749	07:25	0	0	0	0	0
Jhatikara(PG) - 765KV	801	04:00	762	11:10	0	0	1.74	0	1.74
Lucknow II(PG) - 765KV	791	04:00	755	12:20	0	0	0	0	0
Meerut(PG) - 765KV	802	21:20	754	12:20	0	0	2.78	0	2.78
Moga(PG) - 765KV	792	21:20	745	11:25	0	0	0	0	0
Phagi(RJ) - 765KV	798	04:05	761	09:30	0	0	0	0	0
Unnao(UP) - 765KV	772	03:30	738	12:20	0	11.46	0	0	0

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

State	Off- Peak Hours (03:00)			Peak Hours (19:00)			Day Energy (MU)			
	Bilateral (MW)	IEX (MW)	PXIL (MW)	Bilateral (MW)	IEX (MW)	PXIL (MW)	ISGS/(LT+MT) Schedule	BILT Schedule	PX Schedule	Total (MU)
PUNJAB	-1,692.21	0	0	-1,692.21	0	0	62.71	-40.61	2.27	24.36
HARYANA	-1,046.49	167.31	0	-987.54	131.59	0	92.92	-26.72	2.56	68.76
RAJASTHAN	-98.96	102.19	0	-98.96	-643.93	0	65.56	2.18	-1.19	66.56
DELHI	-772.09	-626.84	0	-724.28	-35.5	0	71.15	-18.84	-3.42	48.89
UTTAR PRADESH	19.43	21.41	0	33.84	69.11	0	112.82	-6.65	1.71	107.89
UTTARAKHAND	636.12	-86.68	0	529.05	58.67	0	11.25	13.75	0.56	25.56
HIMACHAL PRADESH	444.06	-7.89	0	314.24	24.76	0	13.1	12.69	-2.17	23.63
JAMMU & KASHMIR	608.59	98.59	0	608.59	542.24	0	24.64	14.6	4.47	43.72
CHANDIGARH	0	-40.57	0	0	0	0	3.8	0	-0.72	3.07
TOTAL	-1,901.55	-372.48	0	-2,017.27	146.94	0	457.95	-49.6	4.07	412.44

7(B). Short-Term Open Access Details

State	ISGS/(LT+MT) Schedule		Bilateral (MW)		IEX (MW)		PXIL (MW)	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
PUNJAB	3,444.45	2,294.18	-1,692.21	-1,692.21	443.66	0	0	0
HARYANA	4,912.5	2,947.16	-977.23	-1,380.47	169.36	-233.2	0	0
RAJASTHAN	3,969.61	1,212.79	746.21	-98.96	1,306.96	-1,381.6	0	0
DELHI	3,722.22	2,145.45	-592.26	-942.16	692.1	-640.02	0	0
UTTAR PRADESH	6,258.26	3,977.66	53.1	-846.11	165.48	-268.15	0	0
UTTARAKHAND	838.72	277.22	636.12	529.05	374.86	-251.63	0	0
HIMACHAL PRADESH	1,252.64	237.14	789.69	265.82	24.76	-400.66	0	0
JAMMU & KASHMIR	1,539.85	797.41	608.59	608.59	542.24	-253.58	0	0
CHANDIGARH	270.1	115.1	0	0	14.64	-99.91	0	0

8. Major Reservoir Particulars

RESERVOIR	Parameters		Present Parameters		LAST YEAR		LAST DAY	
	MDDL (Mts)	FRL (Mts)	Level (Mts)	Energy (MU)	Level (Mts)	Energy (MU)	Inflow (m3/s)	Usage (m3/s)
Bhakra	445.62	513.59	505.5	1,326	499.97	1,088	175.59	418.49
Chamera-I	748.75	760	-	-	-	-	-	0
Gandhisagar	295.78	295.78	-	-	-	-	-	0
Jawahar Sagar	295.78	298.7	-	-	-	-	-	0
Koteshwar	598.5	612.5	610.86	5	610.43	5	212	206.89
Pong	384.05	426.72	415.99	718	410.93	525	65.38	377.86
RPS	343.81	352.8	-	-	-	-	-	0
RSD	487.91	527.91	517.07	3	505.34	3	69.03	227.33
Rihand	252.98	268.22	-	-	-	-	-	0
Tehri	740.04	829.79	814.97	902	811.85	839	49.52	212
TOTAL	-	-	-	2,954	-	2,460	571.52	1,442.57

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

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

WR	0
ER	0
Simultaneous	0

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

WR	0
ER	0
Simultaneous	0

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

Rihand-Dadri	0
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10. Zero Crossing Violations

State	No. of violations(Maximum 8 in a day)	Maximum number of continuous blocks without sign change
CHANDIGARH	6	67
DELHI	4	29
HARYANA	0	12
HIMACHAL PRADESH	0	12
JAMMU & KASHMIR	3	18
PUNJAB	1	19
RAJASTHAN	3	27
UTTAR PRADESH	0	12
UTTARAKHAND	3	32

11. Significant events (If any):

12.Grid Disturbance / Any Other Significant Event:

13.Weather Conditions :

14.Synchronisation of new generating units :

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

1. 400kV Bus-I charged for the first time at 17.52 Hrs through CB no. 40552T at 400kV Kankani (Rajasthan).
2. Bay no. 403A of Rajwest line at 400kV Kankani (Rajasthan) charged for the first time at 21.01 Hrs.
3. Bay no. 404A of Jodhpur line at 400kV Kankani (Rajasthan) charged for the first time at 22.01 Hrs.
4. Bay no. 401A of Future line-I at 400kV Kankani (Rajasthan) charged for the first time at 23.07 Hrs.
5. Bay no. 402A of Future line-II at 400kV Kankani (Rajasthan) charged for the first time at 23.27 Hrs.
6. Tie Bay nos. 152T, 252T, 352T, 452T & 652T at 400kV Kankani (Rajasthan) charged for the first time at 23.59 Hrs.

16.Tripping of lines in pooling stations :

17.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.

Shift In Charge