



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

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

Date of Reporting:28-Oct-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
43,213	1,436	44,649	49.98	34,930	236	35,166	49.98	944	5.45

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	76.75	13.03	0	4.21	0	7.99	101.98	35.79	35.16	-0.63	137.14	0	137.14
HARYANA	29.5	0.95	0	0.12	0	0.58	31.15	94.2	94.88	0.68	126.03	0	126.03
RAJASTHAN	150.68	2.97	1.99	13.89	3.12	4.27	176.91	41.43	42.51	1.08	219.42	0	219.42
DELHI	0	0	17.48	0	0	0	17.48	52.54	51.42	-1.12	68.91	0.01	68.9
UTTAR PRADESH	155.99	11.39	0	2.66	0	2.4	172.43	113.58	112.91	-0.67	285.34	0	285.34
UTTARAKHAND	0	11.67	7.15	0.66	0	0	19.48	16	16.34	0.34	35.82	0	35.82
HIMACHAL PRADESH	0	6.49	0	0	0	4.68	11.16	16.21	17.35	1.14	28.51	0	28.51
JAMMU & KASHMIR	0	7.49	0	0	0	0	7.49	37.89	31.85	-6.04	44.78	5.44	39.34
CHANDIGARH	0	0	0	0	0	0	0	3.26	3.14	-0.12	3.14	0	3.14
Region	412.92	53.99	26.62	21.54	3.12	19.92	538.08	410.9	405.56	-5.34	949.09	5.45	943.64

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	5,575	0	6	-2,104	3,959	0	-27	-1,145
HARYANA	6,161	0	-64	-324	4,696	0	55	230
RAJASTHAN	9,294	0	-366	-1,477	8,515	0	229	-1,406
DELHI	3,450	0	-13	-972	2,303	0	74	-1,555
UTTAR PRADESH	13,581	960	-195	180	11,882	0	-150	558
UTTARAKHAND	1,707	0	-60	126	1,236	0	40	66
HIMACHAL PRADESH	1,376	0	56	-429	914	0	32	58
JAMMU & KASHMIR	1,905	476	-259	242	1,338	236	-173	341
CHANDIGARH	165	0	-31	-50	87	0	-1	-20
Region	43,214	1,436	-926	-4,808	34,930	236	79	-2,873

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
PUNJAB	5,896	9:00	0	5,896	5,896	9:00	0	5,896
HARYANA	6,161	19:00	0	6,161	6,161	19:00	0	6,161
RAJASTHAN	10,903	8:00	0	10,903	10,903	8:00	0	10,903
DELHI	3,450	19:00	0	3,450	3,450	19:00	0	3,450
UP	13,581	19:00	960	14,541	14,541	19:00	960	13,581
UTTARAKHAND	1,754	18:00	0	1,754	1,754	18:00	0	1,754
HP	1,474	9:00	0	1,474	1,474	9:00	0	1,474
J&K	1,905	19:00	476	2,381	2,381	19:00	476	1,905
CHANDIGARH	165	19:00	0	165	165	19:00	0	165
NR	43,213	19:00	1,436	44,649	44,649	19:00	1,436	43,213

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	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	566	498	0		12.7	529
DELHI GAS TURBINES(3 * 34 + 6 * 30)	282	32	36	0		0.91	38
PRAGATI GAS TURBINES(1 * 121.2 + 2 * 104.6)	331	158	157	0		3.86	161
RITHALA GPS(3 * 36)	108	0	0	0			
Total GAS/NAPHTHA/DIESEL	2,091	756	691			17.47	728
WIND	0	0	0	0			
BIOMASS(1 * 16)	16	29	35	0		0	0
SOLAR(1 * 2)	2	0	0	0			
Total DELHI	2,949	785	726			17.47	728

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	0	0	0	00:00	0	0
JHAJJAR(CLP)(2 * 660)	1,320	742	376	802	21:00	14.68	612
MAGNUM DIESEL (IPP)(4 * 6.3)	25	0	0	0			
PANIPAT TPS(2 * 210 + 2 * 250)	920	0	0	0	00:00	0	0
RGTPP(KHEDAR)(2 * 600)	1,200	379	799	1,017	05:00	14.82	618
Total THERMAL	4,065	1,121	1,175			29.5	1,230
FARIDABAD GPS(1 * 156.07 + 2 * 137.75)	432	0	0	0	00:00	0	0
Total GAS/NAPHTHA/DIESEL	432	0	0			0	0
TOTAL HYDRO HARYANA(1 * 62)	62	28	28	29	01:00	0.95	40
Total HYDEL	62	28	28			0.95	40
WIND	0	0	0	0			
BIOMASS(1 * 106)	106	0	0	0		0.58	24
SOLAR(1 * 50)	50	0	0	0		0.12	5
Total HARYANA	4,715	1,149	1,203			31.15	1,299

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	57	76	210	08:00	1.97	82
MALANA (IPP) HPS(2 * 43)	86	52	0	85	18:00	0.49	20
OTHER HYDRO HP(1 * 372)	372	225	141	0		4.02	168
Total HYDEL	758	334	217			6.48	270
WIND	0	0	0	0			
BIOMASS	0	0	0	0			
SOLAR	0	0	0	7,9021	13:00	0	0
SMALL HYDRO(1 * 486)	486	225	171	0		4.68	195
Total SMALL HYDRO	486	225	171			4.68	195
Total HP	1,244	559	388			11.16	465

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	238	236	0		5.68	237
OTHER HYDRO/IPP J&K(1 * 308)	308	103	62	0		1.81	75
Total HYDEL	1,208	341	298			7.49	312
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	341	298			7.49	312

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	160	160	160		10.91	455
GURU GOBIND SINGH TPS (ROPAR)(6 * 210)	1,260	146	339	384		7.47	311
GURU HARGOBIND SINGH TPS (LEHRA MOHABBAT)(2 * 210 + 2 * 250)	920	165	425	428		7.8	325
GURU NANAK DEV TPS (BHATINDA)(4 * 110)	460	0	0	0		-0.02	-1
RAJPURA(NPL) TPS(2 * 700)	1,400	1,320	660	1,320		20.85	869
TALWANDI SABO TPS(3 * 660)	1,980	1,259	1,000	1,350		29.74	1,239
Total THERMAL	6,560	3,050	2,584			76.75	3,198
TOTAL HYDRO PUNJAB(1 * 1000)	1,000	600	318	608		13.03	543
Total HYDEL	1,000	600	318			13.03	543
WIND	0	0	0	0			
BIOMASS(1 * 303)	303	0	0	0		7.99	333
SOLAR(1 * 859)	859	0	0	491		4.21	175
Total PUNJAB	8,722	3,650	2,902			101.98	4,249

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	73	184	0		2.69	112
CHHABRA TPS(1 * 660 + 4 * 250)	1,660	1,522	1,519	0		36.03	1,501
GIRAL (IPP) LTPS(2 * 125)	250	0	0	0			
KALISINDH TPS(2 * 600)	1,200	557	561	0		12.67	528
KAWAI TPS(2 * 660)	1,320	1,250	1,170	0		28.7	1,196
KOTA TPS(2 * 110 + 2 * 195 + 3 * 210)	1,240	1,052	1,044	0		23.3	971
RAJWEST (IPP) LTPS(8 * 135)	1,080	833	854	0		19.99	833
SURATGARH TPS(6 * 250)	1,500	1,341	1,089	0		27.3	1,138
VSLPP (IPP)(1 * 135)	135	0	0	0			
Total THERMAL	8,635	6,628	6,421			150.68	6,279
DHOLPUR GPS(3 * 110)	330	0	0	0			
RAMGARH GPS(1 * 110 + 1 * 35.5 + 1 * 50 + 2 * 37.5)	271	80	82	0		1.99	83
Total GAS/NAPHTHA/DIESEL	601	80	82			1.99	83
RAPS-A(1 * 100 + 1 * 200)	300	163	164	0		3.8	158
Total NUCLEAR	300	163	164			3.8	158
TOTAL HYDRO RAJASTHAN(1 * 550)	550	169	74	0		2.97	124
Total HYDEL	550	169	74			2.97	124
WIND	4,292	104	81	0		3.12	130
BIOMASS(1 * 102)	102	20	20	0		0.47	20
SOLAR(1 * 1995)	1,995	10	0	0		13.89	579
Total RAJASTHAN	16,475	7,174	6,842			176.92	7,373

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	1,342	1,013	0		29.41	1,225
ANPARA-C TPS(2 * 600)	1,200	1,110	1,101	0		25.45	1,060
ANPARA-D TPS(2 * 500)	1,000	956	949	0		21.78	908
BAJAJ ENERGY PVT LTD (IPP) TPS(10 * 45)	450	0	0	0			
BARA PPGCL TPS(3 * 660)	1,980	1,037	1,038	0		22.85	952
HARDUAGANJ TPS(1 * 105 + 1 * 60 + 2 * 250)	665	299	315	0		6.85	285
LALITPUR TPS(3 * 660)	1,980	0	352	0		5.6	233
MEJA TPS(1 * 660)	660	0	0	0			
OBRA TPS (2 * 94 + 5 * 200)	1,188	0	0	0			
PANKI TPS(2 * 105)	210	0	0	0			
PARICHA TPS(2 * 110 + 2 * 210 + 2 * 250)	1,160	860	724	0		16.47	686
ROSA TPS(4 * 300)	1,200	1,051	1,074	0		21.98	916
TANDA TPS(4 * 110)	440	275	230	0		5.6	233
Total THERMAL	13,763	6,930	6,796			155.99	6,498
ALAKHANDA HEP(4 * 82.5)	330	167	172	0		3	125
VISHNUPARYAG HPS(4 * 110)	440	157	147	0		3.65	152
OTHER HYDRO UP(1 * 527)	527	215	111	0		4.74	198
Total HYDEL	1,297	539	430			11.39	475
WIND	0	0	0	0			
BIOMASS(1 * 26)	26	0	0	0			
SOLAR(1 * 472)	472	0	0	0		2.66	111
CO-GENERATION(1 * 1360)	1,360	100	100	0		2.4	100
Total OTHERs	1,360	100	100			2.4	100
Total UP	16,918	7,569	7,326			172.44	7,184

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	292	303	307	07:00	7.15	298			
Total GAS/NAPHTHA/DIESEL	450	292	303			7.15	298			
OTHER HYDRO UK(1 * 1250)	1,250	640	444	640	19:00	11.67	486			
Total HYDEL	1,250	640	444			11.67	486			
WIND	0	0	0	0						
BIOMASS(1 * 127)	127	0	0	0						
SOLAR(1 * 100)	100	0	0	93	12:00	0.66	28			
SMALL HYDRO(1 * 180)	180	0	0	0						
Total SMALL HYDRO	180	0	0			0	0			
Total UTTARAKHAND	2,107	932	747			19.48	812			

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	556.11	923	403	923	19:00	13.35	13.5	563	0.15
DEHAR HPS(6 * 165)	990	267.5	645	165	645	19:00	6.42	6.68	278	0.26
PONG HPS(6 * 66)	396	233.22	330	66	330	19:00	5.6	5.59	233	-0.01
Sub-Total	2,765	1,056.83	1,898	634	-	-	25.37	25.77	1,074	0.4
NHPC										
BAIRASIUL HPS(3 * 60)	180	0	0	0	0	-	0	-	-	0
CHAMERA HPS(3 * 180)	540	401.09	547	0	549	18:30	4.18	4.38	183	0.2
CHAMERA II HPS(3 * 100)	300	157.85	301	29	302	20:00	2.76	2.98	124	0.22
CHAMERA III HPS(3 * 77)	231	218.5	234	0	234	19:00	1.85	1.98	83	0.13
DHAULIGANGA HPS(4 * 70)	280	93.05	143	71	143	19:00	2.21	2.25	94	0.04
DULHASTI HPS(3 * 130)	390	386.9	392	0	399	07:00	5.1	5.22	218	0.12
KISHANGANGA(2 * 110)	220	81.25	202	70	202	19:00	1.95	2.05	85	0.1
PARBATI III HEP(4 * 130)	520	41.82	394	0	398	18:45	1	1.03	43	0.03
SALAL HPS(6 * 115)	690	169.06	520	140	520	19:00	4.06	4.62	193	0.56
SEWA-II HPS(3 * 40)	120	119.54	123	0	125	18:00	0.55	0.6	25	0.05
TANAKPUR HPS(1 * 31.42 + 2 * 31.4)	94	54.58	95	53	95	19:00	1.31	1.36	57	0.05
URI HPS(4 * 120)	480	140.73	70	134	340	21:00	3.38	3.86	161	0.48
URI-II HPS(4 * 60)	480	90.57	79	78	183	02:00	2.17	2.25	94	0.08
Sub-Total	4,525	1,954.94	3,100	575	-	-	30.52	32.58	1,360	2.06
NPCL										
NAPS(2 * 220)	440	395.01	432	439	432	19:00	9.48	9.59	400	0.11
RAPS-B(2 * 220)	440	192	216	220	220	03:00	4.61	4.66	194	0.05
RAPS-C(2 * 220)	440	420	467	466	467	19:00	10.08	10.09	420	0.01
Sub-Total	1,320	1,007.01	1,115	1,125	-	-	24.17	24.34	1,014	0.17
NTPC										
ANTA GPS(1 * 153.2 + 3 * 88.71)	419	133	249	170	258	06:44	4.52	4.5	188	-0.02
AURAIYA GPS(2 * 109.3 + 4 * 111.19)	663	463.83	159	96	164	05:00	3.17	3.24	135	0.07
DADRI GPS(2 * 154.51 + 4 * 130.19)	830	409.01	227	348	348	20:00	6.12	6.24	260	0.12
DADRI SOLAR(1 * 5)	5	0.68	0	0	2	11:50	0.02	0.01	0	-0.01
DADRI-I TPS(4 * 210)	840	514.58	485	362	485	19:00	10.86	10.63	443	-0.23
DADRI-II TPS(2 * 490)	980	828.75	741	881	741	19:00	18.93	19.05	794	0.12
ISTPP (JHAJJAR)(3 * 500)	1,500	947.5	995	928	1,010	16:41	21.83	21.56	898	-0.27
KOLDAM HPS(4 * 200)	800	872	611	0	874	-	4.5	4.6	192	0.1
RIHAND-I STPS(2 * 500)	1,000	922.5	1,025	1,003	1,025	19:00	22.13	22.22	926	0.09
RIHAND-II STPS(2 * 500)	1,000	942.5	1,023	1,004	1,023	19:00	22.61	22.68	945	0.07
RIHAND-III STPS(2 * 500)	1,000	471.25	499	504	499	19:00	11.29	11.46	478	0.17
SINGRAULI STPS(2 * 500 + 5 * 200)	2,000	1,810	1,967	1,960	1,967	19:00	43.44	43.54	1,814	0.1
SINGRAULI SOLAR(1 * 15)	15	2.8	0	0	0	-	0.07	0.07	3	0
UNCHAHAH II TPS(2 * 210)	420	382.2	402	355	402	19:00	8.79	8.2	342	-0.59
UNCHAHAH III TPS(1 * 210)	210	191.1	195	203	195	19:00	4.4	4.18	174	-0.22
UNCHAHAH IV TPS(1 * 500)	500	0	0	0	0	-	0	-	-	0
UNCHAHAH SOLAR(1 * 10)	10	1.97	0	0	7	11:44	0.05	0.04	2	-0.01
UNCHAHAH TPS(2 * 210)	420	382.2	407	392	407	19:00	8.8	8.31	346	-0.49
Sub-Total	12,612	9,275.87	8,985	8,206	-	-	191.53	190.53	7,940	-1
SJVNL										
NATHPA-JHAKRI HPS(6 * 250)	1,500	1,497.38	1,511	0	1,511	19:00	12.2	12.45	519	0.25
RAMPUR HEP(6 * 68.67)	412	442	431	0	431	19:00	3.4	3.59	150	0.19
Sub-Total	1,912	1,939.38	1,942	0	-	-	15.6	16.04	669	0.44
THDC										
KOTESHWAR HPS(4 * 100)	400	96.25	202	70	204	18:00	2.31	2.36	98	0.05
TEHRI HPS(4 * 250)	1,000	1,064	997	0	1,024	20:00	7	7.19	300	0.19
Sub-Total	1,400	1,160.25	1,199	70	-	-	9.31	9.55	398	0.24
Total	24,534	16,394.28	18,239	10,610			296.5	298.81	12,455	2.31

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	94	0	192	19:00	1.01	1.06	44	0.05
BUDHIL HPS (IPP)(2 * 35)	70	0	0	0	0	-	0.51	-	-	-0.51
KARCHAM WANGTOO HPS(4 * 250)	1,000	0	1,000	0	1,000	18:00	6.4	6.43	268	0.03
MALANA2(2 * 50)	100	0	30	0	105	21:00	0.46	0.46	19	0
SAINJ HEP(2 * 50)	50	0	100	55	100	08:00	0.78	0.9	38	0.12
SHREE CEMENT (IPP) TPS(2 * 150)	300	0	298	296	299	18:00	7.16	7.08	295	-0.08
Sub-Total	1,712	0	1,522	351	-	-	16.32	15.93	664	-0.39
Total	1,712	0	1,522	351	-	-	16.32	15.93	664	-0.39

Summary Section					
	Inst. Capacity	PEAK	OFF-PEAK	Day Energy	Day AVG.
Total State Control Area Generation	54,626	22,159	20,432	538.09	22,420
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]		4,854	5,723	108.78	4,179
Total Regional Availability(Gross)	80,872	46,774	37,116	961.61	39,714

Total Hydro Generation					
	Inst. Capacity	PEAK	OFF-PEAK	Day Energy	Day AVG.
Regional Entities Hydro	12,814	9,974	1,334	97.39	4,058
State Control Area Hydro	6,125	2,651	1,809	53.98	2,249
Total Regional Hydro	18,939	12,625	3,143	151.37	6,307

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	388	307	38.38	1,599
Total Regional Renewable	9,244	388	307	38.5	1,604

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 ..	-	-	-	-	0.48	0	0.48
3	132KV-Rihand-Sonnagar(PG)	-32	-30	-	35	0	0.67	-0.67
4	220KV-Pusauli(PG)-Sahupuri(UP)	134	113	145	0	3.03	0	3.03
5	400KV-Biharsharif(PG)-Baliala(PG)	91	23	94	132	0	0.3	-0.3
6	400KV-Biharsharif(PG)-Varanasi(P..	257	105	0	297	0	2.94	-2.94
7	400KV-Fatehpur(UP)-Sasaram	-	-	-	-	-	-	-
8	400KV-Motihari(DMT)-Gorakhpur ..	208	276	316	0	6.23	0	6.23
9	400KV-Muzaffarpur(PG)-Gorakhp ..	-134	48	234	223	0.38	0	0.38
10	400KV-Patna(PG)-Baliala(PG)	253	511	556	0	11.03	0	11.03
11	400KV-Sasaram-Allahabad(PG)	109	132	170	0	3.11	0	3.11
12	400KV-Sasaram-Varanasi(PG)	282	258	290	0	6.39	0	6.39
13	765KV-Fatehpur(PG)-Sasaram.	343	199	0	350	0	4.64	-4.64
14	765KV-Gaya(PG)-Baliala(PG)	13	71	144	0	1.52	0	1.52
15	765KV-Gaya(PG)-Varanasi(PG)	207	-6	-196	259	0	0.22	-0.22
16	HVDC800KV-Alipurduar-Agra(PG)	250	250	-	250	6.15	0	6.15
Sub-Total EAST REGION		1,981	1,950	1,753	1,546	38.32	8.77	29.55
Import/Export between NORTH_EAST REGION and NORTH REGION								
1	HVDC800KV-BiswanathCharialli- ..	600	600	-	700	13.61	0	13.61
Sub-Total NORTH_EAST REGION		600	600	0	700	13.61	0	13.61
Import/Export between WEST REGION and NORTH REGION								
1	220KV-Auraiya(NT)-Malanpur(PG)	-113	-117	-	111	0	2.76	-2.76
2	220KV-Badod(MP)-Kota(PG)	-192	-231	65	270	0	4.45	-4.45
3	220KV-Badod(MP)-Modak(RJ)	-	-	-	-	-	-	-
4	400KV-RAPS C(NP)-Sujalpur	-334	-206	-	-	0	6.85	-6.85
5	400KV-Vindhyachal(PG)-Rihand(N ..	-475	-477	-	489	0	11.46	-11.46
6	400KV-Zerda(PG)-Bhinmal(PG)	-	-	-	-	0	4.79	-4.79
7	400KV-Zerda(PG)-Kankroli(RJ)	0	-248	0	363	0	3.26	-3.26
8	765KV-0rai-Gwalior(PG)	-249	-344	0	366	0	7.58	-7.58
9	765KV-0rai-Jabalpur	-272	69	601	272	0	2.27	-2.27
10	765KV-0rai-Satna	1,423	1,509	1,611	0	34.98	0	34.98
11	765KV-Gwalior(PG)-Agra(PG)	776	1,103	1,402	-	24.86	0	24.86
12	765KV-Phagi(RJ)-Gwalior(PG)	358	767	1,111	-	16.12	0	16.12
13	HVDC500KV-Mundra(JH)-Mohind..	601	598	1,003	0	15.93	0	15.93
14	HVDC500KV-Vindhyachal(PG)-Vindhaychal B/B	-250	-250	0	250	0	6.04	-6.04
15	HVDC800KV-Champa(PG)-Kuruku..	1,000	1,000	1,000	0	23.19	0	23.19
Sub-Total WEST REGION		2,273	3,173	6,793	2,121	115.08	49.46	65.62
TOTAL IR EXCHANGE		4,854	5,723	8,546	4,367	167.01	58.23	108.78

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	43.78	-0.71	-2.42	40.65	29.55	-11.1

NR-WR	152.45	-6.48	-58.69	87.28	65.62	-21.66
Total	196.23	-7.19	-61.11	127.93	108.78	-19.15

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)	0	0	0	14	0	0.0212	-0.0212

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	.2	10.8	61.2	80.9	7	1.3	0	8.3

<-----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	13:04:40	49.78	17:44:20	49.98	0.041	0.06	50.11	49.84	19.1

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	427	21:00	409	09:25	0	0	35.07	0	35.07
Abdullapur(PG) - 400KV	427	21:00	409	09:25	0	0	35.07	0	35.07
Amritsar(PG) - 400KV	426	21:00	410	09:25	0	0	28.82	0	28.82
Ballabgarh(PG) - 400KV	422	20:55	406	09:30	0	0	5.9	0	5.9
Bareilly II(PG) - 400KV	416	13:05	403	09:30	0	0	0	0	0
Bareilly(UP) - 400KV	418	13:05	404	16:20	0	0	0	0	0
Baspa(HP) - 400KV	427	21:10	410	18:25	0	0	27.08	0	27.08
Bassi(PG) - 400KV	419	21:00	399	06:25	0	0	0	0	0
Bawana(DTL) - 400KV	424	20:55	410	09:25	0	0	16.32	0	16.32
Dadri HVDC(PG). - 400KV	421	21:00	408	09:30	0	0	3.47	0	3.47
Gorakhpur(PG) - 400KV	417	13:05	401	18:25	0	0	0	0	0
Hisar(PG) - 400KV	422	20:55	404	09:25	0	0	3.47	0	3.47
Kanpur(PG) - 400KV	424	13:05	412	17:45	0	0	2.78	0	2.78
Kashipur(UT) - 400KV	402	00:00	402	00:00	0	0	0	0	0
Kishenpur(PG) - 400KV	419	03:00	405	18:20	0	0	0	0	0
Moga(PG) - 400KV	419	20:55	402	09:25	0	0	0	0	0
Nallagarh(PG) - 400KV	427	21:10	410	18:25	0	0	27.08	0	27.08
Rihand HVDC(PG) - 400KV	409	13:05	403	06:40	0	0	0	0	0
Rihand(NT) - 400KV	408	13:05	402	06:40	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	791	20:05	773	06:40	0	0	0	0	0
Balia(PG) - 765KV	790	13:05	762	18:25	0	0	0	0	0
Bareilly II(PG) - 765KV	795	13:05	770	17:40	0	0	0	0	0
Bhiwani(PG) - 765KV	804	20:35	775	09:15	0	0	10.07	0	10.07
Fatehpur(PG) - 765KV	766	04:00	754	09:10	0	0	0	0	0
Jhatikara(PG) - 765KV	800	20:55	778	16:20	0	0	.35	0	.35
Lucknow II(PG) - 765KV	794	13:05	768	18:25	0	0	0	0	0
Meerut(PG) - 765KV	811	20:55	772	09:35	0	0	11.81	0	11.81
Moga(PG) - 765KV	798	20:55	758	09:25	0	0	0	0	0
Phagi(RJ) - 765KV	797	13:05	774	08:20	0	0	0	0	0
Unnao(UP) - 765KV	782	13:05	761	18:25	0	0	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	-1,044.11	-100.93	0	-640.39	-1,463.46	0	62.79	-17.59	-9.41	35.79
HARYANA	229.55	0.49	0	282.95	-607.1	0	94.95	6.17	-6.93	94.2
RAJASTHAN	-8.18	-1,397.32	0	-8.18	-1,469.28	0	65.75	-0.25	-24.07	41.43
DELHI	-290.67	-1,264.47	0	-280.38	-691.63	0	79.02	-8.57	-17.91	52.54
UTTAR PRADESH	557.64	0	0	170.03	9.81	0	108.63	4.98	-0.03	113.58
UTTARAKHAND	61.74	4.52	0	120.44	5.41	0	12.08	1.92	2	16
HIMACHAL PRADESH	61.1	-3.06	0	60.35	-488.89	0	17.78	3.14	-4.71	16.21
JAMMU & KASHMIR	143.63	197.66	0	143.63	98.83	0	26.94	3.45	7.49	37.89
CHANDIGARH	0	-20.13	0	0	-50.34	0	3.88	0	-0.62	3.26
TOTAL	-289.3	-2,583.24	0	-151.55	-4,656.65	0	471.82	-6.75	-54.19	410.9

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	3,560.24	2,222.81	-640.39	-1,044.11	0	-1,564.39	0	0
HARYANA	4,933.96	3,383.95	303.22	212.35	0.49	-1,113.02	0	0
RAJASTHAN	3,612.32	2,098.8	-8.18	-16.36	348.35	-1,898.4	0	0
DELHI	3,594.68	2,639.57	-279.36	-476.66	-144.97	-1,317.83	0	0
UTTAR PRADESH	6,077.51	3,411.51	557.64	69.24	39.23	-335.96	0	0
UTTARAKHAND	826.96	375.45	120.44	61.74	308.66	-125.74	0	0
HIMACHAL PRADESH	1,450.9	364.34	249.33	59.29	-2.24	-813.11	0	0
JAMMU & KASHMIR	1,704.2	756.2	143.63	143.63	592.98	0	0	0
CHANDIGARH	282.13	112.75	0	0	0	-85.57	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	508.67	1,485	507.2	1,411	1,680.12	1,168.97
Chamera-I	748.75	760	-	-	-	-	-	0
Gandhisagar	295.78	295.78	-	-	-	-	-	0
Jawahar Sagar	295.78	298.7	-	-	-	-	-	0
Koteshwar	598.5	612.5	-	-	-	-	-	0
Pong	384.05	426.72	422.42	1,006	417.5	781	120.88	314.66
RPS	343.81	352.8	-	-	-	-	-	0
RSD	487.91	527.91	525.43	5	514.68	4	107.98	184.82
Rihand	252.98	268.22	-	-	-	-	-	0
Tehri	740.04	829.79	826.9	1,148	824.75	1,103	63.17	155
TOTAL	-	-	-	3,644	-	3,299	1,972.15	1,823.45

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	3	31
DELHI	4	53
HARYANA	2	14
HIMACHAL PRADESH	1	15
JAMMU & KASHMIR	1	23
PUNJAB	1	13
RAJASTHAN	3	25
UTTAR PRADESH	2	25
UTTARAKHAND	5	41

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 :

- | |
|--|
| <ol style="list-style-type: none">1. First time charging of 500 MVA ICT-2 AT 400/220 KV Dhuri, Punjab sub-station on No Load at 13.08 hrs.2. First time charging of 220 KV Bay (213)-Future Line Bay at 400/200 KV Roorkee sub-station PG at 12.33 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