

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(भारत सरकार का उद्यम)

उत्तर क्षेत्रीय भार प्रेषण केंद्र

CIN: U40105DL2009GO118682

Power Supply Position in Northern Region for 28.07.2018

Date of Reporting : 29.07.2018



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
47143	1257	48400	49.80	40279	207	40486	50.05	1020.06	10.54

* 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	55.57	13.37	0.00	3.54	0.00	2.26	74.73	135.04	134.30	-0.74	209.03	0.00
Haryana	14.30	0.00	0.00	0.12	0.00	0.58	15.00	125.88	127.28	1.40	142.28	0.00
Rajasthan	74.69	0.21	3.11	7.08	36.17	0.24	121.50	66.15	66.62	0.47	188.12	0.00
Delhi	6.52	0.00	5.39	0.00	0.00	1.03	12.94	81.59	82.13	0.54	95.07	0.05
UP	114.60	17.50	0.00	2.40	0.00	2.40	136.90	148.46	149.16	0.70	286.06	0.00
Uttarakhand	0.00	4.53	0.00	0.06	0.00	0.00	4.58	27.19	27.88	0.69	32.46	1.42
HP	0.00	9.51	0.00	0.00	0.00	6.38	15.89	4.33	8.30	-3.97	24.19	0.00
J & K	0.00	25.61	0.00	0.00	0.00	0.00	25.61	16.45	12.49	-3.96	38.10	9.07
Chandigarh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.73	4.75	-0.98	4.75	0.00
Total	265.67	70.73	8.50	13.20	36.17	12.89	407.15	610.82	612.91	2.09	1020.06	10.54

* 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	8984	0	-103	1899	7538	0	-15	2202	9316	23	0
Haryana	6891	0	-140	2257	5838	0	166	2509	7139	21	0
Rajasthan	7698	0	-35	103	7425	0	51	-209	8746	23	0
Delhi	4179	0	64	615	3712	0	99	680	4424	17	0
UP	14672	600	87	1010	12289	0	-37	1888	15140	24	0
Uttarakhand	1429	160	13	363	1308	0	-78	235	1530	12	0
HP	1072	0	229	-1994	829	0	144	-1513	1164	11	0
J&K	1987	497	11	-637	1173	207	-171	-1052	2024	21	506
Chandigarh	231	0	-51	-60	167	0	-18	-45	232	23	0
Total	47143	1257	75	3556	40279	207	140	4695	48247	21	1321

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

III. Regional Entities :

Entity	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	Net MU
A. NTPC	Singrauli STPS (6*200+2*500)	2000	1225	1353	1309	27.48	1145	26.56	0.92	
	Rihand I STPS (2*500)	1000	923	1002	984	20.49	854	19.98	0.50	
	Rihand II STPS (2*500)	1000	943	1004	997	20.84	868	20.42	0.41	
	Rihand III STPS (2*500)	1000	943	998	856	19.87	828	19.12	0.75	
	Dadri I STPS (4*210)	840	576	366	356	9.15	381	9.18	-0.03	
	Dadri II STPS (2*490)	980	929	789	778	17.45	727	16.87	0.58	
	Unchahar I TPS (2*210)	420	382	377	246	6.94	289	7.33	-0.39	
	Unchahar II TPS (2*210)	420	191	205	148	3.53	147	3.47	0.06	
	Unchahar III TPS (1*210)	210	191	205	141	3.44	143	3.50	-0.06	
	Unchahar IV TPS(1*500)	500	0	0	0	0.00	0	0.00	0.00	
	ISTPP (Jhajjar) (3*500)	1500	1421	968	326	11.96	499	11.72	0.24	
	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	
	Auraya GPS (4*111.19+2*109.30)	663	0	94	135	2.55	106	2.60	-0.05	
	Dadri Solar(5)	5	0	0	0	0.00	0	0.01	-0.01	
	Unchahar Solar(10)	10	1	0	0	0.03	1	0.03	0.00	
	Singrauli Solar(15)	15	1	0	0	0.05	2	0.03	0.02	
	KHEP(4*200)	800	872	867	868	20.89	871	20.83	0.06	
	Sub Total (A)	12612	8598	8228	7144	165	6861	162	3.01	
	B. NPC	NAPS (2*220)	440	383	416	420	9.18	383	9.19	-0.01
RAPS- B (2*220)		440	358	401	400	8.57	357	8.59	-0.02	
RAPS- C (2*220)		440	409	450	452	9.73	405	9.78	-0.05	
Sub Total (B)		1320	1150	1267	1272	27.48	1145	27.56	-0.08	
C. NHPC	Chamera I HPS (3*180)	540	534	542	538	12.95	540	12.82	0.13	
	Chamera II HPS (3*100)	300	297	301	304	7.24	302	7.12	0.12	
	Chamera III HPS (3*77)	231	229	239	234	5.65	235	5.48	0.17	
	Bairasul HPS(3*60)	180	120	181	181	2.93	122	2.87	0.06	
	Salaj-HPS (6*115)	690	687	703	706	16.94	706	16.48	0.46	
	Tanakpur-HPS (3*31.4)	94	0	0	0	0.00	0	0.00	0.00	
	Uri-I HPS (4*120)	480	475	480	480	11.50	479	11.39	0.11	
	Uri-II HPS (4*60)	240	240	242	242	5.75	240	5.75	0.00	
	Dhauliganga-HPS (4*70)	280	245	289	274	5.97	249	5.84	0.13	
	Dulhasti-HPS (3*130)	390	260	269	268	6.31	263	6.17	0.14	
	Sewa-II HPS (3*40)	120	120	128	129	2.28	95	2.20	0.08	
	Parbati 3 (4*130)	520	349	515	155	8.35	348	8.38	-0.03	
	Kishanganga(3*110)	330	182	219	165	4.52	188	4.38	0.14	
	Sub Total (C)	4395	3736	4108	3676	90	3766	89	1.51	
	D.SJVNL	NJPC (6*250)	1500	806	1643	0	19.46	811	19.33	0.13
Rampur HEP (6*68.67)		412	258	457	0	5.46	228	5.34	0.12	
Sub Total (D)		1912	1063	2100	0	24.92	1038	24.67	0.25	
E. THDC	Tehri HPS (4*250)	1000	857	889	600	13.39	558	13.18	0.21	
	Koteswar HPS (4*100)	400	219	399	202	5.26	219	5.26	0.00	
	Sub Total (E)	1400	1076	1288	802	18.65	777	18.44	0.21	
F. BBMB	Bhakra HPS (2*108+3*126+5*157)	1379	627	1118	406	15.26	636	15.05	0.21	
	Dehar HPS (6*165)	990	609	825	495	14.73	614	14.62	0.11	
	Pong HPS (6*68)	386	141	224	55	3.40	142	3.38	0.02	
	Sub Total (F)	2765	1377	2167	956	33.39	1391	33.05	0.34	
G. IPP(s)/JV(s)	Allain DuhanganHPS(IPP) (2*96)	192	0	230	192	4.97	207	4.81	0.16	
	Karcham Wangtoo HPS(IPP) (4*250)	1000	0	1100	1100	26.43	1101	26.08	0.35	
	Malana Sta-II HPS (2*50)	100	0	113	113	2.68	112	2.34	0.34	
	Shree Cement TPS (2*150)	300	0	127	68	3.45	144	2.26	1.19	
	Budhil HPS(IPP) (2*35)	70	0	75	74	1.79	74	1.65	0.14	
	Sani HPS (IPP) (2*50)	100	0	0	0	0.00	0	2.49	0.00	
Sub Total (G)	1762	0	1645	1547	39.32	1638	37.14	2.18		
H. Total Regional Entities (A-G)	26167	17001	20803	15398	398.80	16617	391.39	7.41		

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	160	160	3.83	160
	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	0	0	0.13	5
	Goindwal(GVK) (2*270)	540	246	145	5.23	218
	Rajpura (2*700)	1400	1020	660	23.28	970
	Talwandi Saboo (3*660)	1980	924	924	23.08	962
	Thermal (Total)	6560	2350	1889	55.57	2315
	Total Hydro	1000	701	363	13.37	557
	Wind Power	0	0	0	0.00	0
	Biomass	303	0	0	2.26	94
	Solar	859	0	0	3.54	147
	Renewable(Total)	1162	0	0	5.80	242
	Total Punjab	8722	3051	2252	74.73	3114
	Haryana	Panipat TPS (2*210+2*250)	920	0	0	0.00
DCRTPP (Yamuna nagar) (2*300)		600	232	235	5.39	224
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	382	377	8.91	371
Thermal (Total)		4497	614	612	14.30	596
Total Hydro		62	0	0	0.00	0
Wind Power		0	0	0	0.00	0
Biomass		106	0	0	0.58	24
Solar		50	0	0	0.12	5
Renewable(Total)		156	0	0	0.70	29
Total Haryana		4715	614	612	15.00	625
Rajasthan		kota TPS (2*110+2*195+3*210)	1240	245	154	4.57
	suratgarh TPS (6*250)	1500	196	182	4.35	181
	Chabra TPS (4*250)	1000	825	819	19.48	812
	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	126	130	3.11	130
	RAPS A (NPC) (1*100+1*200)	300	0	0	0.00	0
	Barsingsar (NLC) (2*125)	250	0	0	0.05	2
	Giral LTPS (2*125)	250	0	0	0.00	0
	Rajwest LTPS (IPP) (8*135)	1080	779	739	14.87	620
	VS LIGNITE LTPS (IPP) (1*135)	135	0	0	0.00	0
	Kalisindh Thermal(2*600)	1200	412	417	9.85	411
	Kawai(Adani) (2*660)	1320	868	858	21.52	896
	Thermal (Total)	9536	3451	3299	77.80	3242
	Total Hydro	550	0	29	0.21	9
	Wind power	4292	1194	1738	36.17	1507
	Biomass	102	10	10	0.24	10
	Solar	1995	24	0	7.08	295
	Renewable/Others (Total)	6389	1228	1748	43.49	1812
	Total Rajasthan	16475	4679	5076	121.50	5062
	UP	Anpara TPS (3*210+2*500)	1630	1303	830	25.00
Obra TPS (2*50+2*94+5*200)		1194	501	309	8.40	350
Paricha TPS (2*110+2*220+2*250)		1160	779	471	12.80	533
Panki TPS (2*105)		210	0	0	0.00	0
Harduaganj TPS (1*60+1*105+2*250)		665	438	253	7.10	296
Tanda TPS (NTPC) (4*110)		440	275	516	5.90	246
Roza TPS (IPP) (4*300)		1200	0	0	0.00	0
Anpara-C (IPP) (2*600)		1200	1096	652	18.60	775
Bajaj Energy Pvt.Ltd(IPP) TPS (10*45)		450	0	0	0.00	0
Anpara-D(2*500)		1000	949	938	19.10	796
Lalitpur TPS(3*660)		1980	575	358	9.60	400
Bara(3*660)		1980	449	358	8.10	338
Thermal (Total)		13109	6365	4685	114.60	4775
Vishnupurayag HPS (IPP)(4*110)		440	435	435	10.50	438
Alakananada(4*82.5)		330	218	280	5.50	229
Other Hydro		527	147	27	1.50	63
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	2.40	100	
Renewable(Total)	498	0	0	2.40	100	
Total UP	16264	7265	5527	136.90	5704	
Uttarakhand	Other Hydro	1250	107	339	4.53	189
	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	0.06	2
	Small Hydro (< 25 MW)	180	0	0	0.00	0
	Renewable(Total)	407	0	0	0.06	2
	Total Uttarakhand	2107	107	339	4.58	191
Delhi	Rajghat TPS (2*67.5)	135	0	0	0.00	0
	Delhi Gas Turbine (6x30 + 3x34)	282	66	66	1.62	67
	Pragati Gas Turbine (2x104+ 1x122)	330	149	147	3.66	152
	Rithala GPS (3*36)	95	0	0	0.00	0
	Bawana GPS (4*216+2*253)	1370	-4	-4	0.12	5
	Badarpur TPS (NTPC) (3*95+2*210)	705	297	303	6.52	272
	Thermal (Total)	2917	508	512	11.91	496
	Wind Power	0	0	0	0.00	0
	Biomass	16	32	39	1.03	43
	Solar	2	0	0	0.00	0
Renewable(Total)	18	32	39	1.03	43	
Total Delhi	2935	540	551	12.94	539	

HP	Baspa HPS (IPP) (3*100)	300	0	0	0.00	0	
	Malana HPS (IPP) (2*43)	86	106	104	2.52	105	
	Other Hydro (>25MW)	372	352	221	6.99	291	
	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	281	275	6.38	266	
	Renewable(Total)	486	281	275	6.38	266	
	Total HP	1244	738	600	15.89	662	
	J & K	Baglihar HPS (IPP) (3*150+3*150)	900	883	883	21.19	883
		Other Hydro/IPP(including 98 MW Small Hydro)	308	191	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 Above		98	0	0	0.00	0	
Renewable(Total)		98	0	0	0.00	0	
Total J & K		1208	1074	1073	25.61	1067	
Total State Control Area Generation		53670	18068	16030	407.15	16964	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]		12613	10741.36	240.54	10022		
Total Regional Availability(Gross)		79837	51484	42169	1046.49	43604	

IV. Total Hydro Generation:

Regional Entities Hydro	12564	11973	7707	224.11	9263
State Control Area Hydro	7468	3420	3146	70.73	3215
Total Regional Hydro	20032	15394	10853	294.83	12478

V. Total Renewable Generation:

Regional Entities Renewable	30	0	0	0.08	3
State Control Area Renewable	9214	1541	2062	59.85	2494
Total Regional Renewable	9244	1541	2062	59.93	2497

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	0	250	0.00	6.05	-6.05
765 KV Gwalior-Agra (D/C)	2132	1947	2403	0	47.64	0.00	47.64
400 KV Zerdar-Kankroli	169	-44	178	139	0.79	0.00	0.79
400 KV Zerdar-Bhinmal	138	-95	191	173	0.69	0.00	0.69
220 KV Auraiya-Malanpur	1	2	0	63	0.07	0.00	0.07
220 KV Badod-Kota/Morak	128	190	256	0	2.95	0.00	2.95
Mundra-Mohindergarh(HVDC Bipole)	700	1200	1203	0	18.85	0.00	18.85
400 KV RAPPK-Sujalpur	294	132	334	16	4.94	0.00	4.94
400 KV Vindhychal-Rihand	-946	-686	0	952	0.00	19.89	-19.89
765 kv Phagt-Gwalior (D/C)	1254	1059	1410	0	28.72	0.00	28.72
+/- 800 KV HVDC Champa-Kurushetra	2500	1000	2000	0	21.46	0	21.46
765KV Orai-Jabalpur	1046	968	1225	0	21.83	0	21.83
765KV Orai-Satna	1659	1524	1725	0	37.84	0	37.84
765KV Orai-Gwalior	447	313	0	447	0.00	9	-8.59
Sub Total WR	9273	7259			185.76	34.53	151.23
400 kV Sasaram - Varanasi	110	103	114	0	2.27	0.00	2.27
400 kV Sasaram - Allahabad	34	39	70	0	1.13	0.00	1.13
400 KV MZP- GKP (D/C)	566	685	848	0	16.08	0.00	16.08
400 KV Patna-Balia(D/C) X 2	803	838	984	0	19.71	0.00	19.71
400 KV B Sharif-Balia (D/C)	243	296	460	0	8.08	0.00	8.08
765 KV Gaya-Balia	314	271	355	0	6.64	0.00	6.64
765 KV Gaya-Varanasi (D/C)	355	298	483	0	8.57	0.00	8.57
220 KV Pusaui-Sahupuri	142	125	144	0	2.93	0.00	2.93
132 KV Knasa-Sahupuri	0	0	0	0	0.92	0.00	0.92
132 KV Son Ngr-Rihand	0	0	0	0	0.00	0.43	-0.43
132 KV Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
765 KV Sasaram - Fatehpur	-91	-75	104	113	0.00	0.42	-0.42
400 KV Mothari -GKP (D/C)	-225	-248	0	283	0.00	4.68	-4.68
400 kV B Sharif - Varanasi (D/C)	89	150	303	0	4.64	0.00	4.64
+/- 800 KV HVDC Alipurduar-Agra	400	400	400	0	9.52	0.00	9.52
Sub Total ER	2740	2882			80.48	5.53	74.95
+/- 800 KV HVDC Biswanath Chariali-Agra	600	600	600	0.00	14.36	0.00	14.36
Sub Total NER	600	600			14.36	0.00	14.36
Total IR Exch	12613	10741			280.60	40.06	240.54

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
42.37	3.74	46.11	30.98	60.69	-6.64	4.53	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
66.71	188.85	255.56	89.31	151.23	240.54	22.60	-37.62	-15.02

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	-21	-16	0	22	0	0	-0.26

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	0.60	12.70	69.90	80.70	5.80	1.10	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)	
50.17	13.02	49.74	19.39	49.97	0.046	0.059	0.00	0.00	19.30

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	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
Ballabgarh	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. 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	475.31	356.29	493.92	858.11	2184.08	508.88
Pong	426.72	384.05	398.71	191.43	408.64	454.47	1354.87	247.46
Tehri	829.79	740.04	791.40	474.07	793.05	499.07	1159.55	346.00
Koteswar	612.50	598.50	611.06	5.10	609.84	4.49	346.00	347.80
Chamera-I	760.00	748.75	757.82	0.00	0.00	0.00	431.22	352.09
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	509.37	4.93	521.81	7.15	687.12	236.01

* 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	2202	0	0	2200	-301	0	52.83	-1.21	51.62
Delhi	1078	-398	0	951	-337	0	22.68	-6.20	16.48
Haryana	2341	168	0	2255	3	0	47.96	-0.87	47.09
HP	-1255	-258	0	-1665	-329	0	-33.72	-6.39	-40.11
J&K	-1150	99	0	-1151	514	0	-27.61	11.11	-16.50
CHD	0	-45	0	0	-60	0	0.00	-0.67	-0.67
Rajasthan	-37	-172	0	-37	140	0	-0.90	0.25	-0.65
UP	1888	0	0	1721	-710	0	40.88	-4.81	36.07
Uttarakhand	-203	438	0	-255	618	0	-5.13	13.48	8.35
Total	4863	-168	0	4018	-462	0	96.99	4.69	101.68

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

State	Bilateral (MW)		IEX (MW)		PXIL (MW)	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Punjab	2202	2194	0	-301	0	0
Delhi	1245	553	-62	-498	0	0
Haryana	2385	1763	171	-880	0	0
HP	-1115	-1867	-236	-329	0	0
J&K	-1150	-1152	662	99	0	0
CHD	0	0	0	-65	0	0
Rajasthan	-37	-38	218	-644	0	0
UP	2008	1486	0	-1015	0	0
Uttarakhand	-203	-255	699	419	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	1	13
Haryana	1	18
Rajasthan	1	19
Delhi	2	17
UP	0	12
Uttarakhand	1	23
HP	3	19
J & K	2	23
Chandigarh	4	39

XIII. System Constraints:

XIV. Grid Disturbance / Any Other Significant Event:

XV. Weather Conditions For 28.07.2018 :

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 : 28.07.2018

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER