पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड
(भारत सरकार का उद्यम)
उत्तर क्षेत्रीय भार प्रेषण केंद्र
CIN: U40105DL2009GOI188682

Power Supply Position in Northern Region for 30.07.2018

Date of Reporting : 31.07.2018

I. Regional Availability/Demand:

Evening Peak (20:00 Hrs) MW				Off Peak (03:00 Hrs) MW				Day Energy (Net MU)	
Demand Met	Shortage	Requirement	Freq* (Hz)	Demand Met	Shortage	Requirement	Freq* (Hz)	Demand Met	Shortage
50430	540	50970	49.80	43258	208	43467	50.05	1104.65	9.85

* Half hourly (two 15 minutes block--one block each before and after the designated time) average frequency

II. A. State's Load Details (At States periphery) in MUs:

UI [OD:(+ve), UD: (-ve)]

State	State's Control Area Generation (Net MU)							Drawal Schedule (Net MU)	Actual Drawal (Net MU)	UI (Net MU)	Consumption (Net MU)	Shortages * (MU)
	Thermal	Hydro	Gas/Naptha/ Diesal	Solar	Wind	Other (Biomass/ Small hydro/ Co-Generation etc.)	Total					
Punjab	59.48	17.37	0.00	5.80	0.00	2.26	84.90	138.14	138.48	0.34	223.37	0.00
Haryana	22.68	0.58	0.00	0.14	0.00	0.58	23.98	147.79	148.40	0.61	172.38	0.32
Rajasthan	87.66	0.00	3.13	8.33	28.52	0.30	127.94	76.53	78.72	2.19	206.66	0.00
Delhi	5.65	0.00	4.91	0.00	0.00	0.00	10.55	98.96	98.08	-0.88	108.63	0.53
UP	104.70	21.62	0.00	1.33	0.00	2.40	130.05	157.70	157.07	-0.63	287.12	0.00
Uttarakhand	0.00	14.18	0.00	0.62	0.00	0.00	14.80	24.54	24.33	-0.21	39.13	0.00
HP	0.00	18.35	0.00	0.00	0.00	5.89	24.24	-3.81	-0.57	3.24	23.67	0.00
J & K	0.00	25.56	0.00	0.00	0.00	0.00	25.56	19.27	12.30	-6.97	37.86	9.00
Chandigarh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.17	5.82	-0.35	5.82	0.00
Total	280.17	97.66	8.03	16.22	28.52	11.42	442.02	665.29	662.63	-2.66	1104.65	9.85

* Shortage furnished by the respective constituent.$ Others include UP Co-generation and JK Diesel

II. B. State's Demand Met in MWs:

UI/OA/PX [OD/Import: (+ve), UD/Export: (-ve)

State	Evening Peak (20:00 Hrs) MW				Off Peak (03:00 Hrs) MW				Maximum Demand Met (MW) and Time(Hrs)		Shortage (MW)
	Demand Met	Shortage	UI	STOA/PX transaction	Demand Met	Shortage	UI	STOA/PX transaction			
Punjab	9459	0	129	1693	8168	0	51	1897	10109	13	0
Haryana	8251	0	-97	2256	6963	0	138	2488	8702	22	0
Rajasthan	8377	0	-99	64	8160	0	391	152	9623	24	0
Delhi	4828	0	-5	829	4159	0	12	699	5597	24	3
UP	14627	150	-69	1526	12195	0	-154	2120	15046	22	170
Uttarakhand	1893	0	-5	377	1387	0	-9	127	1893	20	0
HP	1173	0	260	-1961	848	0	118	-1891	1248	21	0
J&K	1560	390	-331	-646	1181	208	-372	-1071	1982	21	496
Chandigarh	262	0	-20	-65	197	0	-30	-75	291	15	0
Total	50430	540	-238	4072	43258	208	146	4445	52227	21	716

* STOA figures are at sellers boundary & PX figures are at regional boundary. # figures may not be at simultaneous hour.

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III. Regional Entities :

UI [OG:(+ve), UG: (-ve)]

	Station/ Constituent	Inst. Capacity (Effective) MW	Declared Capacity(MW)	Peak MW (Gross)	Off Peak MW (Gross)	Energy (Net MU)	Average Sentout(MW)	Schedule Net MU	UI Net MU
A. NTPC	Singrauli STPS (5*200+2*500)	2000	1230	1355	1288	28.64	1193	27.50	1.14
	Rihand I STPS (2*500)	1000	923	1001	685	20.90	871	20.27	0.63
	Rihand II STPS (2*500)	1000	943	1018	916	21.67	903	20.95	0.72
	Rihand III STPS (2*500)	1000	943	1012	745	19.93	831	19.32	0.61
	Dadri I STPS (4*210)	840	703	765	570	11.91	496	12.18	-0.27
	Dadri II STPS (2*490)	980	929	897	812	16.09	670	15.15	0.94
	Unchahar I TPS (2*210)	420	382	370	245	6.49	270	6.81	-0.32
	Unchahar II TPS (2*210)	420	191	198	125	3.31	138	3.37	-0.06
	Unchahar III TPS (1*210)	210	191	190	124	3.26	136	3.23	0.03
	Unchahar IV TPS(1*500)	500	0	0	0	0.00	0	0.00	0.00
	ISTPP (Jhajjhar) (3*500)	1500	1421	924	603	15.32	638	15.09	0.23
	Dadri GPS (4*130.19+2*154.51)	830	0	0	0	0.00	0	0.00	0.00
	Anta GPS (3*88.71+1*153.2)	419	0	0	0	0.00	0	0.00	0.00
	Auraiya GPS (4*111.19+2*109.30)	663	0	144	97	2.35	98	2.43	-0.08
	Dadri Solar(5)	5	1	0	0	0.02	1	0.02	-0.01
	Unchahar Solar(10)	10	1	0	0	0.01	0	0.02	-0.01
	Singrauli Solar(15)	15	1	0	0	0.03	1	0.02	0.01
	KHEP(4*200)	800	872	870	866	20.89	870	20.93	-0.04
	Sub Total (A)	**12612**	**8729**	**8744**	**7076**	**171**	**7117**	**167**	**3.53**
B. NPC	NAPS (2*220)	440	383	414	423	9.19	383	9.19	0.00
	RAPS- B (2*220)	440	357	398	401	8.56	357	8.57	-0.01
	RAPS- C (2*220)	440	410	450	451	9.69	404	9.78	-0.09
	Sub Total (B)	**1320**	**1150**	**1262**	**1275**	**27.44**	**1143**	**27.54**	**-0.10**
C. NHPC	Chamera I HPS (3*180)	540	534	540	540	12.94	539	12.80	0.14
	Chamera II HPS (3*100)	300	297	301	305	7.25	302	7.12	0.13
	Chamera III HPS (3*77)	231	229	240	238	5.66	236	5.48	0.18
	Bairasuil HPS(3*60)	180	103	181	144	2.69	112	2.46	0.23
	Salal-HPS (6*115)	690	687	705	702	16.87	703	16.48	0.39
	Tanakpur-HPS (3*31.4)	94	0	0	0	0.00	0	0.00	0.00
	Uri-I HPS (4*120)	480	475	481	483	11.52	480	11.40	0.12
	Uri-II HPS (4*60)	240	240	244	243	5.79	241	5.76	0.03
	Dhauliganga-HPS (4*70)	280	278	293	139	4.69	195	4.53	0.16
	Dulhasti-HPS (3*130)	390	261	263	278	6.30	263	6.17	0.13
	Sewa-II HPS (3*40)	120	120	130	123	1.26	52	1.20	0.06
	Parbati 3 (4*130)	520	207	501	150	4.98	208	4.98	0.00
	Kishanganga(3*110)	330	215	248	213	5.28	220	5.17	0.11
	Sub Total (C)	**4395**	**3646**	**4127**	**3558**	**85**	**3552**	**84**	**1.69**
D.SJVNL	NJPC (6*250)	1500	1605	1632	1626	38.72	1613	38.52	0.19
	Rampur HEP (6*68.67)	412	442	447	448	10.88	453	10.61	0.27
	Sub Total (D)	**1912**	**2047**	**2079**	**2074**	**49.60**	**2067**	**49.13**	**0.47**
E. THDC	Tehri HPS (4*250)	1000	884	924	915	19.21	800	19.19	0.02
	Koteshwar HPS (4*100)	400	299	400	304	7.22	301	7.17	0.05
	Sub Total (E)	**1400**	**1183**	**1324**	**1219**	**26.43**	**1101**	**26.36**	**0.07**
F. BBMB	Bhakra HPS (2*108+3*126+5*157)	1379	668	1098	594	16.14	672	16.03	0.11
	Dehar HPS (6*165)	990	619	825	495	14.87	620	14.85	0.02
	Pong HPS (6*66)	396	160	236	116	3.90	162	3.84	0.06
	Sub Total (F)	**2765**	**1446**	**2159**	**1205**	**34.90**	**1454**	**34.72**	**0.18**
G. IPP(s)/JV(s)	Allain DuhanganHPS(IPP) (2*96)	192	0	214	157	3.85	160	4.77	-0.92
	Karcham Wangtoo HPS(IPP) (4*250)	1000	0	1100	1100	26.44	1102	26.08	0.36
	Malana Stg-II HPS (2*50)	100	0	113	113	2.63	110	2.34	0.29
	Shree Cement TPS (2*150)	300	0	128	71	3.45	144	2.18	1.27
	Budhil HPS(IPP) (2*35)	70	0	75	75	1.77	74	1.65	0.12
	Sainj HPS (IPP) (2*50)	100	0					2.61	
	Sub Total (G)	**1762**	**0**	**1629**	**1516**	**38.14**	**1589**	**37.02**	**1.12**
H. Total Regional Entities (A-G)		**26167**	**18202**	**21324**	**17923**	**432.56**	**18023**	**425.61**	**6.95**

I. State Entities	Station	Effective Installed Capacity (MW)	Peak MW	Off Peak MW	Energy(MU)	Average(Sentout MW)
Punjab	Guru Gobind Singh TPS (Ropar) (6*210)	1260	210	210	4.54	189
	Guru Nanak Dev TPS(Bhatinda) (2*110+2*120)	460	0	0	0.00	0
	Guru Hargobind Singh TPS(L.mbt) (2*210+2*250)	920	0	0	0.13	5
	Goindwal(GVK) (2*270)	540	246	246	5.41	226
	Rajpura (2*700)	1400	660	660	17.20	717
	Talwandi Saboo (3*660)	1980	1600	924	32.19	1341
	Thermal (Total)	**6560**	**2716**	**2040**	59.48	**2478**
	Total Hydro	1000	683	683	17.37	724
	Wind Power	0	0	0	0.00	0
	Biomass	303	0	0	2.26	94
	Solar	859	0	0	5.80	242
	Renewable(Total)	**1162**	**0**	**0**	**8.06**	**336**
	Total Punjab	**8722**	**3399**	**2723**	**84.90**	**3537**
Haryana	Panipat TPS (2*210+2*250)	920	335	0	3.52	147
	DCRTPP (Yamuna nagar) (2*300)	600	533	240	8.76	365
	Faridabad GPS (NTPC)(2*137.75+1*156)	432	0	0	0.00	0
	RGTPP (khedar) (IPP) (2*600)	1200	0	0	0.00	0
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP) (2*660)	1320	579	374	10.40	433
	Thermal (Total)	**4497**	**1447**	**614**	**22.68**	**945**
	Total Hydro	62	29	0	0.58	24
	Wind Power	0	0	0	0.00	0
	Biomass	106	0	0	0.58	24
	Solar	50	0	0	0.14	6
	Renewable(Total)	**156**	**0**	**0**	**0.72**	**30**
	Total Haryana	**4715**	**1476**	**614**	**23.98**	**999**
Rajasthan	kota TPS (2*110+2*195+3*210)	1240	549	282	9.57	399
	suratgarh TPS (6*250)	1500	197	181	4.50	188
	Chabra TPS (4*250)	1000	907	827	19.75	823
	Chabra TPS (1*660)	660	0	0	0.00	0
	Dholpur GPS (3*110)	330	0	0	0.00	0
	Ramgarh GPS(1*37.5 + 1*35.5 +2*37.5 +1*110 +1*50)	271	129	129	3.13	130
	RAPS A (NPC) (1*100+1*200)	300	0	0	0.00	0
	Barsingsar (NLC) (2*125)	250	0	0	0.00	0
	Giral LTPS (2*125)	250	0	0	0.00	0
	Rajwest LTPS (IPP) (8*135)	1080	860	489	18.85	785
	VS LIGNITE LTPS (IPP) (1*135)	135	0	0	0.00	0
	Kalisindh Thermal(2*600)	1200	495	406	10.98	457
	Kawai(Adani) (2*660)	1320	1143	856	24.01	1001
	Thermal (Total)	**9536**	**4280**	**3170**	**90.79**	**3783**
	Total Hydro	550	0	0	0.00	0
	Wind power	4292	924	1865	28.52	1188
	Biomass	102	12	12	0.30	12
	Solar	1995	28	0	8.33	347
	Renewable/Others (Total)	6389	964	1877	37.15	1548
	Total Rajasthan	**16475**	**5244**	**5047**	**127.94**	**5331**
UP	Anpara TPS (3*210+2*500)	1630	1299	833	25.00	1042
	Obra TPS (2*50+2*94+5*200)	1194	502	309	8.58	358
	Paricha TPS (2*110+2*220+2*250)	1160	811	482	11.69	487
	Panki TPS (2*105)	210	0	0	0.00	0
	Harduaganj TPS (1*60+1*105+2*250)	665	447	263	7.12	297
	Tanda TPS (NTPC) (4*110)	440	381	168	5.64	235
	Roza TPS (IPP) (4*300)	1200	0	0	0.00	0
	Anpara-C (IPP) (2*600)	1200	1101	629	18.96	790
	Bajaj Energy Pvt.Ltd(IPP) TPS (10*45)	450	0	0	0.00	0
	Anpara-D(2*500)	1000	943	943	17.92	747
	Lalitpur TPS(3*660)	1980	596	356	8.97	374
	Bara(3*660)	1980	0	0	0.81	34
	Thermal (Total)	**13109**	**6080**	**3983**	**104.70**	**4363**
	Vishnuparyag HPS (IPP)(4*110)	440	435	435	10.48	437
	Alaknanada(4*82.5)	330	350	346	8.31	346
	Other Hydro	527	181	94	2.83	118
	Cogeneration	1360	100	100	2.40	100
	Wind Power	0	0	0	0.00	0
	Biomass	26	0	0	0.00	0
	Solar	472	0	0	1.33	55
	Renewable(Total)	**498**	**0**	**0**	**1.33**	**55**
	Total UP	**16264**	**7146**	**4958**	**130.05**	**5419**
Uttarakhand	Other Hydro	1250	747	368	14.18	591
	Total Gas	450	0	0	0.00	0
	Wind Power	0	0	0	0.00	0
	Biomass	127	0	0	0.00	0
	Solar	100	0	0	0.62	26
	Small Hydro (< 25 MW)	180	0	0	0.00	0
	Renewable(Total)	407	0	0	0.62	26
	Total Uttarakhand	**2107**	**747**	**368**	**14.80**	**617**
Delhi	Rajghat TPS (2*67.5)	135	0	0	0.00	0
	Delhi Gas Turbine (6x30 + 3x34)	282	80	33	1.24	52
	Pragati Gas Turbine (2x104+ 1x122)	330	146	151	3.67	153
	Rithala GPS (3*36)	95	0	0	0.00	0
	Bawana GPS (4*216+2*253)	1370	-5	-5	0.00	0
	Badarpur TPS (NTPC) (3*95+2*210)	705	305	303	5.65	235
	Thermal (Total)	**2917**	**526**	**482**	**10.55**	**440**
	Wind Power	0	0	0	0.00	0
	Biomass	16	30	31	0.00	0
	Solar	2	0	0	0.00	0
	Renewable(Total)	**18**	**30**	**31**	**0.00**	**0**
	Total Delhi	**2935**	**556**	**513**	**10.55**	**440**

HP	Baspa HPS (IPP) (3*100)	300	330	330	7.92	330
	Malana HPS (IPP) (2*43)	86	102	106	2.50	104
	Other Hydro (>25MW)	372	337	338	7.93	331
	Wind Power	0	0	0	0.00	0
	Biomass	0	0	0	0.00	0
	Solar	0	0	0	0.00	0
	Small Hydro (< 25 MW)	486	373	342	5.89	245
	Renewable(Total)	**486**	**373**	**342**	**5.89**	**245**
	Total HP	**1244**	**1142**	**1115**	**24.24**	**1010**
J & K	Baglihar HPS (IPP) (3*150+3*150)	900	880	882	21.14	881
	Other Hydro/IPP(including 98 MW Small Hydro)	308	190	190	4.42	184
	Gas/Diesel/Others	0	0	0	0.00	0
	Wind Power	0	0	0	0.00	0
	Biomass	0	0	0	0.00	0
	Solar	0	0	0	0.00	0
	Small Hydro (< 25 MW)Included in Other Hydro Abov	98	0	0	0.00	0
	Renewable(Total)	**98**	**0**	**0**	**0.00**	**0**
	Total J & K	**1208**	**1070**	**1072**	**25.56**	**1065**
Total State Control Area Generation		**53670**	**20780**	**16410**	**442.02**	**18418**
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			**10945**	**9959.82**	**258.94**	**10789**
Total Regional Availability(Gross)		**79837**	**53048**	**44293**	**1133.52**	**47230**

IV. Total Hydro Generation:

Regional Entities Hydro	**12564**	**11985**	**10292**	**251.74**	**10415**
State Control Area Hydro	**7468**	**4637**	**4113**	**97.66**	**4340**
Total Regional Hydro	**20032**	**16622**	**14405**	**349.40**	**14756**

V. Total Renewable Generation:

Regional Entities Renewable	**30**	**0**	**0**	**0.06**	**2**
State Control Area Renewable	**9214**	**1367**	**2250**	**53.76**	**2240**
Total Regional Renewable	**9244**	**1367**	**2250**	**53.81**	**2242**

VI(A). Inter Regional Exchange [Import (+ve)/Export (-ve)] [Linkwise]

Element	Peak(20:00 Hrs)	Off Peak(03:00 Hrs	Maximum Interchange (MW)		Energy (MU)		Net Energy
	MW	MW	Import	Export	Import	Export	MU
Vindhychal(HVDC B/B)	-250	-250	0	250	0.00	6.04	-6.04
765 KV Gwalior-Agra (D/C)	2515	2082	2806	0	52.09	0.00	52.09
400 KV Zerda-Kankroli	-163	-22	89	252	0.00	1.33	-1.33
400 KV Zerda-Bhinmal	-186	-20	52	248	0.00	1.84	-1.84
220 KV Auraiya-Malanpur	-21	-12	0	46	0.00	0.21	-0.21
220 KV Badod-Kota/Morak	82	104	187	0	2.27	0.00	2.27
Mundra-Mohindergarh(HVDC Bipole)	800	700	1207	0	20.04	0.00	20.04
400 KV RAPPC-Sujalpur	116	274	401	0	6.06	0.00	6.06
400 KV Vindhyachal-Rihand	-965	-649	0	965	0.00	20.08	-20.08
765 kV Phagi-Gwalior (D/C)	1346	1243	1632	0	33.22	0.00	33.22
+/- 800 kV HVDC Champa-Kurushetra	2500	1000	1900	0	22.59	0	22.59
765KV Orai-Jabalpur	1242	1071	1458	0	25.77	0	25.77
765KV Orai-Satna	1796	1585	1857	0	39.77	0	39.77
765KV Orai-Gwalior	-442	-385	0	453	0.00	10	-9.73
Sub Total WR	**8371**	**6722**			**201.80**	**39.23**	**162.56**
400 kV Sasaram - Varanasi	79	66	101	0	2.22	0.00	2.22
400 kV Sasaram - Allahabad	62	76	109	0	1.97	0.00	1.97
400 KV MZP- GKP (D/C)	591	731	841	0	16.55	0.00	16.55
400 KV Patna-Balia(D/C) X 2	768	903	1046	0	21.34	0.00	21.34
400 KV B'Sharif-Balia (D/C)	251	356	428	0	7.74	0.00	7.74
765 KV Gaya-Balia	359	326	390	0	7.49	0.00	7.49
765 KV Gaya-Varanasi (D/C)	-416	-485	632	0	11.65	0.00	11.65
220 KV Pusauli-Sahupuri	120	113	124	0	2.74	0.00	2.74
132 KV K'nasa-Sahupuri	0	0	0	0	0.96	0.00	0.96
132 KV Son Ngr-Rihand	28	26	0	28	0.00	0.58	-0.58
132 KV Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
765 KV Sasaram - Fatehpur	-89	63	176	187	0.00	0.93	-0.93
400 KV Motihari -GKP (D/C)	-262	-168	0	280	0.00	4.11	-4.11
400 kV B'Sharif - Varanasi (D/C)	83	231	339	15	5.32	0.00	5.32
+/- 800 KV HVDC Alipurduar-Agra	400	400	400	0	9.99	0.00	9.99
Sub Total ER	**1974**	**2638**			**87.98**	**5.62**	**82.36**
+/- 800 KV HVDC BiswanathCharialli-Agra	600	600	600	0.00	14.02	0.00	14.02
Sub Total NER	**600**	**600**			**14.02**	**0.00**	**14.02**
Total IR Exch	**10945**	**9960**			**303.79**	**44.85**	**258.94**

VI(B). Inter Regional Schedule & Actual Exchanges [Import (+ve)/Export (-ve)] [Corridor wise]

ISGS/LT Schedule (MU)			Bilateral Schedule (MU)		Power Exchange Shdl (MU)		Wheeling (MU)	
ER	Bhutan	Total	Through ER	Through WR	Through ER	Through WR	Through ER	Through WR
51.06	3.71	54.77	32.02	55.69	-2.29	2.28	0.00	0.00

Total IR Schedule (MU)			Total IR Actual (MU)			Net IR UI (MU)		
Through ER	Through WR Inclds Mndra	Total	Through ER(including NER)	Through WR	Total	Through ER (including NER)	Through WR	Total
80.79	194.92	275.71	96.38	162.56	258.94	15.59	-32.36	-16.77

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

Element	Peak(20:00 Hrs)	Off Peak(03:00 Hrs	Maximum Interchange (MW)		Energy (MU)		Net Energy
	MW	MW	Import	Export	Import	Export	MU
132 KV Tanakpur - Mahendarnagar	-14	0	0	16	0	0	-0.20

VII. Frequency Profile <---------- % of Time Frequency ---------->

<49.2	<49.7	<49.8	<49.9	<50.0	49.9-50.05	50.05-50.10	50.10-50.20	>50.20	>50.50
0.00	0.00	2.80	12.20	63.60	81.30	6.20	0.70	0.00	0.00

<---------- Frequency (Hz) ---------->				Average	Frequency	Std. Dev.	Frequency in 15 Min Block		Freq Dev Index (% of Time)
Maximum		Minimum		Frequency	Variation		MAX	MIN	
Freq	Time	Freq	Time	Hz	Index		(Hz)	(Hz)	
50.14	13.02	49.75	22.16	49.97	0.050	0.065	0.00	0.00	18.70

VIII(A). Voltage profile 400 kV

Station	Voltage Level (kV)	Maximum		Minimum		Voltage (in % of Time)				Voltage Deviation Index
		Voltage(KV)	Time	Voltage (KV)	Time	<380 kV	<390 kV	>420 kV	>430 kV	
Rihand	400	404	4:01	400	0:04	0.0	0.0	0.0	0.0	0.0
Gorakhpur	400	421	16:01	394	19:19	0.0	0.0	0.0	0.0	0.0
Bareilly(PG)400kV	400	412	16:02	382	5:43	0.0	0.0	0.0	0.0	0.0
Kanpur	400	417	16:03	402	0:38	0.0	0.0	0.0	0.0	0.0
Dadri	400	411	7:01	398	22:29	0.0	0.0	0.0	0.0	0.0
Ballabhgarh	400	411	7:04	396	22:14	0.0	0.0	0.0	0.0	0.0
Bawana	400	409	16:02	397	0:17	0.0	0.0	0.0	0.0	0.0
Bassi	400	417	16:02	399	22:17	0.0	0.0	0.0	0.0	0.0
Hissar	400	407	16:04	394	0:07	0.0	0.0	0.0	0.0	0.0
Moga	400	403	9:41	393	0:17	0.0	0.0	0.0	0.0	0.0
Abdullapur	400	408	8:01	398	0:12	0.0	0.0	0.0	0.0	0.0
Nalagarh	400	408	8:06	402	0:14	0.0	0.0	0.0	0.0	0.0
Kishenpur	400	407	13:06	400	21:16	0.0	0.0	0.0	0.0	0.0
Wagoora	400	403	4:44	388	20:28	0.0	0.0	0.0	0.0	0.0
Amritsar	400	405	8:01	396	0:03	0.0	0.0	0.0	0.0	0.0
Kashipur	400	402	0:00	402	0:00	0.0	0.0	0.0	0.0	0.0
Hamirpur	400	405	8:30	398	0:03	0.0	0.0	0.0	0.0	0.0
Rishikesh	400	404	4:06	391	23:15	0.0	0.0	0.0	0.0	0.0

VIII(B). Voltage profile 765 kV

Station	Voltage Level (kV)	Maximum		Minimum		Voltage (in % of Time)				Voltage Deviation Index
		Voltage(KV)	Time	Voltage (KV)	Time	<728 kV	<742 kV	>800 kV	>820 kV	
Fatehpur	765	778	16:04	751	0:38	0.0	0.0	0.0	0.0	0.0
Balia	765	790	16:02	756	19:19	0.0	0.0	0.0	0.0	0.0
Moga	765	784	10:01	756	0:17	0.0	0.0	0.0	0.0	0.0
Agra	765	791	16:02	760	22:32	0.0	0.0	0.0	0.0	0.0
Bhiwani	765	792	16:00	767	0:11	0.0	0.0	0.0	0.0	0.0
Unnao	765	771	16:04	741	22:30	0.0	0.7	0.0	0.0	0.0
Lucknow	765	794	16:02	758	23:07	0.0	0.0	0.0	0.0	0.0
Meerut	765	798	16:02	767	23:38	0.0	0.0	0.0	0.0	0.0
Jhatikara	765	792	16:02	759	22:21	0.0	0.0	0.0	0.0	0.0
Bareilly 765 kV	765	789	16:02	754	23:08	0.0	0.0	0.0	0.0	0.0
Anta	765	795	4:12	775	22:20	0.0	0.0	0.0	0.0	0.0
Phagi	765	795	15:57	770	21:47	0.0	0.0	0.0	0.0	0.0

Note : "0" in Max / Min Col -> Telemetry Outage

IX. Reservior Parameters:

Name of Reservior	Parameters		Present Parameters		Last Year		Last day	
	FRL (m)	MDDL (m)	Level (m)	Energy (MU)	Level (m)	Energy (MU)	Inflow (m^3/s)	Usage (m^3/s)
Bhakra	513.59	445.62	477.13	394.40	495.11	903.28	1312.17	568.77
Pong	426.72	384.05	399.46	209.93	409.76	484.26	583.95	278.78
Tehri	829.79	740.04	794.30	518.27	795.25	532.99	600.00	488.00
Koteshwar	612.50	598.50	610.51	4.69	609.70	4.44	488.00	477.17
Chamera-I	760.00	748.75	758.16	978.75	755.56	2344.05	345.21	350.49
Rihand	268.22	252.98	0.00	0.00	0.00	0.00	0.00	0.00
RPS	352.80	343.81	0.00	0.00	0.00	0.00	0.00	0.00
Jawahar Sagar	298.70	295.78	0.00	0.00	0.00	0.00	0.00	0.00
RSD	527.91	487.91	509.79	5.56	522.40	7.22	422.51	217.00

*** NA: Not Available**

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

State	Off- Peak Hours (03:00 Hrs)			Peak Hours (20:00 Hrs)			Day Energy (MU)		
	Bilateral (MW)	IEX (MW)	PXIL (MW)	Bilateral (MW)	IEX (MW)	PXIL (MW)	Bilateral (MU)	IEX / PXIL (MU)	Total (MU)
Punjab	1897	0	0	1894	-201	0	45.49	-0.80	44.69
Delhi	1087	-388	0	962	-133	0	24.66	-2.91	21.75
Haryana	2342	146	0	2255	1	0	47.97	-3.17	44.80
HP	-1642	-249	0	-1675	-287	0	-37.14	-5.77	-42.91
J&K	-1150	79	0	-1150	504	0	-27.61	10.35	-17.26
CHD	0	-75	0	0	-65	0	0.00	-1.15	-1.15
Rajasthan	-37	190	0	-37	101	0	-0.01	3.21	3.20
UP	2120	0	0	1526	0	0	43.36	-0.86	42.50
Uttarakhand	-152	279	0	-205	581	0	-3.92	9.41	5.49
Total	**4463**	**-18**	**0**	**3570**	**502**	**0**	**92.80**	**8.31**	**101.11**

X(B). Short-Term Open Access Details:

State	Bilateral (MW)		IEX (MW)		PXIL (MW)	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Punjab	1898	1886	0	-201	0	0
Delhi	1256	865	260	-635	0	0
Haryana	2386	1763	149	-973	0	0
HP	-1439	-1877	-206	-287	0	0
J&K	-1150	-1152	623	79	0	0
CHD	0	0	-10	-90	0	0
Rajasthan	31	-38	190	-654	0	0
UP	2144	1526	0	-271	0	0
Uttarakhand	-152	-205	581	279	0	0

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

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

WR	**0.00%**
ER	**0.00%**
Simultaneous	**0.00%**

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

WR	**0.00%**
ER	**0.00%**
Simultaneous	**0.00%**

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

Rihand - Dadri	**0.00%**

XII. Zero Crossing Violations

State	No. of violations(Maximum 8 in a day)	Maximum number of continuous blocks without sign change
Punjab	0	11
Haryana	1	14
Rajasthan	2	33
Delhi	5	26
UP	0	11
Uttarakhand	3	20
HP	4	46
J & K	3	23
Chandigarh	4	25

XIII.System Constraints:

XIV. Grid Disturbance / Any Other Significant Event:

XV. Weather Conditions For 30.07.2018 :

XVI. Synchronisation of new generating units :

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

0.00

XVIII. Tripping of lines in pooling stations :

XIX. 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.

Report for : 30.07.2018

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER