

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(भारत सरकार का उद्यम)

उत्तर क्षेत्रीय भार प्रेषण केंद्र

CIN: U40105DL2009GOI188682

Power Supply Position in Northern Region for 30.06.2018

Date of Reporting : 01.07.2018



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
51848	1346	53194	49.81	47181	207	47388	50.01	1169.81	11.10

* 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	63.36	13.77	0.00	4.16	0.00	2.66	83.95	122.46	122.45	-0.01	206.40	0.00
Haryana	28.25	0.94	0.00	0.14	0.00	0.67	30.01	146.83	148.35	1.52	178.36	0.07
Rajasthan	87.64	0.33	3.46	6.00	4.25	3.46	105.13	51.99	55.12	3.13	160.25	1.82
Delhi	6.70	0.00	13.97	0.00	0.00	0.00	20.67	93.20	92.44	-0.76	113.10	0.02
UP	184.25	19.75	0.00	2.86	0.00	6.00	212.87	181.96	182.05	0.09	394.92	0.00
Uttarakhand	0.00	22.06	6.67	0.76	0.00	0.00	29.49	16.28	16.03	-0.25	45.53	0.00
HP	0.00	18.43	0.00	0.00	0.00	4.79	23.21	1.59	3.41	1.82	26.63	0.00
J & K	0.00	25.37	0.00	0.00	0.00	0.00	25.37	16.80	13.26	-3.54	38.63	9.20
Chandigarh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.36	6.00	-0.36	6.00	0.00
Total	370.21	100.65	24.10	13.92	4.25	17.58	530.70	637.47	639.11	1.64	1169.81	11.10

* Shortage 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	9126	0	-20	1627	6746	0	9	1627	9503	17	0
Haryana	7908	28	185	1669	7401	0	68	1912	8454	22	0
Rajasthan	6941	0	-98	-1538	6531	0	197	-866	7424	21	651
Delhi	4724	0	-104	598	4821	0	4	825	5621	24	0
UP	17729	820	16	1796	17444	0	-357	2218	18089	24	30
Uttarakhand	2022	0	103	-13	1850	0	-14	-99	2059	12	0
HP	1136	0	185	-1665	993	0	33	-1491	1368	11	0
J&K	1996	499	237	-583	1175	207	-56	-925	1996	20	499
Chandigarh	267	0	-15	-20	221	0	-35	10	293	23	0
Total	51848	1346	490	1871	47181	207	-152	3210	53093	22	1542

* 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	1199	1327	1325	29.45	1227	28.66	0.79
	Rihand I STPS (2*500)	1000	923	1004	962	21.14	881	20.90	0.24
	Rihand II STPS (2*500)	1000	943	1004	984	22.30	929	21.76	0.54
	Rihand III STPS (2*500)	1000	943	1011	839	21.68	903	21.15	0.53
	Dadri I STPS (4*210)	840	769	789	498	13.86	578	14.19	-0.33
	Dadri II STPS (2*490)	980	464	490	448	8.95	373	8.90	0.05
	Unchahar I TPS (2*210)	420	382	396	335	7.49	312	7.59	-0.10
	Unchahar II TPS (2*210)	420	382	404	315	6.88	287	7.09	-0.21
	Unchahar III TPS (1*210)	210	191	208	129	3.22	134	3.31	-0.09
	Unchahar IV TPS(1*500)	500	0	0	0	0.00	0	0.00	0.00
	ISTPP (Jhajjar) (3*500)	1500	695	735	547	13.87	578	14.15	-0.28
	Dadri GPS (4*130.19+2*154.51)	830	0	150	110	2.99	125	2.72	0.27
	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	0.00	0	0.02	-0.02
	Unchahar Solar(10)	10	2	0	0	0.00	0	0.05	-0.05
	Singrauli Solar(15)	15	3	0	0	0.06	2	0.05	0.01
	KHEP(4*200)	800	872	861	785	18.17	757	17.50	0.67
	Sub Total (A)	12612	7767	8379	7277	170	7086	168	2.02
B. NPC	NAPS (2*220)	440	367	420	415	9.08	378	8.81	0.27
	RAPS- B (2*220)	440	358	399	403	8.56	357	8.59	-0.03
	RAPS- C (2*220)	440	408	453	454	9.67	403	9.78	-0.11
	Sub Total (B)	1320	1133	1272	1272	27.31	1138	27.18	0.13
C. NHPC	Chamera I HPS (3*180)	540	534	547	550	13.12	546	12.82	0.30
	Chamera II HPS (3*100)	300	263	305	301	6.45	269	6.32	0.13
	Chamera III HPS (3*77)	231	38	82	46	1.47	61	0.91	0.56
	Bairasul HPS(3*60)	180	104	182	0	2.70	113	2.50	0.20
	Salaj-HPS (6*115)	690	630	679	695	15.60	650	15.13	0.47
	Tanakpur-HPS (3*31.4)	94	40	94	93	1.06	44	0.95	0.11
	Uri-I HPS (4*120)	480	348	392	327	8.85	369	8.36	0.49
	Uri-II HPS (4*60)	240	186	0	0	4.46	186	4.46	0.00
	Dhauliganga-HPS (4*70)	280	80	286	0	1.92	80	1.88	0.04
	Dulhasti-HPS (3*130)	390	260	270	266	6.24	260	6.24	0.00
	Sewa-II HPS (3*40)	120	130	130	131	3.13	130	3.12	0.01
	Parbati 3 (4*130)	520	125	508	0	2.95	123	3.01	-0.06
	Kishanganga(3*110)	330	228	296	220	5.70	238	5.46	0.24
	Sub Total (C)	4395	2966	3771	2629	74	3069	71	2.49
D.SJVNL	NJPC (6*250)	1500	1605	1637	1613	38.59	1608	38.52	0.07
	Rampur HEP (6*68.67)	412	442	443	446	10.78	449	10.61	0.17
	Sub Total (D)	1912	2047	2080	2059	49.37	2057	49.13	0.24
E. THDC	Tehri HPS (4*250)	1000	520	522	522	4.71	196	4.60	0.11
	Koteswar HPS (4*100)	400	111	298	201	2.76	115	2.67	0.09
	Sub Total (E)	1400	631	820	723	7.47	311	7.27	0.20
F. BBMB	Bhakra HPS (2*108+3*126+5*157)	1379	644	1095	544	15.64	652	15.46	0.18
	Dehar HPS (6*165)	990	620	825	580	14.89	620	14.88	0.01
	Pong HPS (6*68)	396	78	188	0	1.92	80	1.87	0.05
	Sub Total (F)	2765	1342	2108	1124	32.44	1352	32.21	0.23
G. IPP(s)/JV(s)	Allain DuhanganHPS(IPP) (2*96)	192	0	200	192	3.71	154	4.22	-0.51
	Karcharm Wangtoo HPS(IPP) (4*250)	1000	0	1100	1100	26.40	1100	24.13	2.27
	Malana Sta-II HPS (2*50)	100	0	103	103	2.24	93	2.08	0.16
	Shree Cement TPS (2*150)	300	0	79	68	2.05	85	1.96	0.09
	Budhil HPS(IPP) (2*35)	70	0	75	75	1.78	74	1.65	0.13
	Sani HPS (IPP) (2*50)	100	0	100	0	0.00	0	2.05	0.00
	Sub Total (G)	1762	0	1558	1538	36.18	1507	34.04	2.14
H. Total Regional Entities (A-G)		26167	15886	19987	16623	396.48	16520	389.03	7.45

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	160	3.75	156
	Guru Nanak Dev TPS(Bhatinda) (2*110+2*120)	460	0	0	-0.02	-1
	Guru Hargobind Singh TPS(L.mbt) (2*210+2*250)	920	461	369	9.06	378
	Goindwal(GVK) (2*270)	540	246	145	5.03	210
	Rajpura (2*700)	1400	1100	660	21.50	896
	Talwandi Saboo (3*660)	1980	924	924	24.04	1002
	Thermal (Total)	6560	2941	2258	63.36	2640
	Total Hydro	1000	676	381	13.77	574
	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	3617	2639	83.95	3498
	Haryana	Panipat TPS (2*210+2*250)	920	218	1	4.24
DCRTPP (Yamuna nagar) (2*300)		600	520	478	12.09	504
Faridabad GPS (NTPC)(2*137.75+1*156)		432	0	0	0.00	0
RGTPP (kherda) (IPP) (2*600)		1200	0	0	0.00	0
Magnum Diesel (IPP)		25	0	0	0.00	0
Jhajjar(CLP) (2*660)		1320	437	375	11.92	497
Thermal (Total)		4497	1175	854	28.25	1177
Total Hydro		62	28	25	0.94	39
Wind Power		0	0	0	0.00	0
Biomass		106	0	0	0.67	28
Solar		50	0	0	0.14	6
Renewable(Total)		156	0	0	0.82	34
Total Haryana		4715	1203	879	30.01	1251
Rajasthan		kota TPS (2*110+2*195+3*210)	1240	637	514	13.28
	suratgarh TPS (6*250)	1500	189	175	3.67	153
	Chabra TPS (4*250)	1000	899	811	18.86	786
	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	141	143	3.46	144
	RAPS A (NPC) (1*100+1*200)	300	162	164	3.07	128
	Barsingsar (NLC) (2*125)	250	109	109	2.48	103
	Giral LTPS (2*125)	250	0	0	0.00	0
	Rajwest LTPS (IPP) (8*135)	1080	780	773	14.09	587
	VS LIGNITE LTPS (IPP) (1*135)	135	0	0	0.00	0
	Kalisindh Thermal(2*600)	1200	481	523	10.80	450
	Kawai(Adani) (2*660)	1320	1096	1037	24.47	1020
	Thermal (Total)	9536	4494	4249	94.17	3924
	Total Hydro	550	0	31	0.33	14
	Wind power	4292	608	52	4.25	177
	Biomass	102	16	16	0.39	16
	Solar	1995	20	0	6.00	250
	Renewable/Others (Total)	6389	644	69	10.63	443
	Total Rajasthan	16475	5138	4348	105.13	4380
	UP	Anpara TPS (3*210+2*500)	1630	1346	1335	33.90
Obra TPS (2*50+2*94+5*200)		1194	349	518	10.80	450
Paricha TPS (2*110+2*220+2*250)		1160	800	808	14.63	610
Panki TPS (2*105)		210	0	0	0.00	0
Harduaganj TPS (1*60+1*105+2*250)		665	444	450	9.20	383
Tanda TPS (NTPC) (4*110)		440	350	332	5.71	238
Roza TPS (IPP) (4*300)		1200	1033	596	16.75	698
Anpara-C (IPP) (2*600)		1200	546	1078	21.16	882
Bajaj Energy Pvt.Ltd(IPP) TPS (10*45)		450	0	0	0.00	0
Anpara-D(2*500)		1000	956	948	21.87	911
Lalitpur TPS(3*660)		1980	1492	1021	26.88	1120
Bara(3*660)		1980	1080	1013	23.35	973
Thermal (Total)		13109	8396	8099	184.25	7677
Vishnupurayag HPS (IPP)(4*110)		440	435	435	10.07	419
Alakananda(4*82.5)		330	346	337	8.25	344
Other Hydro		527	48	87	1.44	60
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	2.86	119	
Renewable(Total)	498	0	0	2.86	119	
Total UP	16264	9475	9208	212.87	8870	
Uttarakhand	Other Hydro	1250	903	943	22.06	919
	Total Gas	450	273	282	6.67	278
	Wind Power	0	0	0	0.00	0
	Biomass	127	0	0	0.00	0
	Solar	100	0	0	0.76	32
	Small Hydro (< 25 MW)	180	0	0	0.00	0
	Renewable(Total)	407	0	0	0.76	32
Total Uttarakhand	2107	1176	1225	29.49	1229	
Delhi	Rajghat TPS (2*67.5)	135	0	0	0.00	0
	Delhi Gas Turbine (6x30 + 3x34)	282	65	130	2.17	90
	Pragati Gas Turbine (2x104+ 1x122)	330	266	263	5.42	226
	Rithala GPS (3*36)	95	0	0	0.00	0
	Bawana GPS (4*216+2*253)	1370	259	261	6.38	266
	Badarpur TPS (NTPC) (3*95+2*210)	705	311	306	6.70	279
	Thermal (Total)	2917	901	960	20.67	861
	Wind Power	0	0	0	0.00	0
	Biomass	16	0	0	0.00	0
	Solar	2	0	0	0.00	0
Renewable(Total)	18	0	0	0.00	0	
Total Delhi	2935	901	960	20.67	861	

HP	Baspa HPS (IPP) (3*100)	300	331	331	7.92	330	
	Malana HPS (IPP) (2*43)	86	82	56	1.67	70	
	Other Hydro (>25MW)	372	276	394	8.83	368	
	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	243	193	4.79	199	
	Renewable(Total)	486	243	193	4.79	199	
	Total HP	1244	932	974	23.21	967	
	J & K	Baglihar HPS (IPP) (3*150+3*150)	900	882	882	21.17	882
		Other Hydro/IPP(including 98 MW Small Hydro)	308	176	178	4.20	175
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	25.37	1057	
Total State Control Area Generation		53860	23499	21293	530.70	22113	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]		11757	11729.2	260.18	10841		
Total Regional Availability(Gross)		80027	55243	49645	1187.35	49473	

IV. Total Hydro Generation:

Regional Entities Hydro	12564	11044	8715	215.23	8894
State Control Area Hydro	7468	4699	4555	100.65	4703
Total Regional Hydro	20032	15742	13270	315.88	13597

V. Total Renewable Generation:

Regional Entities Renewable	30	0	0	0.06	2
State Control Area Renewable	9214	887	261	26.67	1111
Total Regional Renewable	9244	887	261	26.73	1114

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)	-200	-50	200	200	1.29	1.64	-0.35
765 KV Gwalior-Agra (D/C)	2487	2142	2741	0	53.86	0.00	53.86
400 KV Zerda-Kankroli	-45	-71	0	222	0.00	2.97	-2.97
400 KV Zerda-Bhinmal	-55	-62	33	213	0.00	1.81	-1.81
220 KV Auraiya-Malanpur	75	59	10	0	1.44	0.00	1.44
220 KV Badod-Kota/Morak	7	32	168	32	1.65	0.00	1.65
Mundra-Mohindergarh(HVDC Bipole)	1700	742	1710	0	29.62	0.00	29.62
400 KV RAPP-C-Sujalpur	310	235	415	0	6.96	0.00	6.96
400 KV Vindhychal-Rihand	950	974	0	964	0.00	21.90	-21.90
765 KV Phagt-Gwalior (D/C)	63	989	1298	0	22.81	0.00	22.81
+/- 800 KV HVDC Champa-Kurushetra	1650	1500	1650	0	33.64	0	33.64
765KV Orai-Jabalpur	936	861	1227	0	21.76	0	21.76
765KV Orai-Satna	1816	1717	1859	0	43.17	0	43.17
765KV Orai-Gwalior	-347	-317	0	376	0.00	7	-7.39
Sub Total WR	9347	8749			216.21	35.71	180.50
400 kV Sasaram - Varanasi	260	259	264	0	5.92	0.00	5.92
400 kV Sasaram - Allahabad	111	110	149	0	2.90	0.00	2.90
400 kV MZP- GKP (D/C)	352	436	666	0	11.92	0.00	11.92
400 KV Patna-Balia(D/C) X 2	661	852	1026	0	20.58	0.00	20.58
400 KV B Sharif-Balia (D/C)	166	298	369	0	6.38	0.00	6.38
765 KV Gaya-Balia	322	371	404	0	8.00	0.00	8.00
765 KV Gaya-Varanasi (D/C)	-189	-168	204	0	6.14	0.00	6.14
220 KV Pusaali-Sahupuri	172	148	190	0	3.91	0.00	3.91
132 KV Knasa-Sahupuri	0	0	0	0	0.00	0.49	-0.49
132 KV Son Ngr-Rihand	0	0	0	0	0.00	0.36	-0.36
132 KV Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
765 KV Sasaram - Fatehpur	-261	-214	0	273	0.00	3.67	-3.67
400 KV Mothari -GKP (D/C)	-273	-166	0	273	0.00	4.49	-4.49
400 kV B Sharif - Varanasi (D/C)	89	54	-82	144	0.00	0.09	-0.09
+/- 800 KV HVDC Alipurduar-Agra	300	300	300	0	7.10	0.00	7.10
Sub Total ER	1710	2280			72.85	9.09	63.76
+/- 800 KV HVDC Biswanath Chariali-Agra	700	700	700	0.00	15.92	0.00	15.92
Sub Total NER	700	700			15.92	0.00	15.92
Total IR Exch	11757	11729			304.98	44.80	260.18

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
53.90	2.40	56.30	43.87	39.83	-15.48	-1.60	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
82.29	191.43	273.72	79.68	180.50	260.18	-2.61	-10.93	-13.54

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	-26	-14	0	28	0	0	-0.33

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	0.30	2.40	17.80	66.90	76.40	5.40	0.80	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)	
50.16	0.01	49.66	19.48	49.96	0.064	0.070	50.06	49.75	23.60

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	403	2:40	399	14:41	0.0	0.0	0.0	0.0	0.0
Gorakhpur	400	414	7:24	391	19:31	0.0	0.0	0.0	0.0	0.0
Bareilly(PG)400kV	400	410	7:10	392	3:51	0.0	0.0	0.0	0.0	0.0
Kanpur	400	418	7:05	400	23:17	0.0	0.0	0.0	0.0	0.0
Dadri	400	414	7:02	396	12:18	0.0	0.0	0.0	0.0	0.0
Ballabgarh	400	416	7:06	394	14:42	0.0	0.0	0.0	0.0	0.0
Bawana	400	412	7:08	394	23:15	0.0	0.0	0.0	0.0	0.0
Bassi	400	416	3:58	396	19:42	0.0	0.0	0.0	0.0	0.0
Hissar	400	410	7:03	390	12:18	0.0	0.0	0.0	0.0	0.0
Moga	400	407	0:01	394	12:11	0.0	0.0	0.0	0.0	0.0
Abdullapur	400	407	5:20	394	12:18	0.0	0.0	0.0	0.0	0.0
Nalagarh	400	406	5:09	395	13:48	0.0	0.0	0.0	0.0	0.0
Kishenpur	400	411	0:01	400	20:21	0.0	0.0	0.0	0.0	0.0
Wagoora	400	405	1:30	386	20:54	0.0	4.7	0.0	0.0	0.0
Amritsar	400	409	0:02	395	12:18	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	401	7:23	394	19:42	0.0	0.0	0.0	0.0	0.0
Rishikesh	400	404	6:21	388	12:50	0.0	4.9	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	779	7:05	743	19:43	0.0	0.0	0.0	0.0	0.0
Balia	765	782	7:24	748	19:31	0.0	0.0	0.0	0.0	0.0
Moga	765	784	0:02	752	12:17	0.0	0.0	0.0	0.0	0.0
Agra	765	790	7:03	752	19:47	0.0	0.0	0.0	0.0	0.0
Bhiwani	765	791	6:05	759	14:36	0.0	0.0	0.0	0.0	0.0
Unnao	765	767	7:04	737	14:40	0.0	13.9	0.0	0.0	0.0
Lucknow	765	784	7:03	752	23:16	0.0	0.0	0.0	0.0	0.0
Meerut	765	781	0:00	763	13:30	0.0	0.0	0.0	0.0	0.0
Jhatikara	765	787	7:02	750	23:17	0.0	0.0	0.0	0.0	0.0
Bareilly 765 kV	765	784	7:03	754	0:56	0.0	0.0	0.0	0.0	0.0
Anta	765	786	5:05	760	19:53	0.0	0.0	0.0	0.0	0.0
Phagi	765	794	5:05	763	15:00	0.0	0.0	0.0	0.0	0.0

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	454.96	80.53	477.81	414.26	912.00	647.41
Pong	426.72	384.05	391.19	67.89	395.22	131.24	389.75	163.61
Tehri	829.79	740.04	746.10	29.51	747.85	38.49	350.44	165.00
Koteswar	612.50	598.50	610.23	4.69	610.74	4.95	165.00	182.48
Chamera-I	760.00	748.75	755.93	0.00	0.00	0.00	441.60	355.35
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 Saagar	298.70	295.78	0.00	0.00	0.00	0.00	0.00	0.00
RSD	527.91	487.91	504.84	4.51	514.71	6.92	884.91	144.67

* 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	1627	0	0	1627	0	0	39.03	0.00	39.03
Delhi	1148	-324	0	1066	-467	0	28.13	-8.55	19.58
Haryana	1797	115	0	1663	6	0	34.06	1.28	35.34
HP	-1481	-10	0	-1380	-285	0	-30.71	-1.60	-32.31
J&K	-1092	168	0	-1092	509	0	-26.22	14.14	-12.08
CHD	0	10	0	0	-20	0	0.00	0.29	0.29
Rajasthan	-52	-814	0	-52	-1486	0	-1.25	-19.37	-20.62
UP	2218	0	0	1796	0	0	46.85	0.00	46.85
Uttarakhand	-143	44	0	-143	130	0	-3.44	2.90	-0.54
Total	4022	-811	0	3484	-1613	0	86.45	-10.91	75.54

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

State	Bilateral (MW)		IEX (MW)		PXIL (MW)	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Punjab	1627	1522	0	0	0	0
Delhi	1254	1047	-3	-665	0	0
Haryana	1797	1112	117	-430	0	0
HP	-1147	-1481	230	-285	0	0
J&K	-1092	-1092	790	148	0	0
CHD	0	0	44	-30	0	0
Rajasthan	-52	-52	78	-1916	0	0
UP	2224	1753	0	0	0	0
Uttarakhand	-143	-143	244	5	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	0	12
Haryana	2	19
Rajasthan	3	22
Delhi	4	26
UP	0	11
Uttarakhand	4	48
HP	4	15
J & K	5	41
Chandigarh	3	29

XIII. System Constraints:

XIV. Grid Disturbance / Any Other Significant Event:

XV. Weather Conditions For 30.06.2018 :

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 : 30.06.2018

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER