



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

Power Supply Position in Northern Region For 27-Aug-2018

Date of Reporting:28-Aug-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
53,852	1,137	54,989	49.88	48,211	241	48,452	50.04	1,198	10.52

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	OthersBiomass/Small Hyd/Co-gen etc.)	Total						
PUNJAB	80.41	15.82	0	5.8	0	2.26	104.28	146.28	145.66	-0.62	249.94	0	249.94
HARYANA	33.82	0.77	0	0.11	0	0.56	35.26	143.27	143.19	-0.08	178.45	0	178.45
RAJASTHAN	114.94	0.01	2.82	11.61	9.69	0.31	139.38	73.09	75.49	2.4	214.87	0	214.87
DELHI	6.6	0	16.78	0	0	1.09	24.47	87.52	87.28	-0.24	111.75	0	111.75
UTTAR PRADESH	133.6	20.4	0	2.1	0	1.2	157.3	170.36	171.29	0.93	328.59	0	328.59
UTTARAKHAND	0	20.99	0	0.48	0	0	21.47	15.25	14.54	-0.71	36.01	0	36.01
HIMACHAL PRADESH	0	18.54	0	0	0	9.06	27.6	-2.1	1.25	3.35	28.85	0	28.85
JAMMU & KASHMIR	0	24.05	0	0	0	0	24.05	20.31	19.54	-0.77	54.11	10.52	43.59
CHANDIGARH	0	0	0	0	0	0	0	6.68	5.88	-0.8	5.88	0	5.88
Region	369.37	100.58	19.6	20.1	9.69	14.48	533.81	660.66	664.12	3.46	1,208.45	10.52	1,197.93

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

State	Evening Peak (20:00) MW				Off-Peak (03:00) MW			
	Demand Met	Shortage(-)/Surpl ..	UI	STOA/PX Transaction	Demand Met	Shortage(-)/Surpl ..	UI	STOA/PX Transaction
PUNJAB	10,519	0	-116	1,750	9,423	0	-23	2,053
HARYANA	8,170	0	-97	2,186	7,326	0	11	2,303
RAJASTHAN	8,716	0	-253	-144	8,578	0	256	228
DELHI	4,818	0	-4	56	4,480	0	138	115
UTTAR PRADESH	16,027	580	49	1,308	14,659	0	158	1,610
UTTARAKHAND	1,826	0	23	142	1,218	0	-30	-210
HIMACHAL PRADESH	1,286	0	126	-1,689	961	0	154	-1,825
JAMMU & KASHMIR	2,229	557	189	-513	1,368	241	-34	-1,117
CHANDIGARH	260	0	-36	-40	197	0	-44	-35
Region	53,851	1,137	-119	3,056	48,210	241	586	3,122

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	Demand Met at maximum requiremnet	Time	Shortage(-)/Surplus(+) during at maximum Requirement	Maximum Requirement of the day
PUNJAB	10,826	15:00	0	10,826	10,826	15:00	0	10,826
HARYANA	8,353	23:00	0	8,353	8,353	23:00	0	8,353
RAJASTHAN	9,870	24:00	0	9,870	9,870	24:00	0	9,870
DELHI	5,378	24:00	0	5,378	5,378	24:00	0	5,378
UP	16,300	22:00	130	16,430	16,300	22:00	130	16,430
UTTARAKHAND	1,826	20:00	0	1,826	1,826	20:00	0	1,826
HP	1,371	11:00	0	1,371	1,371	11:00	0	1,371
J&K	2,229	20:00	557	2,786	2,229	20:00	557	2,786
CHANDIGARH	294	15:00	0	294	294	15:00	0	294
NR	54,516	23:00	398	54,914	54,516	23:00	398	54,914

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	303	302	0		6.6	275
RAJGHAT TPS(2 * 67.5)	135	0	0	0		0	0
Total THERMAL	840	303	302			6.6	275
BAWANA GPS(2 * 253 + 4 * 216)	1,370	433	428	0		10.31	430
DELHI GAS TURBINES(3 * 34 + 6 * 30)	282	75	76	0		1.88	78
PRAGATI GAS TURBINES(1 * 121.2 + 2 * 104.6)	331	144	145	0		4.58	191
RITHALA GPS(3 * 36)	108	0	0	0		0	0
Total GAS/NAPHTHA/DIESEL	2,091	652	649			16.77	699
WIND	0	0	0	0		0	0
BIOMASS(1 * 16)	16	39	36	0		1.09	45
SOLAR(1 * 2)	2	0	0	0		0	0
Total DELHI	2,949	994	987			24.46	1,019

HARYANA							
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	476	474	482	19:00	11.13	464
JHAJJAR(CLP)(2 * 660)	1,320	766	738	766	20:00	17.84	743
MAGNUM DIESEL (IPP)(4 * 6.3)	25	0	0	0		0	0
PANIPAT TPS(2 * 210 + 2 * 250)	920	198	195	201	21:00	4.85	202
RGTPP(KHEDAR)(2 * 600)	1,200	0	0	0		0	0
Total THERMAL	4,065	1,440	1,407			33.82	1,409
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	24	28	22:00	0.77	32
Total HYDEL	62	28	24			0.77	32
WIND	0	0	0	0		0	0
BIOMASS(1 * 106)	106	0	0	0		0.56	23
SOLAR(1 * 50)	50	0	0	0		0.11	5
Total HARYANA	4,715	1,468	1,431			35.26	1,469

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	330	330	330		7.91	330
MALANA (IPP) HPS(2 * 43)	86	81	88	88		1.91	80
OTHER HYDRO HP(1 * 372)	372	375	371	0		8.71	363
Total HYDEL	758	786	789			18.53	773
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	399	379	0		9.06	378
Total SMALL HYDRO	486	399	379			9.06	378
Total HP	1,244	1,185	1,168			27.59	1,151

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	882	0		20.59	858
OTHER HYDRO/IPP J&K(1 * 308)	308	174	155	0		3.47	145
Total HYDEL	1,208	1,057	1,037			24.06	1,003
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	1,037			24.06	1,003

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	0	145	246		2.19	91
GURU GOBIND SINGH TPS (ROPAR)(6 * 210)	1,260	554	293	558		10.53	439
GURU HARGOBIND SINGH TPS (LEHRA MOHABBAT)(2 * 210 + 2 * 250)	920	575	535	595		10.72	447
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		31.52	1,313
TALWANDI SABO TPS(3 * 660)	1,980	1,220	833	1,220		25.46	1,061
Total THERMAL	6,560	3,669	3,126			80.4	3,350
TOTAL HYDRO PUNJAB(1 * 1000)	1,000	658	574	658		15.82	659
Total HYDEL	1,000	658	574			15.82	659
WIND	0	0	0	0		0	0
BIOMASS(1 * 303)	303	0	0	0		2.26	94
SOLAR(1 * 859)	859	0	0	501		5.8	242
Total PUNJAB	8,722	4,327	3,700			104.28	4,345

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	227	226	0		5.27	220
CHHABRA TPS(1 * 660 + 4 * 250)	1,660	1,200	1,066	0		26.38	1,099
GIRAL (IPP) LTPS(2 * 125)	250	0	0	0		0	0
KALISINDH TPS(2 * 600)	1,200	543	406	0		9.61	400
KAWAI TPS(2 * 660)	1,320	1,160	858	0		22.21	925
KOTA TPS(2 * 110 + 2 * 195 + 3 * 210)	1,240	669	660	0		16.05	669
RAJWEST (IPP) LTPS(8 * 135)	1,080	847	639	0		16.52	688
SURATGARH TPS(6 * 250)	1,500	728	695	0		16.89	704
VSLPP (IPP)(1 * 135)	135	105	75	0		2.01	84
Total THERMAL	8,635	5,479	4,625			114.94	4,789
DHOLPUR GPS(3 * 110)	330	0	0	0		0	0
RAMGARH GPS(1 * 110 + 1 * 35.5 + 1 * 50 + 2 * 37.5)	271	112	115	0		2.82	118
Total GAS/NAPHTHA/DIESEL	601	112	115			2.82	118
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	10	0		0.01	0
Total HYDEL	550	0	10			0.01	0
WIND	4,292	163	712	0		9.69	404
BIOMASS(1 * 102)	102	13	13	0		0.31	13
SOLAR(1 * 1995)	1,995	38	0	0		11.61	484
Total RAJASTHAN	16,475	5,805	5,475			139.38	5,808

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	1,329	1,319	0		28.2	1,175
ANPARA-C TPS(2 * 600)	1,200	1,101	611	0		18.5	771
ANPARA-D TPS(2 * 500)	1,000	941	942	0		20.4	850
BAJAJ ENERGY PVT LTD (IPP) TPS(10 * 45)	450	0	0	0		0	0
BARA PPGCL TPS(3 * 660)	1,980	453	352	0		8.7	363
HARDUAGANJ TPS(1 * 105 + 1 * 60 + 2 * 250)	665	446	255	0		7.2	300
LALITPUR TPS(3 * 660)	1,980	0	693	0		6.9	288
OBRA TPS(2 * 94 + 5 * 200)	1,188	518	503	0		9.3	388
PANKI TPS(2 * 105)	210	0	0	0		0	0
PARICHA TPS(2 * 110 + 2 * 210 + 2 * 250)	1,160	784	470	0		13.1	546
ROSA TPS(4 * 300)	1,200	1,051	592	0		16.5	688
TANDA TPS(4 * 110)	440	252	162	0		4.8	200
Total THERMAL	13,103	6,875	5,899			133.6	5,569
ALAKHANDA HEP(4 * 82.5)	330	335	340	0		7.9	329
VISHNUPARYAG HPS(4 * 110)	440	435	435	0		10.5	438
OTHER HYDRO UP(1 * 527)	527	179	65	0		2	83
Total HYDEL	1,297	949	840			20.4	850
WIND	0	0	0	0		0	0
BIOMASS(1 * 26)	26	0	0	0		0	0
SOLAR(1 * 472)	472	0	0	0		2.1	88
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	7,874	6,789			157.3	6,557

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/NAPTHA/DIESEL	450	0	0			0	0			
OTHER HYDRO UK(1 * 1250)	1,250	882	797	965	14:00	20.99	875			
Total HYDEL	1,250	882	797			20.99	875			
WIND	0	0	0	0		0	0			
BIOMASS(1 * 127)	127	0	0	0		0	0			
SOLAR(1 * 100)	100	0	0	67	14:00	0.48	20			
SMALL HYDRO(1 * 180)	180	0	0	0		0	0			
Total SMALL HYDRO	180	0	0			0	0			
Total UTTARAKHAND	2,107	882	797			21.47	895			

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	677.57	1,166	514	1,166	20:00	16.26	16.3	679	0.04
DEHAR HPS(6 * 165)	990	587.35	825	495	825	20:00	14.1	14.1	588	0
PONG HPS(6 * 66)	396	150.31	264	66	264	20:00	3.61	3.64	152	0.03
Sub-Total	2,765	1,415.23	2,255	1,075	-	-	33.97	34.04	1,419	0.07
NHPC										
BAIRASIUL HPS(3 * 60)	180	113.7	176	122	176	20:00	2.73	2.8	117	0.07
CHAMERA HPS(3 * 180)	540	534.33	539	536	540	11:30	12.8	12.91	538	0.11
CHAMERA II HPS(3 * 100)	300	296.85	306	304	306	20:00	6.62	6.78	283	0.16
CHAMERA III HPS(3 * 77)	231	180	236	157	236	18:00	4.32	4.38	183	0.06
DHAULIGANGA HPS(4 * 70)	280	278.44	274	274	291	19:00	6.64	6.79	283	0.15
DULHASTI HPS(3 * 130)	390	380.66	397	393	398	15:00	9.14	9.29	387	0.15
KISHANGANGA(2 * 110)	220	4.48	0	0	80	00:00	0.11	0.19	8	0.08
PARBATI III HEP(4 * 130)	520	178.78	384	101	510	06:30	4.29	4.27	178	-0.02
SALAL HPS(6 * 115)	690	683.28	712	708	712	20:00	16.4	16.86	703	0.46
SEWA-II HPS(3 * 40)	120	119.54	116	120	122	19:00	1.5	1.51	63	0.01
TANAKPUR HPS(1 * 31.42 + 2 * 31.4)	94	89.06	98	95	98	20:00	2.14	2.21	92	0.07
URI HPS(4 * 120)	480	302.29	272	274	476	07:00	7.26	7.92	330	0.66
URI-II HPS(4 * 60)	480	171.9	165	154	245	00:00	4.13	4.32	180	0.19
Sub-Total	4,525	3,333.31	3,675	3,238	-	-	78.08	80.23	3,345	2.15
NPCL										
NAPS(2 * 220)	440	380	416	420	420	03:00	9.12	9	375	-0.12
RAPS-B(2 * 220)	440	357	398	400	402	06:00	8.57	8.56	357	-0.01
RAPS-C(2 * 220)	440	407	450	451	452	05:00	9.77	9.7	404	-0.07
Sub-Total	1,320	1,144	1,264	1,271	-	-	27.46	27.26	1,136	-0.2
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	634.09	0	0	0	-	0	0	0	0
DADRI GPS(2 * 154.51 + 4 * 130.19)	830	414.48	742	113	742	20:00	5.29	4.73	197	-0.56
DADRI SOLAR(1 * 5)	5	0.46	0	0	0	-	0.01	0.01	0	0
DADRI-I TPS(4 * 210)	840	780.79	450	346	450	20:00	8.43	8.19	341	-0.24
DADRI-II TPS(2 * 490)	980	928.55	881	582	881	20:00	14.35	14.95	623	0.6
ISTPP (JHAJJAR)(3 * 500)	1,500	947.5	901	580	990	20:40	13.95	13.9	579	-0.05
KOLDAM HPS(4 * 200)	800	872	866	871	873	09:00	20.93	20.92	872	-0.01
RIHAND-I STPS(2 * 500)	1,000	922.5	995	951	995	20:00	20.89	23.04	960	2.15
RIHAND-II STPS(2 * 500)	1,000	942.5	1,001	939	1,001	20:00	21.92	23.51	980	1.59
RIHAND-III STPS(2 * 500)	1,000	942.5	979	980	979	20:00	21.39	23.05	960	1.66
SINGRAULI STPS(2 * 500 + 5 * 200)	2,000	1,750	1,912	1,620	1,912	20:00	37.41	38.1	1,588	0.69
SINGRAULI SOLAR(1 * 15)	15	1.64	0	0	0	-	0.04	0.05	2	0.01
UNCHAHAH II TPS(2 * 210)	420	382.2	235	243	235	20:00	5.76	5.89	245	0.13
UNCHAHAH III TPS(1 * 210)	210	191.1	176	116	176	20:00	2.83	3.09	129	0.26
UNCHAHAH IV TPS(1 * 500)	500	0	0	0	0	-	0	0	0	0
UNCHAHAH SOLAR(1 * 10)	10	1.69	0	0	0	-	0.04	0.04	2	0
UNCHAHAH TPS(2 * 210)	420	191.1	195	119	195	20:00	2.94	3.25	135	0.31
Sub-Total	12,612	10,307.96	9,333	7,460	-	-	176.18	182.72	7,613	6.54
SJVNL										
NATHPA-JHAKRI HPS(6 * 250)	1,500	1,605	1,611	1,632	1,644	19:00	38.52	38.89	1,620	0.37
RAMPUR HEP(6 * 68.67)	412	430.14	448	448	450	08:00	10.32	10.59	441	0.27
Sub-Total	1,912	2,035.14	2,059	2,080	-	-	48.84	49.48	2,061	0.64
THDC										
KOTESHWAR HPS(4 * 100)	400	365	401	369	403	19:00	8.76	8.81	367	0.05
TEHRI HPS(4 * 250)	1,000	1,064	1,066	1,070	1,070	03:00	25.54	25.46	1,061	-0.08
Sub-Total	1,400	1,429	1,467	1,439	-	-	34.3	34.27	1,428	-0.03
Total	24,534	19,664.64	20,053	16,563			398.83	408	17,002	9.17

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	196	150	210	21:00	3.63	3.53	147	-0.1
BUDHIL HPS (IPP)(2 * 35)	70	0	75	70	76	23:00	1.58	1.53	64	-0.05
KARCHAM WANGTOO HPS(4 * 250)	1,000	0	1,100	1,100	1,100	19:00	26.08	26.35	1,098	0.27
MALANA2(2 * 50)	100	0	112	109	113	19:00	2.22	2.34	98	0.12
SAINJ HEP(2 * 50)	50	0	110	110	110	00:00	2.59	2.6	108	0.01
SHREE CEMENT (IPP) TPCS 2 * 150)	300	0	255	139	294	23:00	4.27	4.16	173	-0.11
Sub-Total	1,712	0	1,848	1,678	-	-	40.37	40.51	1,688	0.14
Total	1,712	0	1,848	1,678	-	-	40.37	40.51	1,688	0.14

Summary Section					
	Inst. Capacity	PEAK	OFF-PEAK	Day Energy	Day AVG.
Total State Control Area Generation	53,966	23,592	21,384	533.8	22,242
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]		11,832	11,503	245.85	16,153
Total Regional Availability(Gross)	80,212	57,325	51,128	1,228.16	57,083

Total Hydro Generation					
	Inst. Capacity	PEAK	OFF-PEAK	Day Energy	Day AVG.
Regional Entities Hydro	12,814	11,915	10,242	255.29	10,637
State Control Area Hydro	6,125	4,360	4,071	100.58	4,191
Total Regional Hydro	18,939	16,275	14,313	355.87	14,828

Total Renewable Generation					
	Inst. Capacity	PEAK	OFF-PEAK	Day Energy	Day AVG.
Regional Entities Renewable	30	0	0	0.1	4
State Control Area Renewable	9,214	652	1,140	43.07	1,795
Total Regional Renewable	9,244	652	1,140	43.17	1,799

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	-21	-28	-	33	0	0.55	-0.55
2	132KV-Karmnasa(PG)-Sahupuri(UP)	-	-	-	-	0	0	0
3	132KV-Rihand-Sonnagar(PG)	-	-	-	-	0	0	0
4	220KV-Pusauli(PG)-Sahupuri(UP)	-141	-109	141	0	2.7	0	2.7
5	400KV-Biharsharif(PG)-Baliala(PG)	69	18	147	0	2.04	0	2.04
6	400KV-Biharsharif(PG)-Varanasi(PG)	90	105	135	159	0	0.38	-0.38
7	400KV-Fatehpur(UP)-Sasaram	-	-	-	-	-	-	-
8	400KV-Motihari(DMT)-Gorakhpur(UP)	-212	-296	0	310	0	5.08	-5.08
9	400KV-Muzaffarpur(PG)-Gorakhpur(UP)	321	328	578	0	9.95	0	9.95
10	400KV-Patna(PG)-Baliala(PG)	725	755	1,138	0	21.01	0	21.01
11	400KV-Sasaram-Allahabad(PG)	-12	-18	67	0	0.8	0	0.8
12	400KV-Sasaram-Varanasi(PG)	-128	-128	135	0	3.9	0	3.9
13	765KV-Fatehpur(PG)-Sasaram.	-191	-201	0	222	0	3.2	-3.2
14	765KV-Gaya(PG)-Baliala(PG)	206	148	261	0	4.13	0	4.13
15	765KV-Gaya(PG)-Varanasi(PG)	118	12	337	0	3.56	0	3.56
16	HVDC800KV-Alipurduar-Agra(PG)	300	300	700	0	7.75	0	7.75
Sub-Total EAST REGION		1,124	886	3,639	724	55.84	9.21	46.63
Import/Export between NORTH_EAST REGION and NORTH REGION								
1	HVDC800KV-BiswanathCharialli-Agra(PG)	500	500	2,000	0	15.49	0	15.49
Sub-Total NORTH_EAST REGION		500	500	2,000	0	15.49	0	15.49
Import/Export between WEST REGION and NORTH REGION								
1	220KV-Auraiya(NT)-Malanpur(PG)	27	34	59	-	0.66	0	0.66
2	220KV-Badod(MP)-Kota(PG)	10	38	140	-	1.68	0	1.68
3	220KV-Badod(MP)-Modak(RJ)	-	-	-	-	-	-	-
4	400KV-RAPS C(NP)-Sujalpur	243	240	388	0	5.98	0	5.98
5	400KV-Vindhyachal(PG)-Rihand(NT)	940	930	-	942	0	22.51	-22.51
6	400KV-Zerda(PG)-Bhinmal(PG)	96	38	241	27	2.28	0	2.28
7	400KV-Zerda(PG)-Kankroli(RJ)	-83	79	85	136	0	0.29	-0.29
8	765KV-Orai-Gwalior(PG)	-418	-322	418	0	0	8.82	-8.82
9	765KV-Orai-Jabalpur	995	997	1,175	0	22.91	0	22.91
10	765KV-Orai-Satna	1,779	1,748	1,846	0	42.21	0	42.21
11	765KV-Gwalior(PG)-Agra(PG)	2,390	2,350	2,390	0	52.58	0	52.58
12	765KV-Phagi(RJ)-Gwalior(PG)	1,131	1,137	1,446	-	28.55	0	28.55
13	HVDC500KV-Mundra(JH)-Mohindergarh(JH)	1,098	798	2,005	0	24.81	0	24.81
14	HVDC500KV-Vindhyachal(PG)-Vindhyachal B/B	200	250	200	250	1.18	4.52	-3.34
15	HVDC800KV-Champa(PG)-Kurukshetra(PG)(PG)	1,800	1,800	2,200	0	37.03	0	37.03
Sub-Total WEST REGION		10,208	10,117	12,593	1,355	219.87	36.14	183.73
TOTAL IR EXCHANGE		11,832	11,503	18,232	2,079	291.2	45.35	245.85

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	45.24	37.51	-37.32	45.43	62.12	16.69
NR-WR	140.9	67	-1.45	206.45	183.73	-22.72

Total	186.14	104.51	-38.77	251.88	245.85	-6.03
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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)	21.7	0	0	22	0	0.2453	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	1	6.2	59.9	86.3	7.4	.6	0	7.6

<-----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.	
50.16	13:03:30	49.72	19:27:40	49.98	0.03	0.053	50.06	49.81	13.7

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	412	08:00	395	19:25	0	0	0	0	0
Abdullapur(PG) - 400KV	412	08:00	395	19:25	0	0	0	0	0
Amritsar(PG) - 400KV	408	06:00	393	14:55	0	0	0	0	0
Ballabgarh(PG) - 400KV	415	07:05	396	22:10	0	0	0	0	0
Bareilly II(PG) - 400KV	414	07:00	395	19:20	0	0	0	0	0
Bareilly(UP) - 400KV	415	07:00	396	19:20	0	0	0	0	0
Baspa(HP) - 400KV	408	06:00	393	14:55	0	0	0	0	0
Bassi(PG) - 400KV	415	04:00	396	22:15	0	0	0	0	0
Bawana(DTL) - 400KV	413	08:00	396	22:20	0	0	0	0	0
Dadri HVDC(PG). - 400KV	413	07:15	397	22:10	0	0	0	0	0
Gorakhpur(PG) - 400KV	413	07:05	387	19:20	0	3.13	0	0	0
Hisar(PG) - 400KV	408	08:00	390	19:25	0	0	0	0	0
Kanpur(PG) - 400KV	420	07:00	402	19:25	0	0	1.39	0	1.39
Kashipur(UT) - 400KV	402	00:00	402	00:00	0	0	0	0	0
Kishenpur(PG) - 400KV	413	03:55	402	20:10	0	0	0	0	0
Moga(PG) - 400KV	408	08:00	393	14:35	0	0	0	0	0
Nallagarh(PG) - 400KV	408	06:00	393	14:55	0	0	0	0	0
Rihand HVDC(PG) - 400KV	410	08:00	410	08:00	.35	.35	0	0	.35
Rihand(NT) - 400KV	408	11:00	399	21:10	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	789	04:00	768	22:15	0	0	0	0	0
Balia(PG) - 765KV	781	07:05	744	19:20	0	0	0	0	0
Bareilly II(PG) - 765KV	790	07:00	752	19:20	0	0	0	0	0
Bhiwani(PG) - 765KV	793	07:05	761	19:30	0	0	0	0	0
Fatehpur(PG) - 765KV	782	07:00	750	22:15	0	0	0	0	0
Jhatikara(PG) - 765KV	789	07:05	754	22:15	0	0	0	0	0
Lucknow II(PG) - 765KV	787	07:05	747	19:20	0	0	0	0	0
Meerut(PG) - 765KV	799	07:15	764	19:25	0	0	0	0	0
Moga(PG) - 765KV	789	08:00	760	14:35	0	0	0	0	0
Phagi(RJ) - 765KV	0	00:00	0	00:00	100	100	0	0	100
Unnao(UP) - 765KV	773	07:05	734	19:20	0	14.24	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	533.3	0	35.56	-25.11	9.86	20.31
PUNJAB	2,052.54	0	0	2,252.25	-502.46	0	96.35	51.53	-1.61	146.28
UTTARAKHAND	161.09	-371.54	0	131.81	10.61	0	15.21	3.54	-3.48	15.25
RAJASTHAN	164.58	63.51	0	-138.12	-6.24	0	72.18	2.03	-1.12	73.09
CHANDIGARH	0	-35.17	0	0	-40.2	0	7.19	0	-0.51	6.68
UTTAR PRADESH	2,329.32	-719.42	0	1,805.34	-497.76	0	138.82	48.45	-16.91	170.36
HARYANA	2,186.48	116.73	0	2,305.88	-120.3	0	97.88	46.47	-1.09	143.27
HIMACHAL PRADESH	-1,600.67	-224.34	0	-1,657.03	-31.99	0	38.22	-36.5	-3.83	-2.1
DELHI	955.29	-840.12	0	754.07	-698.42	0	80.78	20.62	-13.89	87.52
TOTAL	5,202.47	-2,081.05	0	4,408.04	-1,353.46	0	582.19	111.03	-32.58	660.66

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
JAMMU & KASHMIR	1,648.49	1,297.69	-1,046.16	-1,046.16	582.68	-70.7	0	0
PUNJAB	4,565.69	3,686.46	2,252.25	2,048.25	0	-502.46	0	0
UTTARAKHAND	800.8	461.78	182.31	131.8	10.61	-371.54	0	0
RAJASTHAN	3,716.75	2,198.1	164.58	-138.12	80.54	-1,143.32	0	0
CHANDIGARH	340.79	274.41	0	0	0	-60.3	0	0
UTTAR PRADESH	7,009.68	3,906.42	2,345.81	1,780.84	0	-1,522.69	0	0
HARYANA	4,907.96	3,151.34	2,465.07	1,510.4	135.6	-783.35	0	0
HIMACHAL PRADESH	1,772.08	1,457.7	-1,419.51	-1,834.68	92.47	-264.03	0	0
DELHI	4,063.42	2,882.81	1,041.31	381.57	-168.83	-977.79	0	0

8. Major Reservoir Particulars

RESERVOIR	Parameters			Present Parameters		LAST YEAR		LAST DAY	
	MDDL (Mts)	FRL (Mts)	Energy (MU)	Level (Mts)	Energy (MU)	Level (Mts)	Energy (MU)	Inflow (m3/s)	Usage (m3/s)
Bhakra	445.62	513.59	653	498.79	1,041	508.55	1,470	989.13	477.93
Chamera-I	748.75	760	0	757.73	-	-	-	289.99	350.68
Gandhisagar	295.78	295.78	0	-	-	-	-	-	0
Jawahar Sagar	295.78	298.7	0	-	-	-	-	-	0
Koteshwar	598.5	612.5	5	611.39	5	610.51	5	571	581.1
Pong	384.05	426.72	138	417.49	781	420.83	931	750.14	214.47
RPS	343.81	352.8	0	-	-	-	-	-	0
RSD	487.91	527.91	1	520.16	6	520.7	10	376.84	201.48
Rihand	252.98	268.22	0	-	-	-	-	-	0
Tehri	740.04	829.79	787	818.45	971	814.6	894	485.9	571
TOTAL	-	-	1,584	-	2,804	-	3,310	3,463	2,396.66

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	5	41
DELHI	1	15
HARYANA	0	0
HIMACHAL PRADESH	5	45
JAMMU & KASHMIR	1	13
PUNJAB	0	0
RAJASTHAN	2	16
UTTAR PRADESH	0	0
UTTARAKHAND	2	22

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 :**

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