



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

Power Supply Position in Northern Region For 31-Aug-2018

Date of Reporting:01-Sep-2018

1. Regional Availability/Demand:

Evening Peak (20:00) 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
55,210	609	55,819	49.87	51,384	244	51,628	50.02	1,249	10.04

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	92.47	16.92	0	5.8	0	2.26	117.44	141.35	140.99	-0.36	258.43	0	258.43
HARYANA	31.53	0.99	0	0.13	0	0.43	33.08	159.55	160.09	0.54	193.17	0	193.17
RAJASTHAN	114.15	0	2.93	11.22	52.39	0.3	181	48.63	49.77	1.14	230.77	0	230.77
DELHI	6.64	0	15.92	0	0	1.5	24.05	91.94	92.37	0.43	116.47	0.05	116.42
UTTAR PRADESH	140.6	19.3	0	1.1	0	1.2	162.2	173.07	171.98	-1.09	334.18	0	334.18
UTTARAKHAND	0	21.4	0	0.24	0	0	21.63	15.98	15.6	-0.38	37.23	0	37.23
HIMACHAL PRADESH	0	18.29	0	0	0	9.19	27.47	0.02	3	2.98	30.47	0	30.47
JAMMU & KASHMIR	0	24.65	0	0	0	0	24.65	21.61	17.38	-4.23	52.02	9.99	42.03
CHANDIGARH	0	0	0	0	0	0	0	6.39	5.94	-0.45	5.94	0	5.94
Region	385.39	101.55	18.85	18.49	52.39	14.88	591.52	658.54	657.12	-1.42	1,258.68	10.04	1,248.64

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

State	Evening Peak (20:00) MW				Off-Peak (03:00) MW			
	Demand Met	Shortage(-)/Surplus(+)	UI	STOA/PX Transaction	Demand Met	Shortage(-)/Sur ..	UI	STOA/PX Transaction
PUNJAB	10,445	0	-82	1,491	10,123	0	-66	2,088
HARYANA	8,787	0	-138	2,284	8,064	0	12	2,253
RAJASTHAN	9,376	0	157	-1,195	9,385	0	4	-307
DELHI	5,121	0	85	436	4,678	0	155	313
UTTAR PRADESH	16,069	120	-244	1,792	15,101	0	-61	2,359
UTTARAKHAND	1,811	0	78	32	1,354	0	-63	-193
HIMACHAL PRADESH	1,374	0	326	-1,913	1,080	0	106	-1,808
JAMMU & KASHMIR	1,955	489	-27	-463	1,383	244	-224	-1,117
CHANDIGARH	271	0	-21	-35	216	0	-7	-80
Region	55,209	609	134	2,429	51,384	244	-144	3,508

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 requirement
PUNJAB	11,102	12:00	0	11,102	11,102	12:00	0	11,102
HARYANA	8,917	21:00	0	8,917	8,917	21:00	0	8,917
RAJASTHAN	10,267	8:00	0	10,267	10,267	8:00	0	10,267
DELHI	5,556	24:00	0	5,556	5,556	24:00	0	5,556
UP	16,069	20:00	120	16,189	16,189	20:00	120	16,069
UTTARAKHAND	1,811	20:00	0	1,811	1,811	20:00	0	1,811
HP	1,422	11:00	0	1,422	1,422	11:00	0	1,422
J&K	2,108	10:00	527	2,635	2,635	10:00	527	2,108
CHANDIGARH	298	15:00	0	298	298	15:00	0	298
NR	55,287	21:00	514	55,800	55,800	21:00	514	55,287

3(A) State Entities Generation:

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

DELHI							
Station/Constituents	Inst. Capacity	20:00	03:00	Day Peak		Day Energy	AVG. MW
	(MW)	Peak MW	Off Peak MW	(MW)	Hrs	(MU)	
BADARPUR TPS(2 * 210 + 3 * 100)	705	305	313	0		6.64	277
RAJGHAT TPS(2 * 67.5)	135	0	0	0		0	0
Total THERMAL	840	305	313			6.64	277
BAWANA GPS(2 * 253 + 4 * 216)	1,370	429	428	0		10.59	441
DELHI GAS TURBINES(3 * 34 + 6 * 30)	282	70	71	0		1.78	74
PRAGATI GAS TURBINES(1 * 121.2 + 2 * 104.6)	331	142	145	0		3.55	148
RITHALA GPS(3 * 36)	108	0	0	0		0	0
Total GAS/NAPHTHA/DIESEL	2,091	641	644			15.92	663
WIND	0	0	0	0		0	0
BIOMASS(1 * 16)	16	0	0	0		1.5	63
SOLAR(1 * 2)	2	0	0	0		0	0
Total DELHI	2,949	946	957			24.06	1,003

HARIYANA							
Station/Constituents	Inst. Capacity	20:00	03:00	Day Peak		Day Energy	AVG. MW
	(MW)	Peak MW	Off Peak MW	(MW)	Hrs	(MU)	
DCRTPP (YAMUNA NAGAR)(2 * 300)	600	513	249	513	20:00	8.78	366
JHAJJAR(CLP)(2 * 660)	1,320	568	593	598	02:00	16.68	695
MAGNUM DIESEL (IPP)(4 * 6.3)	25	0	0	0		0	0
PANIPAT TPS(2 * 210 + 2 * 250)	920	406	199	407	21:00	6.08	253
RGTPP(KHEDAR)(2 * 600)	1,200	0	0	0		0	0
Total THERMAL	4,065	1,487	1,041			31.54	1,314
FARIDABAD GPS(1 * 156.07 + 2 * 137.75)	432	0	0	0		0	0
Total GAS/NAPHTHA/DIESEL	432	0	0			0	0
TOTAL HYDRO HARYANA(1 * 62)	62	28	28	28	01:00	0.99	41
Total HYDEL	62	28	28			0.99	41
WIND	0	0	0	0		0	0
BIOMASS(1 * 106)	106	0	0	0		0.43	18
SOLAR(1 * 50)	50	0	0	0		0.13	5
Total HARYANA	4,715	1,515	1,069			33.09	1,378

HIMACHAL PRADESH							
Station/Constituents	Inst. Capacity	20:00	03:00	Day Peak		Day Energy	AVG. MW
	(MW)	Peak MW	Off Peak MW	(MW)	Hrs	(MU)	
BASPA (IPP) HPS(3 * 100)	300	331	331	331		7.92	330
MALANA (IPP) HPS(2 * 43)	86	81	89	89	07:00	2.06	86
OTHER HYDRO HP(1 * 372)	372	325	363	0		8.3	346
Total HYDEL	758	737	783			18.28	762
WIND	0	0	0	0		0	0
BIOMASS	0	0	0	0		0	0
SOLAR	0	0	0	0		0	0
SMALL HYDRO(1 * 486)	486	389	390	0		9.19	383
Total SMALL HYDRO	486	389	390			9.19	383
Total HP	1,244	1,126	1,173			27.47	1,145

JAMMU & KASHMIR							
Station/Constituents	Inst. Capacity	20:00	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		0	0
Total GAS/NAPHTHA/DIESEL	190	0	0			0	0
BAGLIHAR (IPP) HPS(6 * 150)	900	883	883	0		21.19	883
OTHER HYDRO/IPP J&K(1 * 308)	308	174	155	0		3.47	145
Total HYDEL	1,208	1,057	1,038			24.66	1,028
WIND	0	0	0	0		0	0
BIOMASS	0	0	0	0		0	0
SOLAR	0	0	0	0		0	0
SMALL HYDRO(1 * 98)	98	0	0	0		0	0
Total SMALL HYDRO	98	0	0			0	0
Total J&K	1,496	1,057	1,038			24.66	1,028

PUNJAB							
Station/Constituents	Inst. Capacity	20:00	03:00	Day Peak		Day Energy	AVG. MW
	(MW)	Peak MW	Off Peak MW	(MW)	Hrs	(MU)	
GOINDWAL(GVK)(2 * 270)	540	246	145	246		5.29	220
GURU GOBIND SINGH TPS (ROPAR)(6 * 210)	1,260	384	293	384		6.7	279
GURU HARGOBIND SINGH TPS (LEHRA MOHABBAT)(2 * 210 + 2 * 250)	920	420	343	425		9.36	390
GURU NANAK DEV TPS (BHATINDA)(4 * 110)	460	0	0	0		-0.02	-1
RAJPURA(NPL) TPS(2 * 700)	1,400	1,320	1,320	1,320		31.64	1,318
TALWANDI SABO TPS(3 * 660)	1,980	1,841	1,650	1,841		39.48	1,645
Total THERMAL	6,560	4,211	3,751			92.45	3,851
TOTAL HYDRO PUNJAB(1 * 1000)	1,000	660	655	694		16.92	705
Total HYDEL	1,000	660	655			16.92	705
WIND	0	0	0	0		0	0
BIOMASS(1 * 303)	303	0	0	0		2.26	94
SOLAR(1 * 859)	859	0	0	511		5.8	242
Total PUNJAB	8,722	4,871	4,406			117.43	4,892

RAJASTHAN							
Station/Constituents	Inst. Capacity	20:00	03:00	Day Peak		Day Energy	AVG. MW
	(MW)	Peak MW	Off Peak MW	(MW)	Hrs	(MU)	
BARSINGSAR (IPP) LTPS(2 * 125)	250	114	222	0		4.53	189
CHHABRA TPS(1 * 660 + 4 * 250)	1,660	1,321	1,237	0		30.38	1,266
GIRAL (IPP) LTPS(2 * 125)	250	0	0	0		0	0
KALISINDH TPS(2 * 600)	1,200	503	402	0		10.16	423
KAWAI TPS(2 * 660)	1,320	887	850	0		21.59	900
KOTA TPS(2 * 110 + 2 * 195 + 3 * 210)	1,240	830	651	0		17.65	735
RAJWEST (IPP) LTPS(8 * 135)	1,080	853	641	0		15.16	632
SURATGARH TPS(6 * 250)	1,500	576	525	0		12.7	529
VSLPP (IPP)(1 * 135)	135	105	73	0		2	83
Total THERMAL	8,635	5,189	4,601			114.17	4,757
DHOLPUR GPS(3 * 110)	330	0	0	0		0	0
RAMGARH GPS(1 * 110 + 1 * 35.5 + 1 * 50 + 2 * 37.5)	271	118	120	0		2.93	122
Total GAS/NAPHTHA/DIESEL	601	118	120			2.93	122
RAPS-A(1 * 100 + 1 * 200)	300	0	0	0		0	0
Total NUCLEAR	300	0	0			0	0
TOTAL HYDRO RAJASTHAN(1 * 550)	550	0	0	0		0	0
Total HYDEL	550	0	0			0	0
WIND	4,292	1,930	2,321	0		52.39	2,183
BIOMASS(1 * 102)	102	13	13	0		0.3	13
SOLAR(1 * 1995)	1,995	37	0	0		11.22	468
Total RAJASTHAN	16,475	7,287	7,055			181.01	7,543

UTTAR PRADESH							
Station/Constituents	Inst. Capacity	20:00	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	1,299	1,297	0		27.4	1,142
ANPARA-C TPS(2 * 600)	1,200	1,110	819	0		18.9	788
ANPARA-D TPS(2 * 500)	1,000	946	933	0		20.4	850
BAJAJ ENERGY PVT LTD (IPP) TPS(10 * 45)	450	160	160	0		3.2	133
BARA PPGCL TPS(3 * 660)	1,980	917	684	0		17.5	729
HARDUAGANJ TPS(1 * 105 + 1 * 60 + 2 * 250)	665	446	253	0		7.2	300
LALITPUR TPS(3 * 660)	1,980	0	0	0		0	0
OBRA TPS (2 * 94 + 5 * 200)	1,188	452	547	0		10.3	429
PANKI TPS(2 * 105)	210	0	0	0		0	0
PARICHA TPS(2 * 110 + 2 * 210 + 2 * 250)	1,160	776	534	0		13.8	575
ROSA TPS(4 * 300)	1,200	801	607	0		15.5	646
TANDA TPS(4 * 110)	440	384	249	0		6.4	267
Total THERMAL	13,103	7,291	6,083			140.6	5,859
ALAKHANDA HEP(4 * 82.5)	330	340	340	0		7.3	304
VISHNUPARYAG HPS(4 * 110)	440	395	435	0		10.3	429
OTHER HYDRO UP(1 * 527)	527	62	62	0		1.7	71
Total HYDEL	1,297	797	837			19.3	804
WIND	0	0	0	0		0	0
BIOMASS(1 * 26)	26	0	0	0		0	0
SOLAR(1 * 472)	472	0	0	0		1.1	46
CO-GENERATION(1 * 1360)	1,360	50	50	0		1.2	50
Total OTHERs	1,360	50	50			1.2	50
Total UP	16,258	8,138	6,970			162.2	6,759

UTTARAKHAND							
Station/Constituents	Inst. Capacity	20:00	03:00	Day Peak		Day Energy	AVG. MW
	(MW)	Peak MW	Off Peak MW	(MW)	Hrs	(MU)	
TOTAL GAS UK(1 * 450)	450	0	0	0		0	0
Total GAS/NAPHTHA/DIESEL	450	0	0			0	0
OTHER HYDRO UK(1 * 1250)	1,250	906	857	970	14:00	21.4	892
Total HYDEL	1,250	906	857			21.4	892
WIND	0	0	0	0		0	0
BIOMASS(1 * 127)	127	0	0	0		0	0
SOLAR(1 * 100)	100	0	0	57	14:00	0.24	10
SMALL HYDRO(1 * 180)	180	0	0	0		0	0
Total SMALL HYDRO	180	0	0			0	0
Total UTTARAKHAND	2,107	906	857			21.64	902

3(B) Regional Entities Generation

Station/Constituents	Inst. Capacity	Declared Capacity	20:00	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	714.09	1,196	517	1,196	20:00	17.14	17.36	723	0.22
DEHAR HPS(6 * 165)	990	602.33	825	495	825	20:00	14.46	14.48	603	0.02
PONG HPS(6 * 66)	396	209.22	264	198	264	20:00	5.02	5.04	210	0.02
Sub-Total	2,765	1,525.64	2,285	1,210	-	-	36.62	36.88	1,536	0.26
NHPC										
BAIRASIUL HPS(3 * 60)	180	70.63	122	104	122	20:00	1.7	1.84	77	0.14
CHAMERA HPS(3 * 180)	540	534.33	540	542	543	01:30	12.8	12.95	540	0.15
CHAMERA II HPS(3 * 100)	300	287.55	200	303	305	05:00	6.24	6.23	260	-0.01
CHAMERA III HPS(3 * 77)	231	200.59	234	233	235	01:00	4.79	4.9	204	0.11
DHAULIGANGA HPS(4 * 70)	280	138.7	289	0	289	20:00	3.15	3.56	148	0.41
DULHASTI HPS(3 * 130)	390	380.66	401	391	401	20:00	9.14	9.28	387	0.14
KISHANGANGA(2 * 110)	220	146.67	173	174	175	22:00	3.52	3.59	150	0.07
PARBATI III HEP(4 * 130)	520	55.51	0	110	524	06:30	1.33	1.37	57	0.04
SALAL HPS(6 * 115)	690	688.25	706	702	706	07:00	16.52	16.96	707	0.44
SEWA-II HPS(3 * 40)	120	119.54	84	120	123	22:00	1	0.97	40	-0.03
TANAKPUR HPS(1 * 31.42 + 2 * 31.4)	94	66.72	93	97	97	03:00	1.6	1.66	69	0.06
URI HPS(4 * 120)	480	254.27	255	183	255	20:00	6.1	6.6	275	0.5
URI-II HPS(4 * 60)	480	143.42	126	158	222	14:00	3.44	3.53	147	0.09
Sub-Total	4,525	3,086.84	3,223	3,117	-	-	71.33	73.44	3,061	2.11
NPCL										
NAPS(2 * 220)	440	377	409	417	424	08:00	9.05	9.1	379	0.05
RAPS-B(2 * 220)	440	356	399	400	400	03:00	8.54	8.56	357	0.02
RAPS-C(2 * 220)	440	409	450	449	452	23:00	9.82	9.72	405	-0.1
Sub-Total	1,320	1,142	1,258	1,266	-	-	27.41	27.38	1,141	-0.03
NTPC										
ANTA GPS(1 * 153.2 + 3 * 88.71)	419	404.86	0	0	0	-	0	0	0	0
AURAIYA GPS(2 * 109.3 + 4 * 111.19)	663	638.09	0	0	0	-	0	0	0	0
DADRI GPS(2 * 154.51 + 4 * 130.19)	830	609.58	147	119	155	20:30	2.82	2.7	113	-0.12
DADRI SOLAR(1 * 5)	5	0.62	0	0	3	12:05	0.01	0.01	0	0
DADRI-I TPS(4 * 210)	840	782.1	362	307	362	20:00	9.78	10.79	450	1.01
DADRI-II TPS(2 * 490)	980	928.55	512	783	512	20:00	15.74	16.76	698	1.02
ISTPP (JHAJJAR)(3 * 500)	1,500	947.5	952	772	952	20:00	17.42	17.19	716	-0.23
KOLDAM HPS(4 * 200)	800	872	869	788	870	19:00	19.01	19.31	805	0.3
RIHAND-I STPS(2 * 500)	1,000	741.9	0	1,001	1,001	-	16.77	15.9	663	-0.87
RIHAND-II STPS(2 * 500)	1,000	942.5	968	1,006	1,006	-	22.19	22.05	919	-0.14
RIHAND-III STPS(2 * 500)	1,000	942.5	1,004	988	1,004	-	20.7	20.95	873	0.25
SINGRAULI STPS(2 * 500 + 5 * 200)	2,000	1,652.38	1,942	1,432	1,949	19:00	35.4	36.01	1,500	0.61
SINGRAULI SOLAR(1 * 15)	15	2.06	0	0	8	10:30	0.05	0.04	2	-0.01
UNCHAHAH II TPS(2 * 210)	420	382.2	406	260	406	20:00	5.79	6.02	251	0.23
UNCHAHAH III TPS(1 * 210)	210	191.1	204	117	204	20:00	2.89	3.15	131	0.26
UNCHAHAH IV TPS(1 * 500)	500	0	0	0	0	-	0	0	0	0
UNCHAHAH SOLAR(1 * 10)	10	1.1	0	0	0	-	0.03	0.02	1	-0.01
UNCHAHAH TPS(2 * 210)	420	191.1	213	121	213	20:00	2.82	3.17	132	0.35
Sub-Total	12,612	10,230.14	7,579	7,694	-	-	171.42	174.07	7,254	2.65
SJVNL										
NATHPA-JHAKRI HPS(6 * 250)	1,500	1,605	1,641	1,632	1,641	19:00	38.52	38.91	1,621	0.39
RAMPUR HEP(6 * 68.67)	412	442	447	447	450	23:00	10.61	10.95	456	0.34
Sub-Total	1,912	2,047	2,088	2,079	-	-	49.13	49.86	2,077	0.73
THDC										
KOTESHWAR HPS(4 * 100)	400	366.25	411	362	412	19:00	8.79	8.84	368	0.05
TEHRI HPS(4 * 250)	1,000	1,064	1,073	1,069	1,073	20:00	25.54	25.43	1,060	-0.11
Sub-Total	1,400	1,430.25	1,484	1,431	-	-	34.33	34.27	1,428	-0.06
Total	24,534	19,461.87	17,917	16,797			390.24	395.9	16,497	5.66

IPP/JV

Station/Constituents	Inst. Capacity	Declared Capacity	20:00	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	202	107	202	20:00	2.96	3.08	128	0.12
BUDHIL HPS (IPP)(2 * 35)	70	0	70	70	70	20:00	1.78	1.58	66	-0.2
KARCHAM WANGTOO HPS(4 * 250)	1,000	0	1,100	1,100	1,100	19:00	26.08	26.43	1,101	0.35
MALANA2(2 * 50)	100	0	107	105	108	23:00	2.3	2.37	99	0.07
SAINJ HEP(2 * 50)	50	0	110	110	110	00:00	1.44	1.16	48	-0.28
SHREE CEMENT (IPP) TPS(2 * 150)	300	0	288	140	296	22:00	4.31	4.15	173	-0.16
Sub-Total	1,712	0	1,877	1,632	-	-	38.87	38.77	1,615	-0.1
Total	1,712	0	1,877	1,632	-	-	38.87	38.77	1,615	-0.1

Summary Section					
	Inst. Capacity	PEAK	OFF-PEAK	Day Energy	Day AVG.
Total State Control Area Generation	53,966	25,846	23,525	591.56	24,648
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]		11,824	10,716	250.93	13,036
Total Regional Availability(Gross)	80,212	57,464	52,670	1,277.16	55,796

Total Hydro Generation					
	Inst. Capacity	PEAK	OFF-PEAK	Day Energy	Day AVG.
Regional Entities Hydro	12,814	11,538	10,117	248.38	10,349
State Control Area Hydro	6,125	4,185	4,198	101.55	4,231
Total Regional Hydro	18,939	15,723	14,315	349.93	14,580

Total Renewable Generation					
	Inst. Capacity	PEAK	OFF-PEAK	Day Energy	Day AVG.
Regional Entities Renewable	30	0	0	0.07	3
State Control Area Renewable	9,214	2,369	2,724	84.56	3,523
Total Regional Renewable	9,244	2,369	2,724	84.63	3,526

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

SL.No.	Element	20:00	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	-	-	-	-	0	0	0
2	132KV-Karmnasa(PG)-Sahupuri(U ..	-	-	-	-	0	0	0
3	132KV-Rihand-Sonnagar(PG)	-	-	-	-	0	0.57	-0.57
4	220KV-Pusauli(PG)-Sahupuri(UP)	149	133	149	0	3.27	0	3.27
5	400KV-Biharsharif(PG)-Baliala(PG)	43	33	104	0	1.36	0	1.36
6	400KV-Biharsharif(PG)-Varanasi(P..	143	133	53	173	0	1.75	-1.75
7	400KV-Fatehpur(UP)-Sasaram	-	-	-	-	-	-	-
8	400KV-Motihari(DMT)-Gorakhpur ..	-290	-168	0	302	0	4.51	-4.51
9	400KV-Muzaffarpur(PG)-Gorakhp ..	163	160	517	0	6.99	0	6.99
10	400KV-Patna(PG)-Baliala(PG)	618	504	925	0	16.28	0	16.28
11	400KV-Sasaram-Allahabad(PG)	-4	2	40	7	0.34	0	0.34
12	400KV-Sasaram-Varanasi(PG)	146	143	147	0	3.18	0	3.18
13	765KV-Fatehpur(PG)-Sasaram.	-309	-281	0	309	0	4.67	-4.67
14	765KV-Gaya(PG)-Baliala(PG)	218	146	229	0	3.56	0	3.56
15	765KV-Gaya(PG)-Varanasi(PG)	69	56	224	107	1.65	0	1.65
16	HVDC800KV-Alipurduar-Agra(PG)	1,200	500	1,800	0	20	0	20
Sub-Total EAST REGION		2,146	1,361	4,188	898	56.63	11.5	45.13
Import/Export between NORTH_EAST REGION and NORTH REGION								
1	HVDC800KV-BiswanathCharialli- ..	500	200	500	0	8.88	0	8.88
Sub-Total NORTH_EAST REGION		500	200	500	0	8.88	0	8.88
Import/Export between WEST REGION and NORTH REGION								
1	220KV-Auraiya(NT)-Malanpur(PG)	62	52	-	41	1.12	0	1.12
2	220KV-Badod(MP)-Kota(PG)	16	69	70	-	1.14	0	1.14
3	220KV-Badod(MP)-Modak(RJ)	-	-	-	-	-	-	-
4	400KV-RAPS C(NP)-Sujalpur	220	139	220	94	0	2.64	-2.64
5	400KV-Vindhyachal(PG)-Rihand(N ..	-956	-936	0	958	0	20.95	-20.95
6	400KV-Zerda(PG)-Bhinmal(PG)	38	62	58	248	1.63	0	1.63
7	400KV-Zerda(PG)-Kankroli(RJ)	82	16	43	360	2.76	0	2.76
8	765KV-0rai-Gwalior(PG)	-345	-264	-	351	0	7.34	-7.34
9	765KV-0rai-Jabalpur	1,110	826	1,110	-	19.79	0	19.79
10	765KV-0rai-Satna	1,979	1,822	1,979	-	44.52	0	44.52
11	765KV-Gwalior(PG)-Agra(PG)	2,708	2,428	2,708	0	53.4	0	53.4
12	765KV-Phagi(RJ)-Gwalior(PG)	1,114	991	1,156	-	22.82	0	22.82
13	HVDC500KV-Mundra(JH)-Mohind..	1,000	1,800	1,804	0	35.56	0	35.56
14	HVDC500KV-Vindhyachal(PG)-Vindhaychal B/B	-250	-250	0	250	0	6.06	-6.06
15	HVDC800KV-Champa(PG)-Kuruku..	2,400	2,400	2,400	0	51.17	0	51.17
Sub-Total WEST REGION		9,178	9,155	11,548	2,302	233.91	36.99	196.92
TOTAL IR EXCHANGE		11,824	10,716	16,236	3,200	299.42	48.49	250.93

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	51.81	36.35	-31.21	56.95	54.01	-2.94

NR-WR	144.6	61.83	-4.04	202.39	196.92	-5.47
Total	196.41	98.18	-35.25	259.34	250.93	-8.41

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)	-21.14	-0.02	0	21	0	0.088	0

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	.9	8.5	61.6	81.9	8.8	1.2	0	9.5

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

Maximum		Minimum		Average Frequency	Freq Variation Index	Standard Deviation	Freq. in 15 mnt blk		Freq Dev Index (% of Time)
Frequency	Time	Frequency	Time				Max.	Min.	
50.2	13:01:10	49.75	18:52:40	49.98	0.039	0.059	50.1	49.81	18.1

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	407	06:00	394	19:25	0	0	0	0	0
Abdullapur(PG) - 400KV	407	06:00	394	19:25	0	0	0	0	0
Amritsar(PG) - 400KV	403	07:00	389	11:50	0	.69	0	0	0
Ballabgarh(PG) - 400KV	413	07:00	393	19:25	0	0	0	0	0
Bareilly II(PG) - 400KV	413	06:00	394	19:15	0	0	0	0	0
Bareilly(UP) - 400KV	414	06:00	395	19:25	0	0	0	0	0
Baspa(HP) - 400KV	403	07:05	392	15:20	0	0	0	0	0
Bassi(PG) - 400KV	416	04:00	396	19:25	0	0	0	0	0
Bawana(DTL) - 400KV	411	07:00	394	19:25	0	0	0	0	0
Dadri HVDC(PG). - 400KV	411	06:00	411	06:00	5.9	5.9	0	0	5.9
Gorakhpur(PG) - 400KV	415	07:05	390	19:20	0	1.39	0	0	0
Hisar(PG) - 400KV	406	07:00	388	19:25	0	4.86	0	0	0
Kanpur(PG) - 400KV	420	07:00	404	19:25	0	0	0	0	0
Kashipur(UT) - 400KV	402	00:00	402	00:00	0	0	0	0	0
Kishenpur(PG) - 400KV	408	04:00	398	11:50	0	0	0	0	0
Moga(PG) - 400KV	405	07:00	391	14:25	0	0	0	0	0
Nallagarh(PG) - 400KV	403	07:05	392	15:20	0	0	0	0	0
Rihand HVDC(PG) - 400KV	409	13:15	409	13:15	5.9	5.9	0	0	5.9
Rihand(NT) - 400KV	408	13:00	408	13:00	5.56	5.56	0	0	5.56

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	789	04:00	769	22:25	0	0	0	0	0
Balia(PG) - 765KV	781	07:05	749	19:15	0	0	0	0	0
Bareilly II(PG) - 765KV	789	07:00	752	19:25	0	0	0	0	0
Bhiwani(PG) - 765KV	791	07:05	758	19:20	0	0	0	0	0
Fatehpur(PG) - 765KV	782	07:05	748	19:25	0	0	0	0	0
Jhatikara(PG) - 765KV	786	07:00	750	19:25	0	0	0	0	0
Lucknow II(PG) - 765KV	787	07:05	750	19:25	0	0	0	0	0
Meerut(PG) - 765KV	798	06:00	761	19:25	0	0	0	0	0
Moga(PG) - 765KV	791	07:00	762	19:25	0	0	0	0	0
Phagi(RJ) - 765KV	791	04:05	763	19:20	0	0	0	0	0
Unnao(UP) - 765KV	771	13:00	738	19:25	0	2.78	0	0	0

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

State	Off- Peak Hours (03:00)			Peak Hours (20:00)			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)
JAMMU & KASHMIR	-1,046.16	-70.7	0	-1,046.16	582.68	0	36.79	-25.11	9.93	21.61
DELHI	947.55	-634.11	0	741.66	-305.5	0	78.76	21.5	-8.32	91.94
HARYANA	2,251.83	0.95	0	2,284.27	0	0	113.73	47.24	-1.42	159.55
RAJASTHAN	-85.42	-221.43	0	-334.02	-860.9	0	66.16	-3.11	-14.41	48.63
UTTAR PRADESH	2,358.92	0	0	1,791.57	0	0	130.93	48.68	-6.54	173.07
PUNJAB	2,088.15	0	0	2,093.66	-602.95	0	93.7	50.15	-2.51	141.35
HIMACHAL PRADESH	-1,615.38	-192.85	0	-1,644.63	-268.2	0	39.77	-36.71	-3.05	0.02
UTTARAKHAND	144.06	-336.62	0	114.78	-83.24	0	17.32	2.97	-4.31	15.98
CHANDIGARH	0	-80.39	0	0	-35.17	0	7.33	0	-0.94	6.39
TOTAL	5,043.55	-1,535.15	0	4,001.13	-1,573.28	0	584.49	105.61	-31.57	658.54

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
UTTAR PRADESH	6,669.56	4,270.97	2,376.39	1,776.53	0	-1,218.15	0	0
PUNJAB	4,269.06	3,675.35	2,093.82	2,088.15	0	-602.95	0	0
HIMACHAL PRADESH	1,822.94	1,566.49	-1,433.41	-1,818.86	164.96	-268.2	0	0
UTTARAKHAND	857.73	588.34	144.06	64.43	-52.64	-336.62	0	0
CHANDIGARH	339.02	283.96	0	0	0	-95.47	0	0
JAMMU & KASHMIR	1,696.41	1,403.72	-1,046.16	-1,046.16	622.19	-70.7	0	0
DELHI	3,830.07	2,585.92	1,030.4	741.66	54.46	-795.9	0	0
HARYANA	5,388.01	3,947.79	2,440.51	1,777.24	144.64	-995.79	0	0
RAJASTHAN	3,302.19	2,160.44	-85.42	-334.02	94.49	-2,057.82	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	500.12	1,101	508.95	1,500	988.37	496.76
Chamera-I	748.75	760	754	-	-	-	237.5	351.85
Gandhisagar	295.78	295.78	-	-	-	-	-	0
Jawahar Sagar	295.78	298.7	-	-	-	-	-	0
Koteshwar	598.5	612.5	-	-	-	-	-	0
Pong	384.05	426.72	418.07	808	420.99	931	735.19	296.45
RPS	343.81	352.8	-	-	-	-	-	0
RSD	487.91	527.91	520.77	6	520.18	9	327.22	199.08
Rihand	252.98	268.22	261.79	407	-	-	-	0
Tehri	740.04	829.79	820.1	1,004	817.35	949	528.88	565
TOTAL	-	-	-	3,326	-	3,389	2,817.16	1,909.14

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
--------------	---

10. Zero Crossing Violations

State	No. of violations(Maximum 8 in a day)	Maximum number of continuous blocks without sign change
CHANDIGARH	1	21
DELHI	2	19
HARYANA	0	1
HIMACHAL PRADESH	1	13
JAMMU & KASHMIR	3	26
PUNJAB	0	11
RAJASTHAN	1	17
UP	0	11
UTTARAKHAND	3	19

11. Significant events (If any):

No Records Found

12.Grid Disturbance / Any Other Significant Event:

13.Weather Conditions :

No Records Found

14.Synchronisation of new generating units :

No Records Found

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

No Records Found

16.Tripping of lines in pooling stations :

No Records Found

17.Complete generation loss in a generating station :

No Records Found

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