

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(भारत सरकार का उद्यम)

उत्तर क्षेत्रीय भार प्रेषण केंद्र

CIN: U40105DL2009GOI188682

Power Supply Position in Northern Region for 28.06.2018

Date of Reporting : 29.06.2018



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
46042	990	47031	49.95	43069	219	43287	50.07	1056.25	9.45

* 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:

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/Naphtha/ Diesel	Solar	Wind	Other (Biomass/ Small hydro/ Co-Generation etc.)	Total					
Punjab	63.86	10.40	0.00	4.16	0.00	2.66	81.08	113.22	111.49	-1.73	192.57	0.00
Haryana	22.39	0.76	0.00	0.05	0.00	0.71	23.92	122.72	121.84	-0.88	145.75	0.01
Rajasthan	87.78	0.06	3.49	7.46	13.09	4.34	116.21	53.44	54.14	0.70	170.35	0.00
Delhi	6.75	0.00	15.31	0.00	0.00	0.00	22.06	93.09	92.25	-0.84	114.31	0.07
UP	152.89	16.50	0.00	1.90	0.00	6.00	177.29	143.61	142.57	-1.04	319.86	0.00
Uttarakhand	0.00	20.32	6.65	0.78	0.00	0.00	27.75	17.13	15.72	-1.41	43.47	0.00
HP	0.00	16.66	0.00	0.00	0.00	3.46	20.12	2.04	4.87	2.83	24.99	0.00
J & K	0.00	25.40	0.00	0.00	0.00	0.00	25.40	18.45	14.03	-4.42	39.43	9.38
Chandigarh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.42	5.54	-0.88	5.54	0.00
Total	333.67	90.09	25.44	14.35	13.09	17.17	493.81	570.12	562.44	-7.68	1056.25	9.45

* Storage furnished by the respective constituent & others include UP Co-generation and JK Diesel

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

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	STOAPX transaction	Demand Met	Shortage	UI	STOAPX transaction			
Punjab	7544	0	-324	1925	8422	0	-102	1925	8863	1	0
Haryana	6097	0	-313	1683	5613	0	-373	1836	7226	13	0
Rajasthan	6749	0	214	-1425	6855	0	118	-249	7529	14	0
Delhi	4841	0	37	362	4412	0	0	575	5559	16	0
UP	15835	520	102	1747	14212	0	-218	2204	16470	1	0
Uttarakhand	2072	0	237	164	1535	0	-273	216	2072	20	0
HP	778	0	182	-1493	567	0	128	-1440	877	17	0
J&K	1879	470	-41	-455	1238	219	-379	-727	1946	11	486
Chandigarh	246	0	-37	0	214	0	-42	10	269	16	0
Total	46042	990	58	2508	43069	219	-1139	4349	48983	1	245

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

III. Regional Entities :

A. NTPC	Station/ Constituent	Inst. Capacity	Declared	Peak MW	Off Peak MW	Energy	Average	Schedule	UI
		(Effective) MW	Capacity(MW)	(Gross)	(Gross)	(Net MU)	Sentout(MW)	Net MU	Net MU
	Singrauli STPS (6*200+2*500)	2000	1200	1328	1162	24.24	1010	23.02	1.22
	Rihand I STPS (2*500)	1000	923	880	929	16.70	696	15.49	1.21
	Rihand II STPS (2*500)	1000	943	944	765	17.60	733	16.84	0.76
	Rihand III STPS (2*500)	1000	943	997	721	17.24	718	15.05	2.19
	Dadri I STPS (4*210)	840	769	665	461	12.33	514	12.53	-0.20
	Dadri II STPS (2*490)	980	439	498	0	8.99	375	9.62	-0.63
	Unchahar I TPS (2*210)	420	382	264	236	5.33	222	5.33	0.00
	Unchahar II TPS (2*210)	420	382	228	254	5.09	212	5.28	-0.19
	Unchahar III TPS (1*210)	210	191	140	118	2.72	113	2.73	-0.01
	Unchahar IV TPS(1*500)	500	0	0	0	0.00	0	0.00	0.00
	ISTPP (Jhajjar) (3*500)	1500	626	601	538	12.66	527	13.50	-0.84
	Dadri GPS (4*130.19+2*154.51)	830	0	130	119	2.66	111	2.81	-0.15
	Anta GPS (3*88.71+1*153.2)	419	0	0	0	0.00	0	0.00	0.00
	Auraya GPS (4*111.19+2*109.30)	663	0	0	0	0.00	0	0.00	0.00
	Dadri Solar(5)	5	1	0	0	0.02	1	0.02	0.00
	Unchahar Solar(10)	10	2	0	0	0.04	2	0.04	0.00
	Singrauli Solar(15)	15	2	0	0	0.06	2	0.04	0.02
	KHEP(4*200)	800	872	818	599	9.66	403	9.50	0.16
	Sub Total (A)	12612	7673	7493	5902	135	5639	132	3.53
B. NPC	NAPS (2*220)	440	350	417	401	8.81	367	8.40	0.41
	RAPS- B (2*220)	440	357	403	400	8.59	358	8.57	0.02
	RAPS- C (2*220)	440	408	452	450	9.72	405	9.78	-0.06
	Sub Total (B)	1320	1115	1272	1251	27.12	1130	26.75	0.37
C. NHPC	Chamera I HPS (3*180)	540	534	545	542	12.99	541	12.80	0.19
	Chamera II HPS (3*100)	300	151	0	298	3.54	147	3.63	-0.09
	Chamera III HPS (3*77)	231	114	0	228	2.72	113	2.74	-0.02
	Bairasul HPS(3*60)	180	38	0	181	0.96	40	0.91	0.05
	Salaj HPS(6*115)	690	686	614	690	15.85	660	16.46	-0.61
	Tanakpur-HPS (3*31.4)	94	72	76	73	1.89	79	1.73	0.16
	Uri-I HPS (4*120)	480	325	327	346	8.15	340	7.79	0.36
	Uri-II HPS (4*60)	240	181	162	203	4.50	187	4.34	0.16
	Dhauliganga-HPS (4*70)	280	263	285	138	5.37	224	5.22	0.15
	Dulhasti-HPS (3*130)	390	390	396	383	9.27	386	9.25	0.02
	Sewa-II HPS (3*40)	120	121	127	120	2.86	119	2.77	0.09
	Parbati 3 (4*130)	520	141	510	100	3.43	143	3.39	0.04
	Kishanganga(3*110)	330	262	332	221	6.26	261	6.21	0.05
	Sub Total (C)	4395	3277	3374	3523	78	3241	77	0.54
D.SJVNL	NJPC (6*250)	1500	1605	1631	1067	32.67	1361	32.49	0.18
	Rampur HEP (6*68.67)	412	442	444	207	9.14	381	8.98	0.16
	Sub Total (D)	1912	2047	2075	1274	41.82	1742	41.47	0.35
E. THDC	Tehri HPS (4*250)	1000	518	525	127	4.02	167	4.00	0.02
	Koteswar HPS (4*100)	400	91	100	103	2.21	92	2.18	0.03
	Sub Total (E)	1400	609	625	230	6.22	259	6.18	0.04
F. BBMB	Bhakra HPS (2*108+3*126+5*157)	1379	775	1094	629	18.73	780	18.60	0.13
	Dehar HPS (6*165)	990	622	660	645	14.87	620	14.92	-0.05
	Pong HPS (6*68)	396	66	141	47	1.63	68	1.59	0.04
	Sub Total (F)	2765	1463	1895	1321	35.23	1468	35.11	0.12
G. IPP(s)/JV(s)	Allain DuhanganHPS(IPP) (2*96)	192	0	185	130	4.71	196	3.06	1.65
	Karcharm Wangtoo HPS(IPP) (4*250)	1000	0	1000	630	18.38	766	18.29	0.09
	Malana Sta-II HPS (2*50)	100	0	90	0	1.76	73	1.57	0.19
	Shree Cement TPS (2*150)	300	0	143	69	2.54	106	2.74	-0.20
	Budhil HPS(IPP) (2*35)	70	0	72	75	0.18	7	1.63	-1.46
	Sani HPS (IPP) (2*50)	100	0	0	0	0.00	1.40	0.00	0.00
	Sub Total (G)	1762	0	1490	904	27.57	1149	27.29	0.28
H. Total Regional Entities (A-G)		26167	16184	18224	14406	351.06	14628	345.84	5.22

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	320	670	9.73	405
	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	534	792	12.61	525
	Goidwal(GVK) (2*270)	540	145	145	3.56	148
	Rajpura (2*700)	1400	660	660	15.78	657
	Talwandi Saboo (3*660)	1980	924	924	22.19	924
	Thermal (Total)	6560	2583	3191	63.86	2661
	Total Hydro	1000	379	476	10.40	433
	Wind Power	0	0	0	0.00	0
	Biomass	303	0	0	2.66	111
	Solar	859	0	0	4.16	173
	Renewable(Total)	1162	0	0	6.81	284
	Total Punjab	8722	2962	3667	81.08	3378
	Haryana	Panipat TPS (2*210+2*250)	920	0	0	0.36
DCRTPP (Yamuna nagar) (2*300)		600	471	472	11.27	469
Faridabad GPS (NTPC)(2*137.75+1*156)		432	0	0	0.00	0
RGTPP (kharda) (IPP) (2*600)		1200	0	0	0.00	0
Magnum Diesel (IPP)		25	0	0	0.00	0
Jhajjar(CLP) (2*660)		1320	410	758	10.77	449
Thermal (Total)		4497	881	1230	22.39	933
Total Hydro		62	26	22	0.76	32
Wind Power		0	0	0	0.00	0
Biomass		106	0	0	0.71	30
Solar		50	0	0	0.05	2
Renewable(Total)		156	0	0	0.77	32
Total Haryana		4715	907	1252	23.92	997
Rajasthan		kota TPS (2*110+2*195+3*210)	1240	532	578	13.06
	suratgarh TPS (6*250)	1500	382	342	8.04	335
	Chabra TPS (4*250)	1000	761	732	17.66	736
	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	109	141	3.49	145
	RAPS A (NFC) (1*100+1*200)	300	164	167	3.89	162
	Barsingsar (NLC) (2*125)	250	219	221	5.60	233
	Giral LTPS (2*125)	250	0	0	0.00	0
	Rajwest LTPS (IPP) (8*135)	1080	471	422	10.90	454
	VS LIGNITE LTPS (IPP) (1*135)	135	0	0	0.00	0
	Kalisindh Thermal(2*600)	1200	407	395	9.79	408
	Kawai(Adani) (2*660)	1320	985	851	22.73	947
	Thermal (Total)	9536	4030	3849	95.15	3964
	Total Hydro	550	0	0	0.06	2
	Wind power	4292	888	87	13.09	545
	Biomass	102	19	19	0.45	19
	Solar	1995	17	0	7.46	311
	Renewable/Others (Total)	6389	924	106	21.00	875
	Total Rajasthan	16475	4954	3955	116.21	4842
	UP	Anpara TPS (3*210+2*500)	1630	1323	826	25.30
Obra TPS (2*50+2*94+5*200)		1194	377	324	8.50	354
Paricha TPS (2*110+2*220+2*250)		1160	507	529	12.80	533
Panki TPS (2*105)		210	0	0	0.00	0
Harduaganj TPS (1*60+1*105+2*250)		665	421	314	7.20	300
Tanda TPS (NTPC) (4*110)		440	222	216	4.49	187
Roza TPS (IPP) (4*300)		1200	596	597	14.80	617
Anpara-C (IPP) (2*600)		1200	1096	611	16.80	700
Bajaj Energy Pvt.Ltd(IPP) TPS (10*45)		450	0	224	2.70	113
Anpara-D(2*500)		1000	946	943	16.60	692
Lalitpur TPS(3*660)		1980	1033	1030	24.60	1025
Bara(3*660)		1980	1069	716	19.10	796
Thermal (Total)		13109	7590	6330	152.89	6370
Vishnupurag HPS (IPP)(4*110)		440	435	435	10.20	425
Alakananda(4*82.5)		330	316	163	5.30	221
Other Hydro		527	47	29	1.00	42
Cogeneration		1360	250	250	6.00	250
Wind Power		0	0	0	0.00	0
Biomass		26	0	0	0.00	0
Solar	472	0	0	1.90	79	
Renewable(Total)	498	0	0	1.90	79	
Total UP	16264	8638	7207	177.29	7387	
Uttarakhand	Other Hydro	1250	943	698	20.32	847
	Total Gas	450	276	284	6.65	277
	Wind Power	0	0	0	0.00	0
	Biomass	127	0	0	0.00	0
	Solar	100	0	0	0.78	33
	Small Hydro (< 25 MW)	180	0	0	0.00	0
	Renewable(Total)	407	0	0	0.78	33
	Total Uttarakhand	2107	1219	982	27.75	1156
Delhi	Rajghat TPS (2*67.5)	135	0	0	0.00	0
	Delhi Gas Turbine (6x30 + 3x34)	282	134	72	2.44	102
	Pragati Gas Turbine (2x104+ 1x122)	330	259	260	6.45	269
	Rithala GPS (3*36)	95	0	0	0.00	0
	Bawana GPS (4*216+2*253)	1370	297	252	6.42	268
	Badarpur TPS (NTPC) (3*95+2*210)	705	322	290	6.75	281
	Thermal (Total)	2917	1012	874	22.06	919
	Wind Power	0	0	0	0.00	0
	Biomass	16	21	15	0.00	0
	Solar	2	0	0	0.00	0
Renewable(Total)	18	21	15	0.00	0	
Total Delhi	2935	1033	889	22.06	919	

HP	Baspa HPS (IPP) (3*100)	300	330	330	7.88	328	
	Malana HPS (IPP) (2*43)	86	87	35	1.53	64	
	Other Hydro (>25MW)	372	273	324	7.24	302	
	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	152	227	3.46	144	
	Renewable(Total)	486	152	227	3.46	144	
	Total HP	1244	842	916	20.12	838	
	J & K	Baglihar HPS (IPP) (3*150+3*150)	900	883	882	21.16	882
		Other Hydro/IPP(Including 98 MW Small Hydro)	308	175	178	4.24	177
Gas/Diesel/Others		190	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 Above		98	0	0	0.00	0	
Renewable(Total)		98	0	0	0.00	0	
Total J & K		1398	1058	1060	25.40	1058	
Total State Control Area Generation		53860	21613	19928	493.81	20575	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]		8841	9342.59	230.76	9615		
Total Regional Availability(Gross)	80027	48678	43676	1075.63	44818		

IV. Total Hydro Generation:

Regional Entities Hydro	12564	10061	7707	195.73	8148
State Control Area Hydro	7468	4322	4083	90.09	4208
Total Regional Hydro	20032	14384	11790	285.82	12356

V. Total Renewable Generation:

Regional Entities Renewable	30	0	0	0.12	5
State Control Area Renewable	9214	1097	348	34.72	1447
Total Regional Renewable	9244	1097	348	34.84	1452

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

Element	Peak(20:00 Hrs) MW	Diff Peak(03:00 Hrs) MW	Maximum Interchange (MW)		Energy (MU)		Net Energy MU
			Import	Export	Import	Export	
Vindhychal(HVDC B/B)	250	-250	100	250	0.23	5.39	-5.17
765 KV Gwalior-Agra (D/C)	1847	1805	2376	0	47.55	0.00	47.55
400 KV Zerda-Kankroli	-318	-291	0	374	0.00	6.69	-6.69
400 KV Zerda-Bhinmal	-284	-220	0	402	0.00	5.36	-5.36
220 KV Auraiya-Malanpur	43	39	10	0	1.15	0.00	1.15
220 KV Badod-Kota/Morak	-6	45	62	6	0.78	0.00	0.78
Mundra-Mohindergarh(HVDC Bipole)	1499	1702	2011	0	33.19	0.00	33.19
400 KV RAPPK-Sujalpur	42	378	378	0	5.77	0.00	5.77
400 KV Vindhychal-Rihand	-942	-700	0	950	0.00	17.29	-17.29
765 KV Phagt-Gwalior (D/C)	951	1346	1389	0	27.75	0.00	27.75
+/- 800 KV HVDC Champa-Kurushetra	1500	0	1500	0	17.43	0	17.43
765KV Orai-Jabalpur	599	975	1285	0	19.52	0	19.52
765KV Orai-Satna	1702	1551	1825	0	39.30	0	39.30
765KV Orai-Gwalior	-355	-337	0	396	0.00	8	-8.17
Sub Total WR	6528	6044			192.66	42.90	149.76
400 kV Sasaram - Varanasi	257	216	268	0	5.28	0.00	5.28
400 kV Sasaram - Allahabad	113	140	198	0	3.66	0.00	3.66
400 KV MZP- GKP (D/C)	400	266	776	0	12.64	0.00	12.64
400 KV Patna-Balia(D/C) X 2	373	431	837	0	14.07	0.00	14.07
400 KV B Sharif-Balia (D/C)	208	187	367	0	7.12	0.00	7.12
765 KV Gaya-Balia	261	301	372	0	6.96	0.00	6.96
765 KV Gaya-Varanasi (D/C)	149	320	598	0	9.39	0.00	9.39
220 KV Pusaui-Sahupuri	155	140	162	0	3.44	0.00	3.44
132 KV Knasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
132 KV Son Ngr-Rihand	-24	-17	0	24	0.00	0.23	-0.23
132 KV Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
765 KV Sasaram - Fatehpur	-193	-155	62	207	0.00	1.06	-1.06
400 KV Mothari -GKP (D/C)	60	82	165	0	0.04	0.00	0.04
400 kV B Sharif - Varanasi (D/C)	29	30	278	29	3.68	0.00	3.68
+/- 800 KV HVDC Alipurduar-Agra	139	846	846	0	5.50	0.00	5.50
Sub Total ER	1927	2787			71.79	1.28	70.50
+/- 800 KV HVDC Biswanath Chariali-Agra	386	512	680	0.00	10.50	0.00	10.50
Sub Total NER	386	512			10.50	0.00	10.50
Total IR Exch	8841	9343			274.94	44.18	230.76

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

ER	ISGS/LT Schedule (MU)		Bilateral Schedule (MU)		Power Exchange Shdl (MU)		Wheeling (MU)	
	Bhutan	Total	Through ER	Through WR	Through ER	Through WR	Through ER	Through WR
41.19	2.82	44.01	44.42	47.51	-7.58	1.00	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
78.03	167.64	245.67	81.00	149.76	230.76	2.97	-17.88	-14.91

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

Element	Peak(20:00 Hrs) MW	Diff Peak(03:00 Hrs) MW	Maximum Interchange (MW)		Energy (MU)		Net Energy MU
			Import	Export	Import	Export	
132 KV Tanakpur - Mahendarnagar	-25	-4	0	27	0	0	-0.35

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	0.20	7.50	47.70	77.10	14.60	1.50	0.00	0.00

<----- Frequency (Hz) ----->				Average Frequency	Frequency Variation	Std. Dev.	Frequency in 15 Min Block		Freq Dev Index (% of Time)
Maximum		Minimum					MAX	MIN	
Freq	Time	Freq	Time	Hz	Index		(Hz)	(Hz)	
50.17	13.03	49.76	19.24	50.00	0.033	0.057	50.09	49.86	22.90

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	405	2:43	399	19:15	0.0	0.0	0.0	0.0	0.0
Gorakhpur	400	418	13:21	394	19:22	0.0	0.0	0.0	0.0	0.0
Bareilly(PG)400kV	400	422	3:04	394	19:19	0.0	0.0	2.3	0.0	2.3
Kanpur	400	421	2:48	404	19:28	0.0	0.0	1.9	0.0	1.9
Dadri	400	420	2:47	400	15:35	0.0	0.0	0.0	0.0	0.0
Ballabgarh	400	423	2:52	398	12:29	0.0	0.0	2.8	0.0	2.8
Bawana	400	420	4:32	398	12:29	0.0	0.0	0.0	0.0	0.0
Bassi	400	422	3:02	402	11:54	0.0	0.0	2.3	0.0	2.3
Hissar	400	416	2:48	392	12:30	0.0	0.0	0.0	0.0	0.0
Moga	400	415	2:51	394	12:35	0.0	0.0	0.0	0.0	0.0
Abdullapur	400	419	2:49	398	11:55	0.0	0.0	0.0	0.0	0.0
Nalagarh	400	419	2:53	398	15:42	0.0	0.0	0.0	0.0	0.0
Kishenpur	400	412	2:37	402	11:25	0.0	0.0	0.0	0.0	0.0
Wagoora	400	407	2:17	390	11:26	0.0	0.0	0.0	0.0	0.0
Amritsar	400	414	2:41	398	12:08	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	411	1:47	406	0:04	0.0	0.0	0.0	0.0	0.0
Rishikesh	400	418	2:48	394	19:23	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	781	2:51	748	19:22	0.0	0.0	0.0	0.0	0.0
Balia	765	794	2:52	755	19:24	0.0	0.0	0.0	0.0	0.0
Moga	765	808	2:49	750	12:35	0.0	0.0	7.0	0.0	7.0
Agra	765	798	3:01	762	19:23	0.0	0.0	0.0	0.0	0.0
Bhiwani	765	805	2:43	763	11:55	0.0	0.0	11.1	0.0	11.1
Unnao	765	782	6:02	744	19:22	0.0	0.0	0.0	0.0	0.0
Lucknow	765	799	3:00	757	19:25	0.0	0.0	0.0	0.0	0.0
Meerut	765	781	0:00	781	0:00	0.0	0.0	0.0	0.0	0.0
Jhatikara	765	800	2:47	761	19:25	0.0	0.0	0.0	0.0	0.0
Bareilly 765 kV	765	804	3:01	759	19:23	0.0	0.0	1.9	0.0	1.9
Anta	765	796	2:46	768	11:54	0.0	0.0	0.0	0.0	0.0
Phagi	765	803	2:41	767	11:49	0.0	0.0	9.5	0.0	9.5

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

IX. Reservoir Parameters:

Name of Reservoir	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	454.40	74.65	477.01	394.40	712.51	799.19
Pong	426.72	384.05	390.18	55.55	394.03	111.75	401.45	142.29
Tehri	829.79	740.04	743.60	17.04	745.85	28.25	237.18	145.00
Koteswar	612.50	598.50	610.76	4.95	611.05	5.00	145.00	146.00
Chamera-I	760.00	748.75	758.08	0.00	0.00	0.00	1115.93	351.92
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	502.10	3.04	513.37	9.61	144.53	225.37

* 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	1925	0	0	1925	0	0	46.08	0.00	46.08
Delhi	1175	-600	0	1086	-724	0	29.25	-13.37	15.88
Haryana	1801	34	0	1667	16	0	33.95	-1.35	32.60
HP	-1492	52	0	-1396	-97	0	-31.18	1.33	-29.85
J&K	-1092	365	0	-1092	638	0	-26.22	14.85	-11.37
CHD	0	10	0	0	0	0	0.00	0.67	0.67
Rajasthan	-52	-197	0	-52	-1373	0	-1.25	-10.52	-11.77
UP	2204	0	0	1747	0	0	46.63	0.00	46.63
Uttarakhand	-143	359	0	-143	307	0	-3.44	7.04	3.60
Total	4325	24	0	3740	-1232	0	93.82	-1.35	92.47

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

State	Bilateral (MW)		IEX (MW)		PXIL (MW)	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Punjab	1925	1797	0	0	0	0
Delhi	1438	1075	-85	-1033	0	0
Haryana	1801	1182	43	-865	0	0
HP	-1163	-1498	286	-142	0	0
J&K	-1092	-1092	790	286	0	0
CHD	0	0	73	0	0	0
Rajasthan	-52	-52	51	-1714	0	0
UP	2225	1709	0	-8	0	0
Uttarakhand	-143	-143	379	87	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%
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XII. Zero Crossing Violations

State	No. of violations(Maximum 8 in a day)	Maximum number of continuous blocks without sign change
Punjab	2	20
Haryana	3	18
Rajasthan	1	15
Delhi	3	17
UP	3	33
Uttarakhand	3	19
HP	2	24
J & K	5	39
Chandigarh	3	30

XIII. System Constraints:

XIV. Grid Disturbance / Any Other Significant Event:

XV. Weather Conditions For 28.06.2018 :

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 : 28.06.2018

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER