

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(भारत सरकार का उद्यम)

उत्तर क्षेत्रीय भार प्रेषण केंद्र

CIN: U40105DL2009GO118682

Power Supply Position in Northern Region for 28.05.2018

Date of Reporting : 29.05.2018



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
53441	1000	54441	49.90	52423	788	53210	50.04	1249.43	25.72

* 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	99.97	10.87	0.00	4.16	0.00	2.66	117.65	72.46	71.04	-1.42	188.70	0.00
Haryana	71.55	0.42	0.00	0.16	0.00	0.95	73.07	92.28	94.47	2.19	167.54	2.36
Rajasthan	123.22	0.00	4.13	8.59	6.41	4.50	146.84	77.63	84.41	6.78	231.25	9.23
Delhi	6.80	0.00	23.12	0.00	0.00	0.00	29.93	94.38	95.22	0.84	125.14	0.01
UP	204.22	11.20	0.00	3.60	0.00	12.00	231.02	193.99	192.35	-1.64	423.37	2.19
Uttarakhand	0.00	14.56	6.50	0.67	0.00	0.00	21.73	18.77	20.78	2.01	42.52	2.19
HP	0.00	11.86	0.00	0.00	0.00	3.85	15.71	7.38	10.96	3.58	26.66	0.64
J & K	0.00	18.94	0.00	0.00	0.00	0.00	18.94	24.01	19.03	-4.98	37.98	9.10
Chandigarh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.76	6.27	0.51	6.27	0.00
Total	505.75	67.86	33.75	17.17	6.41	23.96	654.90	586.66	594.52	7.86	1249.43	25.72

* 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	7105	0	-205	-382	7446	0	-168	-80	8485	15	0
Haryana	7887	8	326	280	6422	0	-42	520	7887	20	8
Rajasthan	9226	524	412	-83	9612	20	396	-17	10810	9	10
Delhi	5008	0	-55	309	5493	0	165	353	6149	24	0
UP	19137	0	-74	2482	18640	440	130	3063	19284	21	0
Uttarakhand	1894	35	3	151	1719	0	156	187	2002	21	35
HP	1185	0	70	-1074	1003	0	195	-666	1386	10	0
J&K	1733	433	-356	-348	1857	328	-6	29	1907	22	477
Chandigarh	267	0	-22	-20	231	0	36	25	323	15	0
Total	53441	1000	100	1315	52423	788	863	3413	54761	24	482

* 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	1640	1809	1817	40.18	1674	39.36	0.82
	Rihand I STPS (2*500)	1000	923	1016	979	22.03	918	22.14	-0.11
	Rihand II STPS (2*500)	1000	471	498	505	11.40	475	11.31	0.09
	Rihand III STPS (2*500)	1000	943	1004	1004	22.76	948	22.61	0.15
	Dadri I STPS (4*210)	840	688	590	790	14.62	609	15.40	-0.78
	Dadri II STPS (2*490)	980	929	886	963	21.71	904	22.13	-0.42
	Unchahar I TPS (2*210)	420	382	365	416	8.89	370	9.16	-0.27
	Unchahar II TPS (2*210)	420	382	374	420	9.06	378	9.15	-0.09
	Unchahar III TPS (1*210)	210	191	198	207	4.48	186	4.58	-0.11
	Unchahar IV TPS(1*500)	500	0	0	0	0.00	0	0.00	0.00
	ISTPP (Jhajjar) (3*500)	1500	709	824	647	16.62	693	16.87	-0.25
	Dadri GPS (4*130.19+2*154.51)	830	0	243	282	6.06	252	6.60	-0.54
	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	0.05	0.00
	Singrauli Solar(15)	15	2	0	0	0.07	3	0.05	0.02
	KHEP(4*200)	800	872	853	0	6.98	291	6.60	0.38
	Sub Total (A)	12612	8135	8660	8030	185	7706	186	-1.09
B. NPC	NAPS (2*220)	440	240	324	211	4.82	201	5.76	-0.94
	RAPS- B (2*220)	440	356	392	405	8.53	355	8.54	-0.01
	RAPS- C (2*220)	440	410	454	454	9.72	405	9.78	-0.06
	Sub Total (B)	1320	1006	1170	1070	23.07	961	24.08	-1.01
C. NHPC	Chamera I HPS (3*180)	540	534	549	397	7.50	312	7.20	0.30
	Chamera II HPS (3*100)	300	296	298	270	5.42	226	5.28	0.14
	Chamera III HPS (3*77)	231	228	231	155	3.84	160	3.69	0.15
	Bairasul HPS(3*60)	180	60	120	60	1.47	61	1.26	0.21
	Salaj-HPS (6*115)	690	478	556	675	12.43	518	11.48	0.95
	Tanakpur-HPS (3*31.4)	94	35	33	42	0.99	41	0.85	0.14
	Uri-I HPS (4*120)	480	475	483	483	11.62	484	11.40	0.22
	Uri-II HPS (4*60)	240	209	183	242	5.03	210	5.01	0.02
	Dhauliganga-HPS (4*70)	280	277	289	73	2.96	123	2.89	0.07
	Dulhasti-HPS (3*130)	390	387	396	407	9.51	396	9.28	0.23
	Sewa-II HPS (3*40)	120	119	118	0	0.50	21	0.50	0.00
	Parbati 3 (4*130)	520	61	387	0	1.46	61	1.46	0.00
	Kishanganga(3*110)	330	0	185	203	4.09	170	4.35	-0.26
	Sub Total (C)	4395	3158	3828	3007	67	2784	65	2.16
D.SJVNL	NJPC (6*250)	1500	1497	1506	503	18.77	782	18.50	0.27
	Rampur HEP (6*68.67)	412	412	404	141	5.30	221	5.15	0.15
	Sub Total (D)	1912	1910	1910	644	24.07	1003	23.65	0.42
E. THDC	Tehri HPS (4*250)	1000	524	524	0	3.95	165	3.92	0.03
	Koteswar HPS (4*100)	400	86	200	71	2.11	88	2.07	0.04
	Sub Total (E)	1400	610	724	71	6.06	252	5.99	0.07
F. BBMB	Bhakra HPS (2*108+3*126+5*157)	1379	599	936	441	14.55	606	14.38	0.16
	Dehar HPS (6*165)	990	401	825	330	9.80	408	9.63	0.17
	Pong HPS (6*68)	386	58	150	0	1.40	59	1.40	0.00
	Sub Total (F)	2765	1059	1911	771	25.75	1073	25.41	0.34
G. IPP(s)/JV(s)	Allain DuhanganHPS(IPP) (2*96)	192	0	70	65	1.91	80	2.07	-0.16
	Karcham Wangtoo HPS(IPP) (4*250)	1000	0	1014	0	10.20	425	10.02	0.18
	Malana Sta-II HPS (2*50)	100	0	100	65	0.95	40	0.89	0.06
	Shree Cement TPS (2*150)	300	0	254	258	6.14	256	6.17	-0.03
	Budhil HPS(IPP) (2*35)	70	0	35	35	0.86	36	1.37	-0.51
	Sani HPS (IPP) (2*50)	100	0				1.23		
	Sub Total (G)	1762	0	1473	424	20.05	835	20.52	-0.47
H. Total Regional Entities (A-G)		26167	15878	19675	14016	350.76	14615	350.33	0.43

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	750	720	16.50	687
	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	778	794	17.83	743
	Goidwal(GVK) (2*270)	540	290	290	7.90	329
	Rajpura (2*700)	1400	860	1320	30.17	1257
	Talwandi Saboo (3*660)	1980	924	1350	27.57	1149
	Thermal (Total)	6560	3602	4474	99.97	4165
	Total Hydro	1000	410	404	10.87	453
	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	4012	4878	117.65	4902
	Haryana	Panipat TPS (2*210+2*250)	920	626	750	17.67
DCRTPP (Yamuna nagar) (2*300)		600	539	499	12.40	517
Faridabad GPS (NTPC)(2*137.75+1*156)		432	0	0	0.00	0
RGTPP (khedan) (IPP) (2*600)		1200	1120	845	24.86	1036
Magnum Diesel (IPP)		25	0	0	0.00	0
Jhajjar(CLP) (2*660)		1320	773	617	16.62	692
Thermal (Total)		4497	3058	2711	71.55	2981
Total Hydro		62	5	19	0.42	18
Wind Power		0	0	0	0.00	0
Biomass		106	0	0	0.95	40
Solar		50	0	0	0.16	7
Renewable(Total)		156	0	0	1.11	46
Total Haryana		4715	3063	2730	73.07	3045
Rajasthan		kota TPS (2*110+2*195+3*210)	1240	1141	1149	27.52
	suratgarh TPS (6*250)	1500	1326	1338	32.30	1346
	Chabra TPS (4*250)	1000	682	693	16.44	685
	Chabra TPS (1*660)	660	0	0	0.00	0
	Dholpur GPS (3*110)	330	0	15	0.21	9
	Ramgarh GPS(1*37.5 + 1*35.5 +2*37.5 +1*110 +1*50)	271	134	176	3.92	163
	RAPS A (NPC) (1*100+1*200)	300	168	172	3.95	164
	Barsingsar (NLC) (2*125)	250	221	223	5.07	211
	Giral LTPS (2*125)	250	0	0	0.00	0
	Rajwest LTPS (IPP) (8*135)	1080	727	740	17.82	742
	VS LIGNITE LTPS (IPP) (1*135)	135	0	0	0.00	0
	Kalisindh Thermal(2*600)	1200	544	560	13.39	558
	Kawai(Adani) (2*660)	1320	442	450	10.67	445
	Thermal (Total)	9536	5385	5516	131.29	5470
	Total Hydro	550	0	0	0.00	0
	Wind power	4292	73	833	6.41	267
	Biomass	102	23	23	0.56	23
	Solar	1995	39	0	8.59	358
	Renewable/Others (Total)	6389	135	856	15.55	648
	Total Rajasthan	16475	5520	6372	146.84	6118
UP	Anpara TPS (3*210+2*500)	1630	1317	1296	32.80	1367
	Obra TPS (2*50+2*94+5*200)	1194	490	466	10.60	442
	Paricha TPS (2*110+2*220+2*250)	1160	891	83	15.80	658
	Panki TPS (2*105)	210	0	0	0.00	0
	Harduaganj TPS (1*60+1*105+2*250)	665	516	546	12.80	533
	Tanda TPS (NTPC) (4*110)	440	375	392	8.62	359
	Roza TPS (IPP) (4*300)	1200	837	871	20.40	850
	Anpara-C (IPP) (2*600)	1200	1105	1078	26.10	1088
	Bajaj Energy Pvt.Ltd(IPP) TPS (10*45)	450	224	401	7.80	325
	Anpara-D(2*500)	1000	905	906	21.10	879
	Lalitpur TPS(3*660)	1980	1241	1226	21.60	900
	Bara(3*660)	1980	1110	1107	26.60	1108
	Thermal (Total)	13109	9011	8372	204.22	8509
	Vishnupurayag HPS (IPP)(4*110)	440	375	296	7.20	300
	Alakananada(4*82.5)	330	83	82	2.40	100
	Other Hydro	527	56	84	1.60	67
	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	3.60	150	
Renewable(Total)	498	0	0	3.60	150	
Total UP	16264	10025	9334	231.02	9626	
Uttarakhand	Other Hydro	1250	691	593	14.56	607
	Total Gas	450	266	278	6.50	271
	Wind Power	0	0	0	0.00	0
	Biomass	127	0	0	0.00	0
	Solar	100	0	0	0.67	28
	Small Hydro (< 25 MW)	180	0	0	0.00	0
	Renewable(Total)	407	0	0	0.67	28
Total Uttarakhand	2107	957	871	21.73	906	
Delhi	Rajghat TPS (2*67.5)	135	0	0	0.00	0
	Delhi Gas Turbine (6x30 + 3x34)	282	74	3	0.80	33
	Pragati Gas Turbine (2x104+ 1x122)	330	266	294	6.83	285
	Rithala GPS (3*36)	95	0	0	0.00	0
	Bawana GPS (4*216+2*253)	1370	580	651	15.49	646
	Badarpur TPS (NTPC) (3*95+2*210)	705	290	313	6.80	284
	Thermal (Total)	2917	1210	1261	29.93	1247
	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	1210	1261	29.93	1247	

HP	Baspa HPS (IPP) (3*100)	300	118	247	4.17	174	
	Malana HPS (IPP) (2*43)	86	42	37	0.87	36	
	Other Hydro (>25MW)	372	331	298	6.82	284	
	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	182	142	3.85	160	
	Renewable(Total)	486	182	142	3.85	160	
	Total HP	1244	673	723	15.71	654	
	J & K	Baglihar HPS (IPP) (3*150+3*150)	900	678	678	15.46	644
		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	837	810	18.94	789	
Total State Control Area Generation		53860	26297	26979	654.90	27288	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]		7774	9619	271.32	11305		
Total Regional Availability(Gross)		80027	53746	50615	1276.98	53208	

IV. Total Hydro Generation:

Regional Entities Hydro	12564	10410	4623	143.59	5947
State Control Area Hydro	7468	3396	3289	67.86	3287
Total Regional Hydro	20032	13806	7912	211.45	9234

V. Total Renewable Generation:

Regional Entities Renewable	30	0	0	0.14	6
State Control Area Renewable	9214	317	998	31.59	1316
Total Regional Renewable	9244	317	998	31.74	1322

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	250	250	4.47	1.22	3.25
765 KV Gwalior-Agra (D/C)	1187	1216	1337	0	26.42	0.00	26.42
400 KV Zerda-Kankroli	-214	-198	0	284	0.00	5.16	-5.16
400 KV Zerda-Bhinmal	-90	-142	75	236	0.00	2.73	-2.73
220 KV Auraiya-Malanpur	28	55	55	0	0.53	0.00	0.53
220 KV Badod-Kota/Morak	73	-24	73	84	0.00	0.38	-0.38
Mundra-Mohindergarh(HVDC Bipole)	1298	1300	1305	0	31.49	0.00	31.49
400 KV RAPPC-Sujalpur	186	144	288	0	3.89	0.00	3.89
400 KV Vindhychal-Rihand	-955	-954	0	970	0.00	22.99	-22.99
765 KV Phagt-Gwalior (D/C)	1046	1284	1525	0	32.08	0.00	32.08
+/- 800 KV HVDC Champa-Kurushetra	2300	2300	2300	0	53.60	0	53.60
765KV Orai-Jabalpur	0	0	0	0	20.85	0	20.85
765KV Orai-Satna	0	0	0	0	41.55	0	41.55
765KV Orai-Gwalior	0	0	0	0	0.00	4	-4.36
Sub Total WR	4609	5231			214.88	36.85	178.04
400 kV Sasaram - Varanasi	3	-55	10	62	0.00	1.36	-1.36
400 kV Sasaram - Allahabad	-102	-49	0	113	0.00	1.58	-1.58
400 KV MZP- GKP (D/C)	330	480	598	0	12.57	0.00	12.57
400 KV Patna-Balia(D/C) X 2	476	1069	1183	0	20.60	0.00	20.60
400 KV B Sharif-Balia (D/C)	425	437	495	0	10.74	0.00	10.74
765 KV Gaya-Balia	473	586	586	0	12.51	0.00	12.51
765 KV Gaya-Varanasi (D/C)	197	308	321	0	5.65	0.00	5.65
220 KV Pusaali-Sahupuri	196	180	208	0	3.40	0.00	3.40
132 KV Knasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
132 KV Son Ngr-Rihand	0	0	0	0	0.00	0.67	-0.67
132 KV Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
765 KV Sasaram - Fatehpur	61	30	163	64	1.28	0.00	1.28
400 KV Mothari -GKP (D/C)	98	274	274	0	4.34	0.00	4.34
400 kV B Sharif - Varanasi (D/C)	8	128	188	32	2.51	0.00	2.51
+/- 800 KV HVDC Alipurduar-Agra	500	500	500	0	11.65	0.00	11.65
Sub Total ER	2665	3888			85.25	3.61	81.64
+/- 800 KV HVDC Biswanath Chariali-Agra	500	500	500	0.00	11.65	0.00	11.65
Sub Total NER	500	500			11.65	0.00	11.65
Total IR Exch	7774	9619			311.78	40.46	271.32

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
59.99	1.43	61.42	26.97	5.13	-0.07	16.49	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
86.89	167.84	254.73	93.29	178.04	271.32	6.40	10.20	16.59

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	-12	0	28	0	0	-0.48

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	3.70	25.20	78.70	71.40	3.20	0.40	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	18.03	49.70	14.45	49.94	0.083	0.069	50.05	49.76	28.60

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	0:00	399	8:34	0.0	0.0	0.0	0.0	0.0
Gorakhpur	400	416	6:04	398	19:50	0.0	0.0	0.0	0.0	0.0
Bareilly(PG)400kV	400	415	6:07	394	14:40	0.0	0.0	0.0	0.0	0.0
Kanpur	400	416	6:00	398	14:39	0.0	0.0	0.0	0.0	0.0
Dadri	400	412	6:01	396	14:38	0.0	0.0	0.0	0.0	0.0
Ballabgarh	400	414	6:02	393	14:40	0.0	0.0	0.0	0.0	0.0
Bawana	400	411	6:01	394	14:41	0.0	0.0	0.0	0.0	0.0
Bassi	400	411	18:02	395	9:12	0.0	0.0	0.0	0.0	0.0
Hissar	400	408	3:20	393	14:44	0.0	0.0	0.0	0.0	0.0
Moga	400	407	3:23	393	14:37	0.0	0.0	0.0	0.0	0.0
Abdullapur	400	415	3:22	399	14:43	0.0	0.0	0.0	0.0	0.0
Nalagarh	400	417	4:03	399	14:30	0.0	0.0	0.0	0.0	0.0
Kishenpur	400	408	6:50	399	14:22	0.0	0.0	0.0	0.0	0.0
Wagooora	400	402	2:01	394	3:08	0.0	0.0	0.0	0.0	0.0
Amritsar	400	410	3:24	396	14:44	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	18:01	393	18:36	0.0	0.0	0.0	0.0	0.0
Rishikesh	400	413	6:32	388	14:43	0.0	1.7	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	789	6:01	755	14:39	0.0	0.0	0.0	0.0	0.0
Balia	765	791	6:06	766	21:41	0.0	0.0	0.0	0.0	0.0
Moga	765	783	6:04	752	14:45	0.0	0.0	0.0	0.0	0.0
Agra	765	786	6:00	750	14:45	0.0	0.0	0.0	0.0	0.0
Bhiwani	765	795	6:02	763	14:37	0.0	0.0	0.0	0.0	0.0
Unnao	765	774	6:06	742	14:58	0.0	0.0	0.0	0.0	0.0
Lucknow	765	798	6:06	766	14:40	0.0	0.0	0.0	0.0	0.0
Meerut	765	797	6:05	729	2:57	0.0	0.0	0.0	0.0	0.0
Jhatikara	765	786	6:04	753	14:43	0.0	0.0	0.0	0.0	0.0
Bareilly 765 kV	765	801	6:06	764	14:39	0.0	0.0	0.0	0.0	0.0
Anta	765	786	3:30	767	14:38	0.0	0.0	0.0	0.0	0.0
Phagi	765	789	3:23	767	9:12	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	455.26	83.48	471.90	298.24	397.34	550.96
Pong	426.72	384.05	392.17	84.61	394.47	116.59	28.32	118.76
Tehri	829.79	740.04	743.80	18.04	744.95	23.75	130.93	143.00
Koteswar	612.50	598.50	610.81	4.95	609.32	4.20	143.00	138.90
Chamera-I	760.00	748.75	753.40	0.00	0.00	0.00	154.95	203.33
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	498.98	2.92	513.63	6.80	181.27	137.83

* 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	-201	0	121	-503	0	2.90	-5.94	-3.04
Delhi	646	-293	0	495	-186	0	14.91	-2.97	11.94
Haryana	493	27	0	256	25	0	4.80	3.63	8.43
HP	-509	-157	0	-680	-394	0	-10.76	-3.75	-14.51
J&K	-757	786	0	-757	409	0	-18.16	12.31	-5.85
CHD	0	25	0	0	-20	0	0.00	0.74	0.74
Rajasthan	-8	-9	0	-8	-75	0	-0.20	9.73	9.53
UP	1791	1272	0	1388	1095	0	41.51	10.19	51.70
Uttarakhand	64	123	0	59	92	0	1.27	2.38	3.65
Total	1841	1572	0	873	441	0	36.27	26.32	62.59

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

State	Bilateral (MW)		IEX (MW)		PXIL (MW)	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Punjab	121	121	201	-201	0	0
Delhi	741	495	484	-862	0	0
Haryana	569	-105	622	24	0	0
HP	-118	-857	235	-468	0	0
J&K	-757	-757	786	310	0	0
CHD	0	0	89	-25	0	0
Rajasthan	-8	-8	1754	-93	0	0
UP	1873	1359	1488	-593	0	0
Uttarakhand	64	34	226	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	2.08%

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

WR	4.51%
ER	1.39%
Simultaneous	33.33%

(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	3	28
Rajasthan	6	67
Delhi	4	30
UP	1	13
Uttarakhand	4	29
HP	6	69
J & K	3	24
Chandigarh	6	61

XIII. System Constraints:

XIV. Grid Disturbance / Any Other Significant Event:

XV. Weather Conditions For 28.05.2018 :

XVI. Synchronisation of new generating units :

XVII. Synchronisation of new 220 / 400 / 765 KV lines and energising of bus / substation :

1. 220 kV Kanpur (PG) to Sikandra(UP) line first time charged at 17.56 Hrs along with 220 KV Bus-I(18.40 hrs).

2. 400 kV Orai – Banda line first time charged at 18.07 Hrs

3. 220 kV Raibareilly – Bachravan first time charged at 18.23 Hrs .

3. 220 KV Raibareilly – Bachravan first time charged at 18.23 Hrs .

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 : 28.05.2018

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER