

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(भारत सरकार का उद्यम)

उत्तर क्षेत्रीय भार प्रेषण केंद्र

CIN: U40105DL2009GOI188682

Power Supply Position in Northern Region for 31.05.2018

Date of Reporting : 01.06.2018



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
53325	1262	54587	49.90	52514	1641	54155	50.04	1257.98	16.43

* 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	103.73	10.96	0.00	4.16	0.00	2.66	121.50	72.32	71.69	-0.63	193.19	0.00
Haryana	77.54	0.46	0.00	0.15	0.00	0.62	78.77	100.25	101.47	1.22	180.24	1.61
Rajasthan	122.34	0.02	4.18	8.43	19.02	4.61	158.61	67.89	73.62	5.73	232.23	1.99
Delhi	6.83	0.00	24.19	0.00	0.00	0.00	31.02	100.22	98.83	-1.39	129.85	0.00
UP	192.30	14.18	0.00	3.48	0.00	12.00	221.96	177.84	178.99	1.15	400.94	4.06
Uttarakhand	0.00	15.89	5.73	0.66	0.00	0.00	22.28	22.37	23.01	0.64	45.29	0.00
HP	0.00	15.27	0.00	0.00	0.00	7.84	23.11	9.77	9.12	-0.65	32.23	0.00
J & K	0.00	23.67	0.00	0.00	0.00	0.00	23.67	22.13	13.63	-8.50	37.30	8.77
Chandigarh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.50	6.72	0.22	6.72	0.00
Total	502.75	80.46	34.09	16.86	19.02	27.73	680.91	579.29	577.07	-2.22	1257.98	16.43

* 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	7860	0	68	-533	7730	0	-131	8574	13	0	
Haryana	7786	0	58	191	8039	213	250	498	8140	22	75
Rajasthan	9076	322	592	-97	9343	0	96	-8	10628	24	33
Delhi	5283	0	-17	362	5555	0	96	458	6346	17	0
UP	17961	480	-136	1402	17024	1130	73	1854	18514	24	0
Uttarakhand	2077	0	194	269	1819	0	35	456	2077	20	0
HP	1162	0	-40	-1025	1054	0	-79	-625	1368	11	0
J&K	1842	460	-193	-292	1690	298	121	121	1863	22	466
Chandigarh	278	0	-34	0	260	0	27	30	345	15	0
Total	53325	1262	493	276	52514	1641	123	2654	56243	24	303

* STOAPX 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 (Effective) MW	Declared Capacity(MW)	Peak MW (Gross)	Off Peak MW (Gross)	Energy (Net MU)	Average Sentout(MW)	Schedule Net MU	UI Net MU
Rihand I STPS (2*500)	1000	923	988	925	21.42	893	22.06	-0.64	
Rihand II STPS (2*500)	1000	471	412	500	11.47	478	11.24	0.23	
Rihand III STPS (2*500)	1000	943	1006	994	22.78	949	22.55	0.23	
Dadri I STPS (4*210)	840	769	789	753	16.77	699	18.01	-1.24	
Dadri II STPS (2*490)	980	929	961	960	21.78	908	21.69	0.09	
Unchahar I TPS (2*210)	420	382	414	414	8.96	374	9.07	-0.11	
Unchahar II TPS (2*210)	420	382	423	391	9.19	383	9.11	0.08	
Unchahar III TPS (1*210)	210	48	0	204	1.14	47	1.15	-0.01	
Unchahar IV TPS(1*500)	500	0	0	0	0.00	0	0.00	0.00	
ISTPP (Jhajjar) (3*500)	1500	867	912	841	20.26	844	20.51	-0.25	
Dadri GPS (4*130.19+2*154.51)	830	0	225	299	5.63	235	5.75	-0.12	
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	0.05	2	0.04	0.01	
Singrauli Solar(15)	15	3	0	0	0.07	3	0.04	0.03	
KHEP(4*200)	800	872	718	0	7.86	327	7.25	0.61	
Sub Total (A)	12612	8235	8392	8086	188	7818	188	-0.35	
B. NPC	NAPS (2*220)	440	380	397	416	8.87	369	9.12	-0.25
RAPS- B (2*220)	440	353	394	402	8.51	355	8.47	0.04	
RAPS- C (2*220)	440	410	452	453	9.73	405	9.78	-0.05	
Sub Total (B)	1320	1143	1243	1271	27.11	1130	27.37	-0.26	
C. NHPC	Chamera I HPS (3*180)	540	534	548	182	5.93	247	5.60	0.33
Chamera II HPS (3*100)	300	296	300	301	7.18	299	7.11	0.07	
Chamera III HPS (3*77)	231	229	240	237	5.07	211	4.80	0.27	
Bairasul HPS(3*60)	180	62	121	78	1.79	75	1.49	0.30	
Salaj-HPS (6*115)	690	239	342	675	6.07	253	5.73	0.34	
Tanakpur-HPS (3*31.4)	94	38	45	41	1.11	46	0.91	0.20	
Uri-I HPS (4*120)	480	475	487	483	11.76	490	11.40	0.36	
Uri-II HPS (4*60)	240	238	245	245	5.84	243	5.70	0.14	
Dhauliganga-HPS (4*70)	280	277	277	70	3.49	146	3.35	0.14	
Dulhasti-HPS (3*130)	390	387	402	393	9.48	395	9.28	0.20	
Sewa-II HPS (3*40)	120	125	116	0	0.41	17	0.40	0.01	
Parbati 3 (4*130)	520	109	257	34	2.35	98	2.61	-0.26	
Kishanganga(3*110)	330	0	184	184	4.24	177	4.35	-0.11	
Sub Total (C)	4395	3008	3564	2922	65	2696	63	1.98	
D.SJVNL	NJPC (6*250)	1500	1497	1361	742	23.84	993	23.60	0.24
Rampur HEP (6*68.67)	412	412	371	214	6.78	282	6.56	0.22	
Sub Total (D)	1912	1910	1732	956	30.62	1276	30.16	0.46	
E. THDC	Tehri HPS (4*250)	1000	512	522	0	4.00	167	3.93	0.07
Koteswar HPS (4*100)	400	86	202	72	2.24	93	2.07	0.17	
Sub Total (E)	1400	598	724	72	6.24	260	6.00	0.24	
F. BBMB	Bhakra HPS (2*108+3*126+5*157)	1379	605	1020	512	14.53	605	14.53	0.00
Dehar HPS (6*165)	990	476	825	330	11.58	482	11.43	0.15	
Pong HPS (6*68)	396	34	98	0	0.84	35	0.80	0.04	
Sub Total (F)	2765	1115	1943	842	26.94	1123	26.76	0.18	
G. IPP(s)/JV(s)	Allain DuhanganHPS(IPP) (2*96)	192	0	149	140	2.83	118	2.10	0.73
Karcham Wangtoo HPS(IPP) (4*250)	1000	0	1000	0	12.88	537	12.17	0.71	
Malana Sta-II HPS (2*50)	100	0	81	101	1.25	52	1.22	0.03	
Shree Cement TPS (2*150)	300	0	254	256	6.14	256	6.19	-0.05	
Budhil HPS(IPP) (2*35)	70	0	73	70	1.35	56	1.37	-0.02	
Sani HPS (IPP) (2*50)	100	0	0	0	0.00	0	1.19	0.00	
Sub Total (G)	1762	0	1557	567	24.45	1019	23.05	1.40	
H. Total Regional Entities (A-G)	26167	16009	19154	14716	367.70	15321	364.04	3.66	

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	650	680	16.38	683
	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	805	832	19.42	809
	Goidwal(GVK) (2*270)	540	350	290	8.38	349
	Rajpura (2*700)	1400	1320	1320	31.29	1304
	Talwandi Saboo (3*660)	1980	1150	1350	28.28	1178
	Thermal (Total)	6560	4275	4472	103.73	4322
	Total Hydro	1000	396	425	10.96	457
	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	4671	4897	121.50	5063
	Haryana	Panipat TPS (2*210+2*250)	920	577	630	14.31
DCRTPP (Yamuna nagar) (2*300)		600	482	545	12.44	518
Faridabad GPS (NTPC)(2*137.75+1*156)		432	0	0	0.00	0
RGTPP (khedan) (IPP) (2*600)		1200	792	1117	23.37	974
Magnum Diesel (IPP)		25	0	0	0.00	0
Jhajjar(CLP) (2*660)		1320	1113	1134	27.43	1143
Thermal (Total)		4497	2964	3426	77.54	3231
Total Hydro		62	11	19	0.46	19
Wind Power		0	0	0	0.00	0
Biomass		106	0	0	0.62	26
Solar		50	0	0	0.15	6
Renewable(Total)		156	0	0	0.77	32
Total Haryana		4715	2975	3445	78.77	3282
Rajasthan		kota TPS (2*110+2*195+3*210)	1240	988	935	23.19
	suratgarh TPS (6*250)	1500	1336	1326	31.71	1321
	Chabra TPS (4*250)	1000	690	689	17.17	715
	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	169	173	4.18	174
	RAPS A (NPC) (1*100+1*200)	300	170	173	4.00	167
	Barsingsar (NLC) (2*125)	250	115	196	3.67	153
	Giral LTPS (2*125)	250	0	0	0.00	0
	Rajwest LTPS (IPP) (8*135)	1080	861	843	20.54	856
	VS LIGNITE LTPS (IPP) (1*135)	135	0	0	0.00	0
	Kalisindh Thermal(2*600)	1200	559	561	12.97	540
	Kawai(Adani) (2*660)	1320	538	545	13.09	545
	Thermal (Total)	9536	5426	5441	130.52	5438
	Total Hydro	550	0	0	0.02	1
	Wind power	4292	111	1317	19.02	793
	Biomass	102	26	26	0.61	26
	Solar	1995	28	0	8.43	351
	Renewable/Others (Total)	6389	165	1343	28.06	1169
	Total Rajasthan	16475	5591	6784	158.61	6609
	UP	Anpara TPS (3*210+2*500)	1630	1306	1153	30.55
Obra TPS (2*50+2*94+5*200)		1194	307	312	8.05	335
Paricha TPS (2*110+2*220+2*250)		1160	711	628	16.05	669
Panki TPS (2*105)		210	0	0	0.00	0
Harduaganj TPS (1*60+1*105+2*250)		665	533	547	12.99	541
Tanda TPS (NTPC) (4*110)		440	373	362	8.86	369
Roza TPS (IPP) (4*300)		1200	803	769	19.46	811
Anpara-C (IPP) (2*600)		1200	1087	611	20.03	834
Bajaj Energy Pvt.Ltd(IPP) TPS (10*45)		450	401	401	8.95	373
Anpara-D(2*500)		1000	901	900	21.62	901
Lalitpur TPS(3*660)		1980	1239	1238	22.43	935
Bara(3*660)		1980	1113	1106	23.31	971
Thermal (Total)		13109	8774	8027	192.30	8013
Vishnuparag HPS (IPP)(4*110)		440	435	435	9.52	397
Alakananda(4*82.5)		330	82	82	2.75	115
Other Hydro		527	146	57	1.91	80
Cogeneration		1360	500	500	12.00	500
Wind Power		0	0	0	0.00	0
Biomass	26	0	0	0.00	0	
Solar	472	0	0	3.48	145	
Renewable(Total)	498	0	0	3.48	145	
Total UP	16264	9937	9101	221.96	9248	
Uttarakhand	Other Hydro	1250	717	544	15.89	662
	Total Gas	450	237	247	5.73	239
	Wind Power	0	0	0	0.00	0
	Biomass	127	0	0	0.00	0
	Solar	100	0	0	0.66	27
	Small Hydro (< 25 MW)	180	0	0	0.00	0
	Renewable(Total)	407	0	0	0.66	27
	Total Uttarakhand	2107	954	791	22.28	928
Delhi	Rajghat TPS (2*67.5)	135	0	0	0.00	0
	Delhi Gas Turbine (6x30 + 3x34)	282	139	143	3.45	144
	Pragati Gas Turbine (2x104+ 1x122)	330	268	269	6.60	275
	Rithala GPS (3*36)	95	0	0	0.00	0
	Bawana GPS (4*216+2*253)	1370	561	561	14.14	589
	Badarpur TPS (NTPC) (3*95+2*210)	705	317	307	6.83	285
	Thermal (Total)	2917	1285	1280	31.02	1293
	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	1285	1280	31.02	1293	

HP	Baspa HPS (IPP) (3*100)	300	330	300	6.36	265
	Malana HPS (IPP) (2*43)	86	36	75	1.07	45
	Other Hydro (>25MW)	372	326	350	7.84	327
	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	326	132	7.84	327
	Renewable(Total)	486	326	132	7.84	327
	Total HP	1244	1019	857	23.11	963
	J & K	Baglihar HPS (IPP) (3*150+3*150)	900	880	882	20.18
Other Hydro/IPP(Including 98 MW Small Hydro)	308	159	132	3.49	145	
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	1039	1014	23.67	986	
Total State Control Area Generation		53860	27471	28169	680.91	28371
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			9106	10358	244.99	10208
Total Regional Availability(Gross)		80027	55731	53243	1293.59	53900

IV. Total Hydro Generation:

Regional Entities Hydro	12564	9911	5033	154.68	6389
State Control Area Hydro	7468	4082	3680	80.46	3945
Total Regional Hydro	20032	13992	8713	235.13	10334

V. Total Renewable Generation:

Regional Entities Renewable	30	0	0	0.15	6
State Control Area Renewable	9214	491	1475	47.62	1984
Total Regional Renewable	9244	491	1475	47.76	1990

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	200	250	0	5.24	0.00	5.24
765 KV Gwalior-Agra (D/C)	1071	1286	1286	0	24.37	0.00	24.37
400 KV Zerda-Kankroli	-236	-348	0	471	0.00	8.45	-8.45
400 KV Zerda-Bhinmal	-113	-292	0	437	0.00	6.33	-6.33
220 KV Auraiya-Malanpur	12	74	0	15	0.45	0.00	0.45
220 KV Badod-Kota/Morak	6	-84	32	111	0.46	0.00	0.46
Mundra-Mohindergarh(HVDC Bipole)	1402	1598	1803	0	37.49	0.00	37.49
400 KV RAPP-C-Sujalpur	223	103	223	8	3.06	0.00	3.06
400 KV Vindhychal-Rihand	958	946	0	968	0.00	23.13	-23.13
765 KV Phagt-Gwalior (D/C)	1428	1255	1428	0	30.88	0.00	30.88
+/- 800 KV HVDC Champa-Kurushetra	1500	2400	2400	0	49.28	0	49.28
765KV Orai-Jabalpur	0	0	0	0	21.55	0	21.55
765KV Orai-Satna	0	0	0	0	43.14	0	43.14
765KV Orai-Gwalior	0	0	0	0	0.00	7	-6.85
Sub Total WR	6501	7138			215.91	44.77	171.14
400 kV Sasaram - Varanasi	41	46	0	106	0.00	1.79	-1.79
400 kV Sasaram - Allahabad	60	52	0	64	0.00	0.73	-0.73
400 KV MZP- GKP (D/C)	236	294	616	0	8.21	0.00	8.21
400 KV Patna-Balia(D/C) X 2	113	397	625	0	9.49	0.00	9.49
400 KV B Sharif-Balia (D/C)	197	266	337	0	6.16	0.00	6.16
765 KV Gaya-Balia	568	527	568	0	10.96	0.00	10.96
765 KV Gaya-Varanasi (D/C)	0	296	342	0	5.91	0.00	5.91
220 KV Pusaui-Sahupuri	178	179	180	0	4.23	0.00	4.23
132 KV Knasa-Sahupuri	0	0	0	0	0.96	0.00	0.96
132 KV Son Ngr-Rihand	-8	-24	0	-30	0.00	-0.03	0.03
132 KV Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
765 KV Sasaram - Fatehpur	43	4	240	8	2.25	0.00	2.25
400 KV Mothari -GKP (D/C)	109	140	207	0	3.05	0.00	3.05
400 kV B Sharif - Varanasi (D/C)	62	43	234	0	1.75	0.00	1.75
+/- 800 KV HVDC Alipurduar-Agra	1006	500	1006	0	18.03	0.00	18.03
Sub Total ER	2605	2720			70.99	2.49	68.50
+/- 800 KV HVDC Biswanath Chariali-Agra	0	500	500	0.00	5.34	0.00	5.34
Sub Total NER	0	500			5.34	0.00	5.34
Total IR Exch	9106	10358			292.24	47.26	244.99

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
59.06	1.31	60.37	25.97	5.27	-1.70	2.56	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
83.33	149.62	232.95	73.84	171.14	244.99	-9.49	21.52	12.04

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	-16	-22	0	28	0	1	-0.53

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	0.70	8.10	42.10	87.30	56.70	1.20	0.00	0.00	0.00

<----- Frequency (Hz) ----->				Average Frequency Hz	Frequency Variation Index	Std. Dev.	Frequency in 15 Min Block		Freq Dev Index (% of Time)
Maximum		Minimum					MAX	MIN	
Freq	Time	Freq	Time	Hz			(Hz)	(Hz)	
50.10	18.01	49.63	14.50	49.91	0.140	0.078	50.04	49.72	43.30

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	408	5:58	399	21:46	0.0	0.0	0.0	0.0	0.0
Gorakhpur	400	417	5:08	394	20:32	0.0	0.0	0.0	0.0	0.0
Bareilly(PG)400kV	400	412	6:33	392	14:48	0.0	0.0	0.0	0.0	0.0
Kanpur	400	417	6:36	399	20:36	0.0	0.0	0.0	0.0	0.0
Dadri	400	412	6:30	394	14:45	0.0	0.0	0.0	0.0	0.0
Ballabgarh	400	414	6:01	394	14:44	0.0	0.0	0.0	0.0	0.0
Bawana	400	411	6:33	394	12:17	0.0	0.0	0.0	0.0	0.0
Bassi	400	412	4:02	389	23:13	0.0	0.1	0.0	0.0	0.0
Hissar	400	405	6:01	392	11:26	0.0	0.0	0.0	0.0	0.0
Moga	400	405	6:00	393	11:34	0.0	0.0	0.0	0.0	0.0
Abdullapur	400	410	6:00	397	12:18	0.0	0.0	0.0	0.0	0.0
Nalagarh	400	411	4:31	396	12:19	0.0	0.0	0.0	0.0	0.0
Kishenpur	400	410	6:02	396	12:18	0.0	0.0	0.0	0.0	0.0
Wagooora	400	404	5:02	391	11:22	0.0	0.0	0.0	0.0	0.0
Amritsar	400	406	3:30	393	12:17	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	403	4:26	388	12:17	0.0	2.8	0.0	0.0	0.0
Rishikesh	400	412	6:35	386	12:21	0.0	7.3	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	4:29	750	20:27	0.0	0.0	0.0	0.0	0.0
Balia	765	787	5:08	757	20:34	0.0	0.0	0.0	0.0	0.0
Moga	765	782	6:01	754	12:19	0.0	0.0	0.0	0.0	0.0
Agra	765	786	6:01	755	11:29	0.0	0.0	0.0	0.0	0.0
Bhiwani	765	795	6:01	761	12:20	0.0	0.0	0.0	0.0	0.0
Unnao	765	773	6:36	742	19:28	0.0	0.0	0.0	0.0	0.0
Lucknow	765	785	6:34	754	20:55	0.0	0.0	0.0	0.0	0.0
Meerut	765	800	6:35	760	12:17	0.0	0.0	0.0	0.0	0.0
Jhatikara	765	795	6:01	755	12:21	0.0	0.0	0.0	0.0	0.0
Bareilly 765 kV	765	787	6:35	751	20:56	0.0	0.0	0.0	0.0	0.0
Anta	765	788	4:00	766	23:28	0.0	0.0	0.0	0.0	0.0
Phagi	765	792	4:01	764	12:21	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	454.46	74.65	473.34	324.41	430.93	567.81
Pong	426.72	384.05	391.94	80.40	394.42	116.59	22.96	68.19
Tehri	829.79	740.04	743.20	15.14	744.00	19.04	158.16	144.00
Koteswar	612.50	598.50	610.41	4.77	609.90	4.44	144.00	148.30
Chamera-I	760.00	748.75	753.67	0.00	0.00	0.00	207.77	161.15
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	498.89	3.33	514.24	2.99	155.87	138.28

* 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	121	-252	0	121	-654	0	2.90	-7.65	-4.75
Delhi	645	-186	0	543	-181	0	15.03	-2.06	12.97
Haryana	494	5	0	177	14	0	4.35	-0.54	3.81
HP	-485	-140	0	-641	-385	0	-10.22	-4.23	-14.45
J&K	-763	885	0	-780	488	0	-18.42	15.42	-3.00
CHD	0	30	0	0	0	0	0.00	1.06	1.06
Rajasthan	-8	0	0	-8	-89	0	-0.20	8.67	8.47
UP	1854	0	0	1392	10	0	41.41	-7.04	34.37
Uttarakhand	64	392	0	59	210	0	1.27	6.53	7.80
Total	1920	734	0	863	-587	0	36.12	10.16	46.28

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

State	Bilateral (MW)		IEX (MW)		PXIL (MW)	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Punjab	121	121	-252	-654	0	0
Delhi	742	522	380	-828	0	0
Haryana	494	-54	26	-282	0	0
HP	-181	-721	137	-406	0	0
J&K	-763	-780	885	291	0	0
CHD	0	0	99	0	0	0
Rajasthan	-8	-8	1082	-96	0	0
UP	1868	1152	502	-1134	0	0
Uttarakhand	64	34	392	71	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	1.74%

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

WR	1.04%
ER	0.35%
Simultaneous	20.14%

(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	10
Haryana	2	23
Rajasthan	4	35
Delhi	3	35
UP	0	7
Uttarakhand	4	60
HP	3	17
J & K	4	27
Chandigarh	6	38

XIII. System Constraints:

XIV. Grid Disturbance / Any Other Significant Event:

XV. Weather Conditions For 31.05.2018 :

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 : 31.05.2018

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER