



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

Power Supply Position in Northern Region For 01-Aug-2020

Date of Reporting:02-Aug-2020

1. Regional Availability/Demand:

Evening Peak (20:00) MW				Off-Peak (03:00) MW				Day Energy(Net MU)	
Demand Met	Shortage	Requirement	Freq (Hz)	Demand Met	Shortage	Requirement	Freq (Hz)	Demand Met	Shortage
55901	270	56171	50.01	54675	2	54677	50.03	1294.15	0.01

2(A)State's Load Deals (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	Others/Biomass/Small Hyd/Co-gen etc.)						
PUNJAB	78.34	21.38	0	3.93	0	3.32	106.97	133.11	132.58	-0.53	239.55	239.55
HARYANA	13.04	0.85	4.58	0.15	0	0.44	19.06	168.82	168.07	-0.75	187.13	187.13
RAJASTHAN	114.48	1.68	2.78	16.31	11.4	0.61	147.26	97.21	95.68	-1.53	242.94	242.94
DELHI	0	0	14.47	0	0	0	14.47	86.49	84.02	-2.47	98.49	98.49
UTTAR PRADESH	180.84	23.57	0	3.63	0	0.6	208.64	200.68	198.02	-2.66	406.66	406.66
UTTARAKHAND	0	19.02	0	0.46	0	0	19.48	17.93	18.16	0.23	37.64	37.64
HIMACHAL	0	20.91	0	0	0	15.32	36.23	-4.42	-6.28	-1.86	29.96	29.96
J&K(UT) &	0	26.3	0	0	0	0	26.3	18.35	20.45	2.1	46.75	46.75
CHANDIGARH	0	0	0	0	0	0	0	5.56	5.04	-0.52	5.04	5.04
Region	386.7	113.71	21.83	24.48	11.4	20.29	578.41	723.73	712.74	-7.99	1297.5	1294.15

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

State	Evening Peak (20:00) MW				Off-Peak (03:00) MW			
	Demand Met	Shortage	UI	STOA/PX/RTM Transaction	Demand Met	Shortage	UI	STOA/PX/RTM
PUNJAB	10100	0	1	1876	10059	0	-101	1876
HARYANA	8198	0	4	2489	7961	0	-222	2257
RAJASTHAN	9287	0	173	171	9590	0	65	282
DELHI	3852	0	25	765	4536	0	-3	898
UTTAR PRADESH	19054	270	-54	1795	18562	0	-424	1712
UTTARAKHAND	1817	0	120	41	1343	0	-94	-103
HIMACHAL	1126	0	-52	-1580	962	2	-76	-1735
J&K(UT) &	2244	0	-89	-411	1448	0	-17	-1101
CHANDIGARH	223	0	-18	-55	214	0	7	-50
Region	55901	270	110	5091	54675	2	-865	4036

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 during at maximum demand	Requirement at the max demand met of the day	Maximum Requirement of the day	Time	Shortage during at maximum Requirement	Demand Met at maximum requirement
PUNJAB	10642	23:00	0	10642	10642	23:00	0	10642
HARYANA	8524	21:00	0	8524	8524	21:00	0	8524
RAJASTHAN	11354	12:00	0	11354	11354	12:00	0	11354
DELHI	5049	1:00	0	5049	5049	1:00	0	5049
UP	20820	22:00	0	20820	20820	22:00	0	20820
UTTARAKHAND	1817	20:00	0	1817	1817	20:00	0	1817
HP	1301	11:00	0	1301	1301	11:00	0	1301
J&K(UT)&Ladakh	2306	15:00	0	2306	2306	15:00	0	2306
CHANDIGARH	234	1:00	0	234	234	1:00	0	234
NR	59163	22:00	0	59163	59163	22:00	0	59163

3(A) State Entities Generation:

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

Station/Constituents	Inst. Capacity (MW)	20:00	03:00	Day Peak		Day Energy (MU)	AVG. MW
	(MW)	Peak MW	Off Peak MW	(MW)	Hrs	(MU)	
BAWANA GPS(2 * 283 + 4 * 216)	1370	312	133	0		6.08	253
DELHI GAS TURBINES(3 * 34 + 6 * 30)	282	73	73	0		1.85	77
PRAGATI GAS TURBINES(1 * 121.2 + 2 * 118.8)	452	265	270	0		6.54	273
RITHALA GPS(3 * 36)	108	0	0	0			
Total GAS/NAPHTHA/DIESEL	2212	650	476			14.47	603
WIND	0	0	0	0			
BIOMASS(52)	52	0	0	0			
SOLAR(2)	2	0	0	0			
Total DELHI	2266	650	476			14.47	603

Station/Constituents	Inst. Capacity (MW)	20:00	03:00	Day Peak		Day Energy (MU)	AVG. MW
	(MW)	Peak MW	Off Peak MW	(MW)	Hrs	(MU)	
DCRTPP (VAMUNA NAGAR)(2 * 300)	600	345	349	0		8.25	344
JHAJJAR(CLP)(2 * 660)	1320	0	0	0			
MAGNUM DIESEL (IPP)(4 * 6.3)	25	0	0	0			
PANIPAT TPS(1 * 210 + 2 * 250)	710	196	203	0		4.78	199
RGTPP KHEJAR(2 * 600)	1200	0	0	0			
Total THERMAL	3855	541	552			13.03	543
FARIDABAD GPS(1 * 156.07 + 2 * 137.75)	432	164	287	0		4.58	191
Total GAS/NAPHTHA/DIESEL	432	164	287			4.58	191
TOTAL HYDRO HARYANA(64.8)	65	32	40	0		0.85	35
Total HYDEL	65	32	40			0.85	35
WIND	0	0	0	0			
BIOMASS(106)	106	0	0	0		0.44	18
SOLAR(55.8)	56	0	0	0		0.15	6
Total HARYANA	4514	737	879			19.05	793

Station/Constituents	Inst. Capacity (MW)	20:00	03:00	Day Peak		Day Energy (MU)	AVG. MW
	(MW)	Peak MW	Off Peak MW	(MW)	Hrs	(MU)	
BASPA (IPP) HPS(3 * 100)	300	331	331	331	01:00	7.92	330
MALANA (IPP) HPS(2 * 43)	86	101	96	101	20:00	2.34	98

MALANA(2 * 50)	100	112	111	113.61	11:00	2.66	111
OTHER HYDRO HP(372)	372	332	332	0		7.99	333
Total HYDEL	858	876	870			20.91	872
WIND	0	0	0	0			
BIOMASS	0	0	0	0			
SOLAR(1 * 18.9)	19	0	0	9.1618	13:00	0	0
SMALL HYDRO(486)	486	659	629	0		15.32	638
Total SMALL HYDRO	486	659	629			15.32	638
Total HP	1363	1535	1499			36.23	1510

J&K(UT) & LADAKH(UT)

Station/Constituents	Inst. Capacity (MW)	20:00 Peak MW	03:00 Off Peak MW	Day Peak (MW) Hrs		Day Energy (MU)	AVG. MW
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	0	0	0		21.16	882
OTHER HYDRO/IPP J&K(308)	308	0	0	0		5.14	77
Total HYDEL	1208	0	0			26.3	959
WIND	0	0	0	0			
BIOMASS	0	0	0	0			
SOLAR	0	0	0	0			
SMALL HYDRO(98)	98	0	0	0			
Total SMALL HYDRO	98	0	0			0	0
Total J&K(UT)&Ladakh(UT)	1496	0	0			23.01	959

PUNJAB

Station/Constituents	Inst. Capacity (MW)	20:00 Peak MW	03:00 Off Peak MW	Day Peak (MW) Hrs		Day Energy (MU)	AVG. MW
GOINDWAL(GVK)(2 * 270)	540	290	290	413		7.13	297
GURU GOBIND SINGH TPS (ROPAR) 4 *	840	146	293	293		5.33	222
GURU HARGOBIND SINGH TPS (LEHRA	920	156	156	189		3.78	158
RAJPURA(NPL) TPS(2 * 700)	1400	1320	1320	1320		29.55	1231
TALWANDI SABO TPS(3 * 660)	1980	1365	1613	1821		32.55	1356
Total THERMAL	5680	3277	3672			78.34	3264
ANANADPUR SAHIB HYDRO PLANT(2 *	134	119	122	122		2.95	123
MUKERIAN HYDRO PLANT(6 * 15 + 6 *	225	156	198	199		4.27	178
RANJIT SAGAR POWER PLANT (4 * 150)	600	300	300	300		7.19	300
SHANAN(4 * 15 + 1 * 50)	110	110	110	110		2.63	110
UBDC(3 * 15 + 3 * 15.5)	92	82	82	82		1.97	82
OTHER HYDRO PUNJAB	0	0	0	0		2.38	99
Total HYDEL	1161	767	812			21.39	892
WIND	0	0	0	0			
BIOMASS(303)	303	0	0	0		3.32	138
SOLAR(859)	859	0	0	495		3.93	164
Total PUNJAB	8003	4044	4484			106.98	4458

RAJASTHAN

Station/Constituents	Inst. Capacity (MW)	20:00 Peak MW	03:00 Off Peak MW	Day Peak (MW) Hrs		Day Energy (MU)	AVG. MW
BARSINGAR (IPP) LTPS(2 * 125)	250	0	0	0			
CHHABRA TPS(2 * 660 + 4 * 250)	2320	1502	1692	0		39.64	1652
GIRAL (IPP) LTPS(2 * 125)	250	0	0	0			
KALISINDH TPS(2 * 600)	1200	429	553	0		12.45	519
KAWAI TPS(2 * 660)	1320	1052	1168	0		26.32	1097
KOTA TPS(2 * 110 + 2 * 195 + 3 * 210)	1240	597	679	0		15.53	647
RAJWEST (IPP) LTPS(8 * 135)	1080	607	604	0		14.3	596
SRATGARH TPS(6 * 250)	1500	177	173	0		3.42	143
VSLPP(IPP)(1 * 135)	135	120	113	0		2.82	118
Total THERMAL	9295	4484	4982			114.48	4772
DHOLPUR GPS(3 * 110)	330	48	0	0		0.77	32
RAMGARH GPS(1 * 110 + 1 * 35.5 + 1 * 50 +	271	82	84	0		2.01	84
Total GAS/NAPHTHA/DIESEL	601	130	84			2.78	116
RAPS-A(1 * 100 + 1 * 200)	300	0	0	0			
Total NUCLEAR	300	0	0			0	0
TOTAL HYDRO RAJASTHAN(550)	550	70	68	0		1.68	70
Total HYDEL	550	70	68			1.68	70
WIND	4292	687	363	0		11.4	475
BIOMASS(102)	102	26	26	0		0.61	25
SOLAR(3045)	3045	59	0	0		16.31	680
Total RAJASTHAN	18185	5456	5523			147.26	6138

UTTAR PRADESH

Station/Constituents	Inst. Capacity (MW)	20:00 Peak MW	03:00 Off Peak MW	Day Peak (MW) Hrs		Day Energy (MU)	AVG. MW
ANPARA TPS(2 * 500 + 3 * 210)	1630	1294	1332	0		29.37	1224
ANPARA-C TPS(2 * 600)	1200	1092	1096	0		23.94	998
ANPARA-D TPS(2 * 500)	1000	306	471	0		10.14	423
BAJAJ ENERGY PVT LTD (IPP) TPS(10 *	450	256	221	0		5.48	228
BARA PPGCL TPS(3 * 660)	1980	1175	1168	0		23.66	986
HARDUAGANJ TPS(1 * 105 + 1 * 60 + 2 *	665	327	338	0		6.77	282
LALITPUR TPS(3 * 660)	1980	1091	1022	0		18.44	768
MEJA TPS(1 * 660)	660	380	585	0		11.29	470
OBRA TPS(3 * 94 + 5 * 200)	1188	611	526	0		12.99	541
PARICHIA TPS(2 * 110 + 2 * 210 + 2 * 250)	1380	810	666	0		13.65	569
ROSA TPS(4 * 300)	1200	1060	1060	0		18.74	781
TANDA TPS(4 * 110)	440	400	240	0		6.39	266
Total THERMAL	13773	8802	8715			180.86	7536
ALAKHANANDA HEP(4 * 82.5)	330	342	342	0		7.94	331
VISHNU-PARYAG HPS(4 * 110)	440	436	436	0		10.49	437
OTHER HYDRO UP(527)	527	289	280	0		5.14	214
Total HYDEL	1297	1067	1058			23.57	982
WIND	0	0	0	0			
BIOMASS(26)	26	0	0	0			
SOLAR(798)	798	0	0	0		3.63	151
CO-GENERATION(1360)	1360	25	25	0		0.6	25
Total OTHERs	1360	25	25			0.6	25
Total UP	17254	9894	9798			208.66	8694

UTTARAKHAND

Station/Constituents	Inst. Capacity (MW)	20:00 Peak MW	03:00 Off Peak MW	Day Peak (MW) Hrs		Day Energy (MU)	AVG. MW
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Station/Constituents		(MW)	Peak MW	Off Peak MW	(MW)		Hrs	(MU)	AVG. MW	
TOTAL GAS UK(675)		675	0	0	0					
Total GAS/NAPTHA/DIESEL		675	0	0				0	0	
OTHER HYDRO UK(1250)		1250	795	787	803		17:00	19.02	793	
Total HYDEL		1250	795	787				19.02	793	
WIND		0	0	0	0					
BIOMASS(127)		127	0	0	0					
SOLAR(100)		100	0	0	60		13:00	0.46	19	
SMALL HYDRO(180)		180	0	0	0					
Total SMALL HYDRO		180	0	0				0	0	
Total UTTARAKHAND		2332	795	787				19.48	812	
3(B) Regional Entities Generation										
Station/Constituents	Inst. Capacity	Declared Capacity	20:00	03:00	Day Peak		Day Energy			
	(MW)	(MW)	Peak MW	Off Peak MW	(MW)	Hrs	SCHD (MU)	ACT (MU)	AVG. MW	UI
Aravali Power Company Private Ltd										
ISTPP (JHAJJAR)(3 * 500)	1500	1414	0	0	0	-	0	-	-	0
Sub-Total	1500	1414	0	0	-	-	0	0	0	0
BBMB										
BHAKRA HPS(2 * 108 + 3 * 126 + 5 * 157)	1379	1378	1394	674	1394	20:00	21.07	21.17	882	0.1
DEHAR HPS(6 * 165)	990	790	810	580	810	20:00	13.67	13.85	577	0.18
PONG HPS(6 * 66)	396	305	310	190	310	20:00	4.92	5.05	210	0.13
Sub-Total	2765	2473	2514	1444	-	-	39.66	40.07	1669	0.41
NHPC										
BAIRASIUL HPS(3 * 60)	180	122	120	120	121	23:00	1.95	1.97	82	0.02
CHAMERA HPS(3 * 180)	540	550	535	536	538	10:15	12.8	12.87	536	0.07
CHAMERA II HPS(3 * 100)	300	100	100	99	100	20:00	2.36	2.36	98	0
CHAMERA III HPS(3 * 77)	231	240	238	237	238	20:00	5.66	5.67	236	0.01
DHAULIGANGA HPS(4 * 70)	280	293	289	291	291	19:00	6.76	6.91	288	0.15
DULHASTI HPS(3 * 130)	390	405	401	400	401	21:00	9.25	9.45	394	0.2
KISHANGANGA(3 * 110)	330	223	225	222	225	08:00	5.29	5.36	223	0.07
PARBATI III HEP(4 * 130)	520	120	123	130	396	23:15	3.93	4.01	167	0.08
PARBATI-II(4 * 200)(Infir)	800	-	0	0	0	-	-	-	-	0
SALAL HPS(6 * 115)	690	683	721	715	721	14:00	16.39	17.02	709	0.63
SEWA-II HPS(3 * 40)	120	131	121	0	122	23:00	0.8	0.8	33	0
TANAKPUR HPS(1 * 31.42 + 2 * 31.4)	94	90	100	99	101	23:59	2.16	2.31	96	0.15
URI HPS(4 * 120)	480	340	343	342	351	14:00	8.24	8.32	347	0.08
URI-II HPS(4 * 60)	240	225	244	235	244	18:00	5.49	5.62	234	0.13
Sub-Total	5195	3522	3560	3426	-	-	81.08	82.67	3443	1.59
NPCL										
NAPS(2 * 220)	440	368	406	410	417	02:00	8.83	8.92	372	0.09
RAPS-B(2 * 220)	440	332	378	376	381	23:00	7.97	8.02	334	0.05
RAPS-C(2 * 220)	440	200	221	222	222	01:00	4.8	4.69	195	-0.11
Sub-Total	1320	900	1005	1008	-	-	21.6	21.63	901	0.03
NTPC										
ANTA GPS(1 * 153.2 + 3 * 88.71)	419	0	266	329	340	22:28	6.82	6.85	285	0.03
AURAIYA GPS(2 * 109.3 + 4 * 111.19)	663	311	192	192	201	01:00	4.48	4.47	186	-0.01
DADRI GPS(2 * 154.51 + 4 * 130.19)	830	570	118	116	123	-	2.9	2.74	114	-0.16
DADRI SOLAR(5)	5	5	0	0	3	12:00	0.03	0.02	1	-0.01
DADRI-I TPS(4 * 210)	840	769	106	106	106	20:00	3.37	2.63	110	-0.74
DADRI-II TPS(2 * 490)	980	924	254	254	254	20:00	6.34	6.1	254	-0.24
KOLDAM HPS(4 * 200)	800	872	869	870	875	01:00	20.93	21	875	0.07
RIHAND-I STPS(2 * 500)	1000	890	950	955	950	20:00	19.94	20.66	861	0.72
RIHAND-II STPS(2 * 500)	1000	938	1012	1002	1012	20:00	21.2	21.43	893	0.23
RIHAND-III STPS(2 * 500)	1000	938	980	1007	980	20:00	22.05	22.52	938	0.47
SINGRAULI STPS(2 * 500 + 5 * 200)	2000	1515	1658	1626	1658	20:00	35.18	35.35	1473	0.17
SINGRAULI SOLAR(15)	15	15	0	0	0	-	0.07	0.06	3	-0.01
TANDA TPS STAGE-II(1 * 660)	660	622	640	640	640	20:00	12.9	11.65	485	-1.25
UNCHAHAR I(2 * 210)	420	382	246	245	246	20:00	5.13	5.13	214	0
UNCHAHAR II TPS(2 * 210)	420	382	258	249	258	20:00	5.07	5.31	221	0.24
UNCHAHAR III TPS(1 * 210)	210	191	125	118	125	20:00	2.54	2.61	109	0.07
UNCHAHAR IV TPS(1 * 500)	500	471	280	289	280	20:00	6.48	6.52	272	0.04
UNCHAHAR SOLAR(10)	10	10	0	0	0	-	0.02	0.01	0	-0.01
Sub-Total	11772	9805	7954	7998	-	-	175.45	175.06	7294	-0.39
SJVNL										
NATHPA-JHAKRI HPS(6 * 250)	1500	1610	1630	1633	1639	18:00	38.64	38.91	1621	0.27
RAMPUR HEP(6 * 68.67)	412	444	446	445	447	04:00	10.65	10.71	446	0.06
Sub-Total	1912	2054	2076	2078	-	-	49.29	49.62	2067	0.33
THDC										
KOTESHWAR HPS(4 * 100)	400	390	400	90	400	21:00	3.33	3.39	141	0.06
TEHRI HPS(4 * 250)	1000	832	835	0	845	23:00	8.25	8.35	348	0.1

Sub-Total	1400	1222	1235	90	-	-	11.58	11.74	489	0.16
Total	25864	21390	18344	16044			378.66	380.79	15863	2.13
IPP/JV										
	Inst. Capacity	Declared Capacity	20:00	03:00	Day Peak		Day Energy			
Station/Constituents	(MW)	(MW)	Peak MW	Off Peak MW	(MW)	Hrs	SCHD (MU)	ACT (MU)	AVG. MW	UI
IPP										
ADHPL(IPP) HPS(2 * 96)	192	0	202	178	231	06:00	4.55	4.82	201	0.27
BUDHIL HPS (IPP)(2 * 35)	70	0	76	75	76	01:00	1.8	1.8	75	0
KARCHAM WANGTOO HPS(4 * 250)	1000	0	1100	1100	1100	20:00	26.08	26.44	1102	0.36
SAINJ HEP(2 * 50)	100	0	110	110	110	20:30	2.59	2.6	108	0.01
SHREE CEMENT (IPP) TPS(2 * 150)	300	0	0	0	0	-	0	-	-	0
Sub-Total	1662	0	1488	1463	-	-	35.02	35.66	1486	0.64
SOLAR IPP										
ACME CHITTORGARH SOLAR ENERGY PVT LTD(1 * 250)	250	250	0	0	186	12:52	1.24	1.25	52	0.01
ADANI GREEN ENERGY NINETEEN LTD	50	-	22	0	22	20:00	-	0.13	5	0.13
ADANI RENEWABLE ENERGY RJ LIMITED (ARERJ)(1 * 200)	200	200	0	0	217	14:15	1.15	1.36	57	0.21
AZURE POWER INDIA PVT LTD(4 * 50)	200	200	0	0	182	11:00	1.19	1.39	58	0.2
AZURE POWER THIRTY FOUR PRIVATE LTD(1 * 130)	130	130	0	0	128	12:17	0.88	0.87	36	-0.01
CLEAN SOLAR POWER (BHAD) PVT LTD(1 * 300)	300	300	0	0	300	13:25	2.1	2.36	98	0.26
MUS KILAJ SOLAR (MAHARASHTRA) PRIVATE RENEW SOLAR POWER PVT LTD(50)	50	50	0	0	56	14:15	0.32	0.33	14	0.01
RENEW SOLAR POWER PVT LTD, BIKANER(1 * 250)	50	50	0	0	50	13:09	0.36	0.39	16	0.03
RENEW SOLAR POWER PVT LTD, BIKANER(1 * 250)	250	250	0	0	254	12:10	1.68	1.88	78	0.2
SB ENERGY FOUR PVT LTD(2 * 100)	200	200	0	0	200	13:30	1.34	1.45	60	0.11
TATA POWER RENEWABLE ENERGY LTD(1 * 150)	150	150	0	0	153	14:32	1	0.96	40	-0.04
Sub-Total	1830	1780	22	0	-	-	11.26	12.37	514	1.11
Total	3492	1780	1510	1463			46.28	48.03	2000	1.75
Summary Section										
	Inst. Capacity	PEAK	OFF-PEAK		Day Energy		Day AVG.			
Total State Control Area Generation	55413	23111	23446		575.14		23967			
J. Net Inter Regional Exchange (Import		12792	12787		304.17		16193			
Total Regional Availability(Gross)	84769	55757	53740		1308.13		58023			
Total Hydro Generation										
	Inst. Capacity	PEAK	OFF-PEAK		Day Energy		Day AVG.			
Regional Entities Hydro	13434	11742	9371		240.76		10029			
State Control Area Hydro	6389	3607	3635		110.43		4603			
Total Regional Hydro	19823	15349	13006		351.19		14632			
Total Renewable Generation										
	Inst. Capacity	PEAK	OFF-PEAK		Day Energy		Day AVG.			
Regional Entities Renewable	1860	22	0		12.46		518			
State Control Area Renewable	10651	1431	1018		55.57		2314			
Total Regional Renewable	12511	1453	1018		68.03		2832			
4(A) INTER-REGIONAL EXCHANGES (Import=(+ve)/Export =(-ve))										
Sl. No.	Element	20:00 (MW)	03:00 MW	Maximum Interchange (MW)		Import (MW)	Export (MW)	Import in MU	Export in MU	NET
Import/Export between EAST REGION and NORTH REGION										
1	132KV-Garbwa-Rihand	-	-	-	-	-	-	-	-	-
2	132KV-Karimsa (PG)-Sabupuri(UP)	-	-	-	-	-	0.96	0	0	0.96
3	132KV-Rihand-Sonagar (PG)	16	29	-	32	0	0	0.59	-0.59	-0.49
4	220KV-Pusauli (PG)-Sabupuri(UP)	114	117	118	0	2.25	0	2.25	0	2.25
5	400KV-Biharsharif (PG)-Balai(PG)	166	171	264	0	4.59	0	4.59	0	4.59
6	400KV-Biharsharif (PG)-Varanasi(PG)	57	38	66	83	0	0	0.09	-0.09	-0.09
7	400KV-Motihari (DMT)-Gorakhpur(UP)	313	278	368	0	6.33	0	6.33	0	6.33
8	400KV-Muzaffarpur (PG)-	210	336	478	0	7.52	0	7.52	0	7.52
9	400KV-Patna (PG)-Balai(PG)	764	674	940	0	16.91	0	16.91	0	16.91
10	400KV-Sasaram-Allahabad (PG)	116	120	147	0	3.14	0	3.14	0	3.14
11	400KV-Sasaram-Varanasi (PG)	-272	-273	279	0	6.17	0	6.17	0	6.17
12	765KV-Fatehpur (PG)-Sasaram.	-167	-109	0	167	0	2.18	-2.18	0	-2.18
13	765KV-Gaya (PG)-Balai(PG)	379	336	475	0	3.89	0	3.89	0	3.89
14	765KV-Gaya (PG)-Varanasi(PG)	-506	-289	279	0	9.16	0	9.16	0	9.16
15	HVDC800KV-Alipurduar-Agra (PG)	1800	1800	1800	0	43.16	0	43.16	0	43.16
Sub-Total EAST REGION	2990	3228	5214	282	104.08	2.86	101.22			
Import/Export between NORTH EAST REGION and NORTH REGION										
1	HVDC800KV-BiswanathChariali-Agra	700	700	700	0	14.6	0	14.6		
Sub-Total NORTH EAST REGION	700	700	700	0	14.6	0	14.6			
Import/Export between WEST REGION and NORTH REGION										
1	220KV-Auraiya (NT)-Malanpur(PG)	-43	-99	-	191	0	2.37	-2.37		
2	220KV-Bhanpur-Modak	62	70	101	-	0.18	0	0.18		
3	220KV-Ranpur-Bhanpur	54	56	92	-	1.49	0	1.49		
4	400KV-RAPS C (NP)-Sujalpur	-400	-300	94	59	6.56	0	6.56		
5	400KV-Vindhyachal (PG)-Rihand(NT)	931	950	-	961	0	22.52	-22.52		
6	400KV-Zerda (PG)-Bhimnall(PG)	36	90	262	185	2.27	0	2.27		
7	400KV-Zerda (PG)-Kankroli(RJ)	139	21	147	93	0.68	0	0.68		
8	765KV-Orai-Gwalior (PG)	-361	-368	0	421	0	8.64	-8.64		
9	765KV-Orai-Jabalpur	1897	1695	2120	0	38.92	0	38.92		
10	765KV-Orai-Satna	1304	1224	1480	0	29.58	0	29.58		
11	765KV-Chittorgarh-Banaskata D/C	-533	-479	973	0	10.68	0	10.68		
12	765KV-Gwalior (PG)-Agra(PG)	2199	1903	2549	0	44.71	0	44.71		
13	765KV-Phagi (RJ)-Gwalior(PG)	1167	1049	1350	-	24.14	0	24.14		
14	HVDC500KV-Mundra (JH)-	900	1497	1503	0	24.43	0	24.43		
15	HVDC500KV-Vindhyachal (PG)-	150	-50	150	-50	1.72	0.69	1.03		
16	HVDC800KV-Champa (PG)-	1600	1600	1600	0	37.21	0	37.21		
Sub-Total WEST REGION	9102	8859	12421	1860	222.57	34.22	188.35			
TOTAL IR EXCHANGE	12792	12787	18335	2142	341.25	37.08	304.17			
4(B) Inter Regional Schedule & Actual Exchange (Import=(+ve)/Export =(-ve)) in MU										
	ISGS/(LT+MT) Schedule	BILT Schedule	PX Schedule	RTM Schedule	Total IR Schedule	Total IR Actual	NET IR UI			
NR-ER	63.24	3.57	20.78	1.36	88.95	101.22	12.27			
NR-WR	162.51	66.74	0.67	-3.3	226.62	188.35	-38.27			

Total	225.75	70.31	21.45	-1.94	315.57	304.17	-11.4			
5.Inter National Exchange with Nepal [Import (+ve)/Export(-ve)] [Linkwise]										
Element	Peak MW	Off-Peak MW	Maximum Interchange(MW)			Energy (MU)		Net Energy (MU)		
			Import	Export		Import	Export			
132KV-Tanakpur(NH)-Mahendranagar(PG)	52	13		54		0.48	-0.48			
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	.3	4.1	50	87.4	7.8	.7	0	8.5
<-----Frequency (Hz)----->										
Maximum		Minimum			Average		Freq	Freq. in 15 mnt blk		Freq Dev Index
Frequency	Time	Frequency	Time	Frequency	Index	Deviation	Max.	Min.	(% of Time)	
50.16	16:05:40	49.76	18:29:00	49.99		0.024	0.049	50.08	49.86	12.6
6.Voltage Profile: 400kV										
	Maximum		Minimum		Voltage (in %)				Voltage	
					< 380	< 390	> 420	> 430	(% of time)	
Abdullapur(PG) -	418	04:00	405	22:20	0	0	0	0	0	
Amritsar(PG) -	411	08:00	400	22:20	0	0	0	0	0	
Ballabgarh(PG) -	417	07:00	398	22:20	0	0	0	0	0	
Bareilly II(PG) -	417	18:05	397	20:15	0	0	0	0	0	
Bareilly(UP) -	418	18:05	398	22:20	0	0	0	0	0	
Baspa(HP) -	407	02:45	398	22:15	0	0	0	0	0	
Bassi(PG) - 400KV	421	16:00	399	22:20	0	0	.35	0	.35	
Bawana(DL) -	417	07:00	399	22:20	0	0	0	0	0	
Dadri HVDC(PG) -	418	07:00	402	22:20	0	0	0	0	0	
Gorakhpur(PG) -	420	17:40	396	22:25	0	0	.69	0	.69	
Hisar(PG) - 400KV	416	04:00	399	22:20	0	0	0	0	0	
Kanpur(PG) -	417	17:40	399	22:20	0	0	0	0	0	
Kashipur(UT) -	420	06:00	410	22:20	0	0	0	0	0	
Kishenpur(PG) -	415	04:00	407	20:15	0	0	0	0	0	
Moga(PG) - 400KV	409	04:00	396	22:20	0	0	0	0	0	
Nallagarh(PG) -	407	02:45	398	22:15	0	0	0	0	0	
Rihand HVDC(PG)	407	17:35	400	22:15	0	0	0	0	0	
Rihand(NT) -	406	17:35	399	22:15	0	0	0	0	0	
6.1 Voltage Profile: 765kV										
	Maximum		Minimum		Voltage (in %)				Voltage	
					< 728	< 742	> 800	> 820		
Anta RS(RJ) -	792	17:35	763	22:45	0	0	0	0	0	
Bali(PG) - 765KV	782	17:40	749	22:20	0	0	0	0	0	
Bareilly II(PG) -	796	18:05	757	22:20	0	0	0	0	0	
Bhiwani(PG) -	793	03:40	763	00:00	0	0	0	0	0	
Fatehpur(PG) -	786	16:05	746	19:25	0	0	0	0	0	
Jhatikara(PG) -	791	04:00	755	22:20	0	0	0	0	0	
Lucknow II(PG) -	793	17:40	753	22:25	0	0	0	0	0	
Meerut(PG) -	789	07:00	753	00:05	0	0	0	0	0	
Moga(PG) - 765KV	790	04:00	754	12:15	0	0	0	0	0	
Phagi(RJ) - 765KV	794	04:05	760	22:15	0	0	0	0	0	
Unnao(UP) -	770	00:00	770	00:00	0	0	0	0	0	
7(A). Short-Term Open Access Details:										
	Off- Peak Hours (03:00)					Peak Hours (20:00)				
State	Bilateral (MW)	IEX (MW)	IEX RTM (MW)	PXIL (MW)	PXI RTM (MW)	Bilateral (MW)	IEX (MW)	IEX RTM (MW)	PXIL (MW)	PXI RTM (MW)
PUNJAB	1876.34	0	0	0	0	1876.34	0	0	0	0
HARYANA	925.27	1331.75	0	0	0	925.27	1563.44	0	0	0
RAJASTHAN	58.35	28.79	195.18	0	0	58.35	112.9	0	0	0
DELHI	889.64	58.46	-50.21	0	0	410.01	344.83	9.78	0	0
UTTAR PRADESH	1589.41	104.92	17.66	0	0	934.2	854.26	6.87	0	0
UTTARAKHAND	-353.21	250.13	0	0	0	-353.21	394.42	0	0	0
HIMACHAL PRADESH	-1131.35	-603.5	0	0	0	-789.88	-791.64	1.08	0	0
J&K(UT) & LADAKH(UT)	-62.93	-886.85	-151	0	0	-65.5	-164.28	-181.2	0	0
CHANDIGARH	0	-50.21	0	0	0	0	-55.23	0	0	0
TOTAL	3791.52	233.49	11.63	0	0	2995.58	2258.7	-163.47	0	0
Day Energy (MU)										
State	ISGS/(LT+MT) Schedule		BILT Schedule		PX Schedule	RTM Schedule		Total (MU)		
PUNJAB	88.22		45.03		-0.15	0		133.11		
HARYANA	116.37		22.21		30.25	0		168.82		
RAJASTHAN	82.96		1.4		8.73	4.13		97.21		
DELHI	64.67		17.7		4.93	-0.8		86.49		
UTTAR PRADESH	181.25		14.8		4.38	0.26		200.68		
UTTARAKHAND	18.6		-8.48		7.81	0.01		17.93		
HIMACHAL PRADESH	32.99		-21.34		-16.1	0.03		-4.42		
J&K(UT) & LADAKH(UT)	34.78		-1.56		-9.45	-5.41		18.35		
CHANDIGARH	6.4		0		-0.83	0		5.56		
TOTAL	626.24		69.76		29.57	-1.78		723.73		
7(B). Short-Term Open Access Details										
	ISGS/(LT+MT) Schedule		Bilateral (MW)		IEX (MW)		PXIL (MW)			
State	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum		
PUNJAB	3638.3	2618.32	1876.34	1876.34	0	-151	0	0	0	
HARYANA	2525.71	2039.8	925.27	925.27	1638.23	316.76	0	0	0	
RAJASTHAN	3452.35	2467.32	58.35	58.35	1159.37	7.1	0	0	0	
DELHI	2192.64	1683.26	1105.15	397.19	801.64	-70.38	0	0	0	
UTTAR PRADESH	6013.31	3465.68	1641.4	90.88	1646.06	-1468.78	0	0	0	
UTTARAKHAND	902.35	530.07	-353.21	-353.21	467.89	185.39	0	0	0	
HIMACHAL PRADESH	1458.25	1283.4	-778.92	-1132.36	-569.71	-854.57	0	0	0	
J&K(UT) & LADAKH(UT)	1624.41	1261.72	-62.93	-68.21	-125.83	-986.51	0	0	0	
CHANDIGARH	303.29	226.09	0	0	14.71	-75.31	0	0	0	

		IEX RTM (MW)		PXI RTM (MW)	
State		Maximum	Minimum	Maximum	Minimum
PUNJAB		0	0	0	0
HARYANA		0	0	0	0
RAJASTHAN		683.13	0	0	0
DELHI		98.83	-214.9	0	0
UTTAR PRADESH		28.45	6.87	0	0
UTTARAKHAND		3.24	0	0	0
HIMACHAL PRADESH		7.89	0	0	0
J&K(UT) & LADAKH(UT)		0	-704.65	0	0
CHANDIGARH		0	0	0	0

8.Major Reservoir Particulars									
RESERVOIR	Parameters			Present Parameters		LAST YEAR		LAST DAY	
	MDDL (Mts)	FRL (Mts)	Energy Content at FRL	Level (Mts)	Energy (MU)	Level (Mts)	Energy (MU)	Inflow (m3/s)	Usage (m3/s)
Bhakra	445.62	513.59	1728.8	493.93	858	503.51	1246	1197.69	665.84
Chamera-I	748.75	760	753.95	755.97	13	-	-	334.07	349.03
Gandhisagar	381	399.9	725	-	-	-	-	-	0
Jawahar Sagar	295.78	298.7	2.01	-	-	-	-	-	0
Koteshwar	598.5	612.5	610.73	611	5	611.16	5	222	224.06
Pong	384.05	426.72	1084	408.65	454	409.88	494	853.53	329.1
RPS	343.81	352.8	175.66	-	-	-	-	-	0
RSD	487.91	527.91	390.3	509.51	209	515.75	277	394.4	301.65
Rihand	252.98	268.22	860.5	259.57	281	255.57	99	-	17907.53
Tehri	740.04	829.79	1291.49	786.4	404	779.7	317	750.61	222
TOTAL	-	-	-	-	2224	-	2438	3752.3	19999.21

9. System Reliability Indices(Violation of TTC and ATC):	
(i)%age of times N-1 Criteria was violated in the inter - regional corridors	
WK	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	13	
DELHI	5	51	
HARYANA	1	16	
HIMACHAL PRADESH	4	47	
J&K(UT) & Ladakh(UT)	1	15	
PUNJAB	2	15	
RAJASTHAN	3	31	
UTTAR PRADESH	0	11	
UTTARAKHAND	2	14	

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 :	

16.Tripping of lines in pooling stations :	

17.Complete generation loss in a generating station :	

18.Remarks :	
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