

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(भारत सरकार का उपक्रम)

उत्तर क्षेत्रीय भार प्रेषण केंद्र

CIN: U40105DL2009GO118682

Power Supply Position in Northern Region for 23.07.2018

Date of Reporting : 24.07.2018



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
51541	1205	52746	49.80	46325	221	46547	50.05	1155.57	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:

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	63.16	17.51	0.00	4.49	0.00	1.75	86.91	142.37	141.56	-0.81	228.46	0.00
Haryana	26.49	0.98	0.00	0.13	0.00	0.63	28.23	134.02	135.35	1.33	163.59	0.20
Rajasthan	74.55	0.44	3.17	4.60	20.85	0.20	103.81	60.03	61.74	1.71	165.56	0.00
Delhi	6.63	0.00	14.70	0.00	0.00	0.99	22.32	91.96	90.19	-1.77	112.51	0.04
UP	167.96	16.19	0.00	2.02	0.00	2.40	188.57	183.20	184.11	0.91	372.67	0.38
Uttarakhand	0.00	16.94	0.00	0.56	0.00	0.00	17.50	24.76	25.69	0.93	43.19	0.33
HP	0.00	20.05	0.00	0.00	0.00	7.23	27.28	-4.16	-0.48	-3.68	26.80	0.04
J & K	0.00	25.56	0.00	0.00	0.00	0.00	25.56	17.24	11.54	-5.70	37.10	8.86
Chandigarh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.07	5.69	-0.38	5.69	0.00
Total	338.80	97.66	17.87	11.80	20.85	13.19	500.17	655.49	655.40	-0.09	1155.57	9.85

* 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	STOA/PX transaction	Demand Met	Shortage	UI	STOA/PX transaction			
Punjab	9398	0	-14	2220	8396	0	2221	10301	15	0	
Haryana	7595	159	126	2124	6216	0	-63	2200	8078	21	0
Rajasthan	7109	0	0	-648	6596	0	300	-436	7723	23	0
Delhi	4787	0	-118	593	4343	0	-15	781	5556	24	0
UP	17543	580	124	1958	16744	0	-1	2277	17974	24	0
Uttarakhand	1999	35	235	444	1672	0	61	243	1999	20	35
HP	1139	0	172	-1901	901	0	118	-1891	1326	15	0
J&K	1726	432	-251	-716	1254	221	-184	-1101	1881	21	470
Chandigarh	244	0	-20	-45	203	0	-26	0	313	15	0
Total	51541	1205	254	4028	46325	221	66	4294	53000	23	368

* STOA 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	1220	1344	1231	29.41	1225	28.60	0.81
	Rihand I STPS (2*500)	1000	923	1013	977	22.05	919	21.74	0.31
	Rihand II STPS (2*500)	1000	943	1003	1003	22.29	929	22.25	0.04
	Rihand III STPS (2*500)	1000	943	1003	907	20.93	872	21.16	-0.23
	Dadri I STPS (4*210)	840	639	441	468	9.96	415	10.11	-0.15
	Dadri II STPS (2*490)	980	929	971	605	17.19	716	16.75	0.44
	Unchahar I TPS (2*210)	420	382	347	261	6.60	275	7.18	-0.58
	Unchahar II TPS (2*210)	420	191	198	111	3.16	131	3.49	-0.34
	Unchahar III TPS (1*210)	210	191	203	117	3.21	134	3.46	-0.25
	Unchahar IV TPS(1*500)	500	0	0	0	0.00	0	0.00	0.00
	ISTPP (Jhajhar) (3*500)	1500	1421	0	0	7.90	329	7.90	0.00
	Dadri GPS (4*130.19+2*154.51)	830	0	112	111	2.12	88	2.35	-0.23
	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	24	0	0.06	2	0.26	-0.20
	Dadri Solar(5)	5	1	0	0	0.00	0	0.02	-0.02
	Unchahar Solar(10)	10	1	0	0	0.00	0	0.03	-0.03
	Singrauli Solar(15)	15	1	0	0	0.00	0	0.03	-0.03
	KHEP(4*200)	800	872	864	866	20.81	867	20.93	-0.12
	Sub Total (A)	12612	8656	7523	6657	166	6903	166	-0.58
B. NPC	NAPS (2*220)	440	374	414	422	9.13	380	8.98	0.15
	RAPS- B (2*220)	440	354	398	397	8.54	356	8.50	0.04
	RAPS- C (2*220)	440	420	450	452	9.68	403	9.78	-0.10
	Sub Total (B)	1320	1148	1262	1271	27.35	1139	27.26	0.09
C. NHPC	Chamera I HPS (3*180)	540	534	540	541	12.93	539	12.80	0.13
	Chamera II HPS (3*100)	300	297	301	302	7.20	300	7.12	0.08
	Chamera III HPS (3*77)	231	229	235	232	5.63	235	5.50	0.13
	Bairasul HPS(3*60)	180	59	0	122	1.50	62	1.51	-0.01
	Salaj-HPS (6*115)	690	682	701	695	16.70	696	16.37	0.33
	Tanakpur-HPS (3*31.4)	94	28	19	63	0.71	29	0.67	0.04
	Uri-I HPS (4*120)	480	474	474	474	11.40	475	11.38	0.02
	Uri-II HPS (4*60)	240	237	244	235	5.71	238	5.69	0.02
	Dhauliganga-HPS (4*70)	280	278	289	291	6.89	287	6.64	0.25
	Dulhasti-HPS (3*130)	390	288	272	362	6.96	290	6.91	0.05
	Sewa-II HPS (3*40)	120	120	129	85	0.94	99	0.90	0.04
	Parbati 3 (4*130)	520	212	506	248	5.10	212	5.06	0.04
	Kishanganga(3*110)	330	125	152	134	3.18	133	3.01	0.17
	Sub Total (C)	4395	3564	3862	3784	85	3535	84	1.28
D.SJVNL	NJPC (6*250)	1500	1605	1584	1627	38.60	1608	38.52	0.08
	Rampur HEP (6*68.67)	412	442	442	436	10.76	448	10.61	0.15
	Sub Total (D)	1912	2047	2026	2063	49.36	2057	49.13	0.23
E. THDC	Tehri HPS (4*250)	1000	570	595	180	5.07	211	5.00	0.07
	Koteswar HPS (4*100)	400	100	103	101	2.41	101	2.40	0.01
	Sub Total (E)	1400	670	698	281	7.48	312	7.40	0.08
F. BBMB	Bhakra HPS (2*108+3*126+5*157)	1379	651	1030	482	15.84	660	15.61	0.23
	Dehar HPS (6*165)	990	592	825	485	14.30	596	14.20	0.10
	Pong HPS (6*68)	396	147	204	150	3.61	150	3.54	0.07
	Sub Total (F)	2765	1390	2059	1117	33.75	1406	33.35	0.40
G. IPP(s)/JV(s)	Allain DuhanganHPS(IPP) (2*96)	192	0	213	136	3.69	154	4.03	-0.34
	Karcham Wangtoo HPS(IPP) (4*250)	1000	0	0	0	26.56	1107	26.08	0.48
	Malana Sta-II HPS (2*50)	100	0	112	113	2.62	109	2.34	0.28
	Shree Cement TPS (2*150)	300	0	239	139	3.45	144	4.48	-1.03
	Budhil HPS(IPP) (2*35)	70	0	76	76	1.73	72	1.65	0.08
	Sani HPS (IPP) (2*50)	100	0	0	0	0.00	0	2.61	0.00
	Sub Total (G)	1762	0	640	464	38.05	1585	38.58	-0.53
H. Total Regional Entities (A-G)		26167	17475	18070	15636	406.50	16937	405.54	0.96

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	3.80	158	
	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	174	173	3.88	162	
	Goindwal(GVK) (2*270)	540	225	246	5.73	239	
	Rajpura (2*700)	1400	1060	660	15.30	638	
	Talwandi Saboo (3*660)	1980	1140	924	34.47	1436	
	Thermal (Total)	6560	2759	2163	63.16	2632	
	Total Hydro	1000	718	725	17.51	730	
	Wind Power	0	0	0	0.00	0	
	Biomass	303	0	0	1.75	73	
	Solar	859	0	0	4.49	187	
	Renewable(Total)	1162	0	0	6.24	260	
	Total Punjab	8722	3477	2888	86.91	3621	
	Haryana	Panipat TPS (2*210+2*250)	920	202	199	4.93	206
DCRTPP (Yamuna nagar) (2*300)		600	475	470	11.21	467	
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	434	373	10.35	431	
Thermal (Total)		4497	1111	1042	26.49	1104	
Total Hydro		62	23	29	0.98	41	
Wind Power		0	0	0	0.00	0	
Biomass		106	0	0	0.63	26	
Solar		50	0	0	0.13	5	
Renewable(Total)		156	0	0	0.76	32	
Total Haryana		4715	1134	1071	28.23	1176	
Rajasthan		kota TPS (2*110+2*195+3*210)	1240	81	81	1.91	80
	suratgarh TPS (6*250)	1500	224	181	4.40	184	
	Chabra TPS (4*250)	1000	919	839	20.20	842	
	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	130	131	3.17	132	
	RAPS A (NPC) (1*100+1*200)	300	0	0	0.00	0	
	Barsingsar (NLC) (2*125)	250	101	99	2.28	95	
	Giral LTPS (2*125)	250	0	0	0.00	0	
	Rajwest LTPS (IPP) (8*135)	1080	853	560	15.44	643	
	VS LIGNITE LTPS (IPP) (1*135)	135	0	0	0.00	0	
	Kalisindh Thermal(2*600)	1200	479	0	8.31	346	
	Kawai(Adani) (2*660)	1320	1183	856	22.00	917	
	Thermal (Total)	9536	3970	2747	77.73	3239	
	Total Hydro	550	0	38	0.44	18	
	Wind power	4292	685	1377	20.85	869	
	Biomass	102	8	8	0.20	8	
	Solar	1995	16	0	4.60	192	
	Renewable/Others (Total)	6389	709	1385	25.65	1069	
	Total Rajasthan	16475	4679	4170	103.81	4326	
	UP	Anpara TPS (3*210+2*500)	1630	1304	1299	29.50	1229
		Obra TPS (2*50+2*94+5*200)	1194	506	516	9.91	413
		Paricha TPS (2*110+2*220+2*250)	1160	808	803	14.91	621
Panki TPS (2*105)		210	0	0	0.00	0	
Harduaganj TPS (1*60+1*105+2*250)		665	509	504	9.19	383	
Tanda TPS (NTPC) (4*110)		440	263	292	5.05	210	
Roza TPS (IPP) (4*300)		1200	683	448	12.18	508	
Anpara-C (IPP) (2*600)		1200	1092	1096	22.43	935	
Bajaj Energy Pvt.Ltd(IPP) TPS (10*45)		450	223	223	5.47	228	
Anpara-D(2*500)		1000	946	952	25.16	1049	
Lalitpur TPS(3*660)		1980	1583	746	23.83	993	
Bara(3*660)		1980	489	484	10.34	431	
Thermal (Total)		13109	8406	7363	167.96	6998	
Vishnuparyag HPS (IPP)(4*110)		440	0	395	6.77	282	
Alakananda(4*82.5)		330	348	339	8.19	341	
Other Hydro		527	123	48	1.23	51	
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	2.02	84		
Renewable(Total)	498	0	0	2.02	84		
Total UP	16264	8977	8245	188.57	7857		
Uttarakhand	Other Hydro	1250	658	773	16.94	706	
	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	0.56	23	
	Small Hydro (< 25 MW)	180	0	0	0.00	0	
	Renewable(Total)	407	0	0	0.56	23	
	Total Uttarakhand	2107	658	773	17.50	729	
Delhi	Rajghat TPS (2*67.5)	135	0	0	0.00	0	
	Delhi Gas Turbine (6x30 + 3x34)	282	102	68	2.14	89	
	Pragati Gas Turbine (2x104+ 1x122)	330	263	259	6.43	268	
	Rithala GPS (3*36)	95	0	0	0.00	0	
	Bawana GPS (4*216+2*253)	1370	270	249	6.13	255	
	Badarpur TPS (NTPC) (3*95+2*210)	705	307	299	6.63	276	
	Thermal (Total)	2917	941	876	21.33	889	
	Wind Power	0	0	0	0.00	0	
	Biomass	16	29	40	0.99	41	
	Solar	2	0	0	0.00	0	
	Renewable(Total)	18	29	40	0.99	41	
Total Delhi	2935	970	916	22.32	930		

HP	Baspa HPS (IPP) (3*100)	300	331	331	7.60	317	
	Malana HPS (IPP) (2*43)	86	96	95	2.28	95	
	Other Hydro (>25MW)	372	449	406	10.17	424	
	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	323	329	7.23	301	
	Renewable(Total)	486	323	329	7.23	301	
	Total HP	1244	1199	1161	27.28	1137	
	J & K	Baglihar HPS (IPP) (3*150+3*150)	900	881	881	21.15	881
		Other Hydro/IPP(Including 98 MW Small Hydro)	308	191	191	4.41	184
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	1072	1072	25.56	1065	
Total State Control Area Generation		53860	22166	20296	500.17	20841	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]		14919	11919.66	272.52	11355		
Total Regional Availability(Gross)		80027	55155	47124	1179.19	49133	

IV. Total Hydro Generation:

Regional Entities Hydro	12564	9834	8360	230.83	9546
State Control Area Hydro	7468	4141	4580	97.66	4394
Total Regional Hydro	20032	13975	12940	328.50	13940

V. Total Renewable Generation:

Regional Entities Renewable	30	0	0	0.00	0
State Control Area Renewable	9214	1061	1754	43.44	1810
Total Regional Renewable	9244	1061	1754	43.44	1810

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)	0	-250	0	250	0.00	5.02	-5.02
765 KV Gwalior-Agra (D/C)	2572	2130	2648	0	51.99	0.00	51.99
400 KV Zerdha-Kankroli	143	-29	238	49	1.90	0.00	1.90
400 KV Zerdha-Bhinmal	130	-36	275	73	1.81	0.00	1.81
220 KV Auraiya-Malanpur	61	33	88	0	1.07	0.00	1.07
220 KV Badod-Kota/Morak	141	133	194	0	2.37	0.00	2.37
Mundra-Mohindergarhi(HVDC Bipole)	1200	800	1203	0	22.92	0.00	22.92
400 KV RAPPC-Sujalpur	332	184	414	0	6.02	0.00	6.02
400 KV Vindhychal-Rihand	952	858	0	964	0.00	21.03	-21.03
765 KV Phagt-Gwalior (D/C)	1108	1159	1427	0	29.94	0.00	29.94
+/- 800 KV HVDC Champa-Kurushetra	2500	800	2000	0	24.74	0	24.74
765KV Orai-Jabalpur	1330	1144	1387	0	26.39	0	26.39
765KV Orai-Satna	1705	1475	1721	0	39.24	0	39.24
765KV Orai-Gwalior	362	343	0	362	0.00	8	-7.82
Sub Total WR	12536	8745			208.40	33.87	174.52
400 kV Sasaram - Varanasi	-110	-83	110	0	2.90	0.00	2.90
400 kV Sasaram - Allahabad	35	53	90	0	1.53	0.00	1.53
400 KV MZP- GKP (D/C)	560	712	835	0	16.24	0.00	16.24
400 KV Patna-Balia(D/C) X 2	737	773	951	0	18.40	0.00	18.40
400 KV B Sharif-Balia (D/C)	272	393	471	0	8.99	0.00	8.99
765 KV Gaya-Balia	378	382	408	0	8.14	0.00	8.14
765 KV Gaya-Varanasi (D/C)	-382	-472	-654	0	11.39	0.00	-11.39
220 KV Pusaui-Sahupuri	152	132	152	0	3.20	0.00	3.20
132 KV Knasa-Sahupuri	0	0	0	0	0.48	0.00	0.48
132 KV Son Ngr-Rihand	0	0	0	0	0.00	0.35	-0.35
132 KV Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
765 KV Sasaram - Fatehpur	-129	-6	132	129	0.57	0.00	0.57
400 KV Mothari -GKP (D/C)	-273	-130	0	285	0.00	4.12	-4.12
400 kV B Sharif - Varanasi (D/C)	-57	-207	369	0	5.22	0.00	5.22
+/- 800 KV HVDC Alipurduar-Agra	600	300	600	0	10.93	0.00	10.93
Sub Total ER	1783	1847			87.98	4.46	83.51
+/- 800 KV HVDC Biswanath Chariali-Agra	600	600	600	0.00	14.49	0.00	14.49
Sub Total NER	600	600			14.49	0.00	14.49
Total IR Exch	14919	11192			310.86	38.34	272.52

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
46.19	3.71	49.90	34.56	59.08	-5.98	2.32	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
74.77	194.75	269.52	98.00	174.52	272.52	23.23	-20.23	3.00

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	-17	-19	0	-25	0	0	0.46

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	0.00	12.80	62.20	76.40	8.90	2.30	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)	
50.18	17.05	49.72	19.19	49.98	0.050	0.066	0.00	0.00	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	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	466.94	221.60	490.51	748.75	1002.73	566.34
Pong	426.72	384.05	394.16	111.75	406.28	379.44	819.23	295.06
Tehri	829.79	740.04	778.00	297.05	787.55	419.46	671.52	142.00
Koteswar	612.50	598.50	610.39	4.95	609.84	4.44	142.00	159.18
Chamera-I	760.00	748.75	753.75	0.00	0.00	0.00	382.90	351.23
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	507.60	5.95	521.29	10.67	346.85	282.33

* 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	2221	0	0	2220	0	0	53.29	0.00	53.29
Delhi	1079	-297	0	946	-354	0	24.43	-5.69	18.74
Haryana	2060	140	0	2121	3	0	44.46	1.74	46.20
HP	-1635	-256	0	-1739	-162	0	-37.48	-5.05	-42.53
J&K	-1150	49	0	-1151	435	0	-27.61	9.30	-18.31
CHD	0	0	0	0	-45	0	0.00	-0.25	-0.25
Rajasthan	-37	-399	0	-37	-610	0	-1.06	-8.76	-9.82
UP	2272	5	0	1918	39	0	47.61	0.46	48.07
Uttarakhand	-121	364	0	-255	699	0	-3.70	11.90	8.20
Total	4688	-394	0	4024	5	0	99.94	3.65	103.59

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

State	Bilateral (MW)		IEX (MW)		PXIL (MW)	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Punjab	2221	2213	0	0	0	0
Delhi	1246	855	0	-745	0	0
Haryana	2252	1432	141	-373	0	0
HP	-1431	-1942	113	-311	0	0
J&K	-1150	-1152	593	30	0	0
CHD	0	0	34	-50	0	0
Rajasthan	-37	-201	59	-1440	0	0
UP	2283	1849	39	0	0	0
Uttarakhand	-121	-255	728	327	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	0	10
Rajasthan	1	18
Delhi	3	24
UP	0	9
Uttarakhand	2	24
HP	2	24
J & K	4	39
Chandigarh	2	18

XIII. System Constraints:

XIV. Grid Disturbance / Any Other Significant Event:

XV. Weather Conditions For 23.07.2018 :

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 : 23.07.2018

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER