

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(भारत सरकार का उद्यम)

उत्तर क्षेत्रीय भार प्रेषण केंद्र

CIN: U40105DL2009GG0186822

Power Supply Position in Northern Region for 29.04.2018
Date of Reporting : 30.04.2018



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
44756	524	45280	49.97	46504	551	47054	50.00	1036.38	11.03

* Half hourly two 15 minutes block-one block 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	62.78	6.85	0.00	3.24	0.00	2.90	75.77	63.17	62.67	-0.50	138.44	0.00
Haryana	58.86	0.38	7.72	0.12	0.00	1.25	68.33	69.78	71.92	2.14	140.25	1.00
Rajasthan	98.49	0.00	3.69	8.47	25.40	0.52	136.56	66.07	68.64	2.57	205.20	0.00
Delhi	3.25	0.00	19.54	0.00	0.00	0.00	22.79	75.70	75.02	-0.68	97.81	0.04
UP	199.25	7.50	0.00	3.90	0.00	20.40	231.05	111.63	115.96	4.33	347.00	0.00
Uttarakhand	0.00	11.67	6.78	0.62	0.00	0.00	19.07	18.56	18.74	0.18	37.80	0.00
HP	0.00	7.90	0.00	0.00	0.00	4.41	12.30	11.14	11.06	-0.08	23.37	0.00
J & K	0.00	11.21	0.00	0.00	0.00	0.00	11.21	24.56	31.11	6.55	42.32	9.99
Chandigarh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.48	4.19	-0.29	4.19	0.00
Total	422.63	45.51	37.73	16.35	25.40	29.47	577.08	445.09	459.30	14.21	1036.38	11.03

* 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	5487	0	32	-207	5713	0	22	-409	6673	22	0
Haryana	6339	0	-60	174	7263	18	153	951	7263	3	18
Rajasthan	7653	0	131	-8	8740	0	186	-4	9638	8	0
Delhi	4090	0	-60	-174	4387	0	110	-260	4796	1	0
UP	16079	0	253	105	16278	270	252	546	16495	1	450
Uttarakhand	1774	0	74	181	1562	0	55	398	1774	20	0
HP	1039	0	-143	-872	908	0	-63	-299	1240	10	0
J&K	2097	524	506	-321	1492	263	196	-351	2185	21	546
Chandigarh	199	0	-24	-20	161	0	-14	0	206	23	0
Total	44756	524	709	-1142	46504	551	897	571	48010	1	924

* STOAPX figures are at sellers boundary & PX figures are at regional boundary. † figures may not be at simultaneous hour.

III. Regional Entities :

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
A. NTPC								
Singrauli STPS (5*200+2*500)	2000	1168	1292	1310	28.84	1202	28.02	0.82
Rihand II STPS (2*500)	1000	923	992	1014	22.08	920	21.80	0.28
Rihand III STPS (2*500)	1000	896	1018	1018	22.93	955	21.39	1.54
Rihand IV STPS (2*500)	1000	943	988	988	22.07	920	22.09	-0.02
Dadri I STPS (4*210)	840	769	474	665	11.31	471	11.14	0.17
Dadri II STPS (2*490)	980	929	695	935	16.94	706	16.10	0.84
Unchahar I TPS (2*210)	420	369	319	383	6.65	277	7.25	-0.60
Unchahar II TPS (2*210)	420	382	313	407	7.12	297	7.41	-0.29
Unchahar III TPS (1*210)	210	0	0	0	0.00	0	0.00	0.00
Unchahar IV TPS (1*500)	500	0	0	0	0.00	0	0.00	0.00
ISTPP (Jhajjar) (3*500)	1500	948	618	987	19.20	800	19.64	-0.44
Dadri GPS (4*130.19+2*154.51)	830	0	112	158	3.33	139	3.45	-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	0.05	0.00
Singrauli Solar(15)	15	3	0	0	0.06	3	0.05	0.01
KHEP(4*200)	800	792	865	0	4.51	188	4.15	0.36
Sub Total (A)	12612	8122	7686	7865	165	6879	163	2.55
B. NPC								
NAPS (2*220)	440	186	192	210	4.37	182	4.46	-0.09
RAPS- B (2*220)	440	172	207	206	4.24	177	4.13	0.11
RAPS- C (2*220)	440	410	459	460	9.75	406	9.84	-0.09
Sub Total (B)	1320	768	858	876	18.35	765	18.43	-0.08
C. NHPC								
Chamera I HPS (3*180)	540	534	543	541	7.81	325	7.60	0.21
Chamera II HPS (3*100)	300	296	299	290	5.00	208	4.94	0.06
Chamera III HPS (3*77)	231	228	231	156	3.48	145	3.35	0.13
Bairasul HPS(3*60)	180	79	121	103	1.95	81	1.85	0.10
Salat-HPS (6*115)	690	451	500	475	11.65	485	10.81	0.84
Tanakpur-HPS (3*31.4)	94	27	32	33	0.75	31	0.64	0.11
Uri-I HPS (4*120)	480	474	484	484	11.76	490	11.38	0.38
Uri-II HPS (4*60)	240	234	243	244	5.71	238	5.63	0.08
Dhauliganga-HPS (4*70)	280	277	285	71	2.16	90	2.10	0.06
Dulhaasi-HPS (3*130)	390	385	406	400	9.45	394	9.25	0.20
Sewa-II HPS (3*40)	120	119	114	0	1.69	70	1.70	-0.01
Parbati 3 (4*130)	520	29	391	0	0.74	31	0.71	0.03
Sub Total (C)	4065	3133	3648	2706	62	2589	60	2.18
D.SJVNL								
NJPC (6*250)	1500	1497	1502	492	14.94	623	15.00	-0.06
Rampur HEP (6*88.67)	412	412	410	143	4.28	178	4.18	0.10
Sub Total (D)	1912	1910	1912	635	19.22	801	19.18	0.04
E. THDC								
Tehri HPS (4*250)	1000	444	453	0	3.63	151	3.60	0.03
Koteswar HPS (4*100)	400	74	101	71	1.77	74	1.77	0.00
Sub Total (E)	1400	518	554	71	5.40	225	5.37	0.03
F. BBMB								
Bhakra HPS (2*108+3*126+5*157)	1379	505	998	388	12.12	505	12.12	0.00
Dehar HPS (6*165)	990	305	660	330	7.56	315	7.32	0.24
Pong HPS (6*66)	396	39	156	0	0.90	38	0.93	-0.03
Sub Total (F)	2765	849	1814	718	20.59	858	20.37	0.22
G. IPP(s)/JV(s)								
Allain Duhangan HPS(IPP) (2*96)	192	0	95	72	1.67	70	1.63	0.04
Karcham Wangtoo HPS(IPP) (4*250)	1000	0	1000	150	7.88	329	7.76	0.12
Malana Stg-II HPS (2*50)	100	0	0	40	0.73	30	0.70	0.03
Shree Cement TPS (2*150)	300	0	193	260	4.70	196	4.86	-0.16
Budhil HPS(IPP) (2*35)	70	0	64	0	0.69	29	0.96	-0.27
Saini HPS (IPP) (2*50)	100	0	0	0	0.00	0	0.74	0.00
Sub Total (G)	1762	0	1353	533	15.67	653	15.91	-0.24
H. Total Regional Entities (A-G)	25837	15300	17825	13404	306.49	12770	301.78	4.71

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	210	3.61	151	
	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	190	252	4.79	199	
	Goindwal(GVK) (2*270)	540	145	246	4.55	190	
	Rajpura (2*700)	1400	660	1320	24.77	1032	
	Talwandi Saboo (3*660)	1980	924	1150	25.08	1045	
	Thermal (Total)	6560	2079	3178	62.78	2616	
	Total Hydro	1000	263	96	6.85	286	
	Wind Power	0	0	0	0.00	0	
	Biomass	303	0	0	2.90	121	
	Solar	859	0	0	3.24	135	
	Renewable(Total)	1162	0	0	6.13	256	
	Total Punjab	8722	2342	3274	75.77	3157	
	Haryana	Panipat TPS (2*210+2*250)	920	757	837	18.28	762
		DCRTPP (Yamuna nagar) (2*300)	600	268	291	5.97	249
Faridabad GPS (NTPC)(2*137.75+1*156)		432	353	352	7.72	322	
RGTPP (Khadan) (IPP) (2*600)		1200	750	1090	20.90	871	
Magnum Diesel (IPP)		25	0	0	0.00	0	
Jhajjar(CLP) (2*660)		1320	578	584	13.71	571	
Thermal (Total)		4497	2706	3154	66.58	2774	
Total Hydro		62	19	24	0.38	16	
Wind Power		0	0	0	0.00	0	
Biomass		106	0	0	1.25	52	
Solar		50	0	0	0.12	5	
Renewable(Total)		156	0	0	1.37	57	
Total Haryana		4715	2725	3178	68.33	2847	
Rajasthan		kota TPS (2*110+2*195+3*210)	1240	911	902	23.66	986
		suratgarh TPS (6*250)	1500	845	868	22.59	941
	Chabra TPS (4*250)	1000	638	684	15.81	659	
	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	152	154	3.69	154	
	RAPS A (NPC) (1*100+1*200)	300	0	0	0.00	0	
	Barsingsar (NLC) (2*125)	250	107	110	2.52	105	
	Giral LTPS (2*125)	250	0	0	0.00	0	
	Rajwest LTPS (IPP) (8*135)	1080	735	855	20.04	835	
	VS LIGNITE LTPS (IPP) (1*135)	135	0	0	0.00	0	
	Kalisindh Thermal(2*600)	1200	410	179	9.74	406	
	Kawai(Adani) (2*660)	1320	0	615	4.12	172	
	Thermal (Total)	9536	3798	4367	102.18	4257	
	Total Hydro	550	0	0	0.00	0	
	Wind power	4292	621	1430	25.40	1058	
	Biomass	102	22	22	0.52	22	
	Solar	1995	28	0	8.47	353	
	Renewable/Others (Total)	6389	671	1452	34.39	1433	
	Total Rajasthan	16475	4469	5819	136.56	5690	
UP	Anpara TPS (3*210+2*500)	1630	1323	1320	30.70	1279	
	Obra TPS (2*50+2*94+5*200)	1194	501	472	11.60	483	
	Paricha TPS (2*110+2*220+2*250)	1160	538	596	13.20	550	
	Panki TPS (2*105)	210	0	0	0.00	0	
	Harduaganj TPS (1*60+1*105+2*250)	665	312	507	8.80	367	
	Tanda TPS (NTPC) (4*110)	440	244	390	6.25	260	
	Roza TPS (IPP) (4*300)	1200	673	1047	16.90	704	
	Anpara-C (IPP) (2*600)	1200	1101	1084	25.60	1067	
	Bajaj Energy Pvt.Ltd(IPP) TPS (10*45)	450	221	400	6.30	263	
	Anpara-D(2*500)	1000	900	908	21.60	900	
	Lalitpur TPS(3*660)	1980	1716	1859	32.90	1371	
	Bara(3*660)	1980	1158	1061	25.40	1058	
	Thermal (Total)	13109	8687	9644	199.25	8302	
	Vishnupurayag HPS (IPP)(4*110)	440	237	207	4.70	196	
	Alakananda(4*82.5)	330	82	82	1.80	75	
	Other Hydro	527	68	74	1.00	42	
	Cogeneration	981	850	850	20.40	850	
	Wind Power	0	0	0	0.00	0	
Biomass	26	0	0	0.00	0		
Solar	102	0	0	3.90	163		
Renewable(Total)	128	0	0	3.90	163		
Total UP	15515	9924	10857	231.05	9627		
Uttarakhand	Other Hydro	1250	645	426	11.67	486	
	Total Gas	450	282	287	6.78	282	
	Wind Power	0	0	0	0.00	0	
	Biomass	127	0	0	0.00	0	
	Solar	100	0	0	0.62	26	
	Small Hydro (< 25 MW)	180	0	0	0.00	0	
	Renewable(Total)	407	0	0	0.62	26	
	Total Uttarakhand	2107	927	713	19.07	794	
Delhi	Rajghat TPS (2*67.5)	135	0	0	0.00	0	
	Delhi Gas Turbine (6x30 + 3x34)	282	86	72	1.91	80	
	Pragati Gas Turbine (2x104+ 1x122)	330	263	263	6.37	266	
	Rithala GPS (3*36)	95	0	0	0.00	0	
	Bawana GPS (4*216+2*253)	1370	446	519	11.26	469	
	Badarpur TPS (NTPC) (3*95+2*210)	705	147	144	3.25	135	
	Thermal (Total)	2917	942	998	22.79	950	
	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	942	998	22.79	950		

HP	Baspa HPS (IPP) (3*100)	300	62	103	2.73	114
	Malana HPS (IPP) (2*43)	86	32	0	0.58	24
	Other Hydro (>25MW)	372	254	232	4.58	191
	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	211	164	4.41	184
	Renewable(Total)	486	211	164	4.41	184
	Total HP	1244	560	500	12.30	513
	J & K	Baglihar HPS (IPP) (3*150+3*150)	900	146	146	7.01
Other Hydro/IPP(including 98 MW Small Hydro)	308	182	160	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	328	306	11	467	
Total State Control Area Generation		53111	22217	25644	577.08	24045
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			7374	9796	163.58	6816
Total Regional Availability(Gross)		78948	47416	48844	1047.14	43631

IV. Total Hydro Generation:

Regional Entities Hydro	12234	9888	4392	122.84	5090
State Control Area Hydro	7468	2484	2002	45.51	2388
Total Regional Hydro	19702	12372	6394	168.35	7478

V. Total Renewable Generation:

Regional Entities Renewable	30	0	0	0.13	5
State Control Area Renewable	8844	882	1616	50.81	2117
Total Regional Renewable	8874	882	1616	50.94	2122

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)	50	-250	250	250	0.86	1.80	-0.94
765 KV Gwalior-Agra (D/C)	1015	1408	1437	0	29.55	0.00	29.55
400 KV Zerda-Kankroli	-307	-342	0	444	0.00	8.29	-8.29
400 KV Zerda-Bhinmal	-261	-304	0	448	0.00	7.01	-7.01
220 KV Auraiya-Malanpur	-126	-160	0	165	0.00	3.11	-3.11
220 KV Badod-Kota/Morak	17	31	127	0	0.91	0.00	0.91
Mundra-Mohindergarhi(HVDC Bipole)	298	299	503	0	7.44	0.00	7.44
400 KV RAPPC-Sujalpur	125	111	176	0	1.97	0.00	1.97
400 KV Vindhychal-Rihand	932	942	0	952	0.00	22.61	-22.61
765 KV Phagt-Gwalior (D/C)	1071	1424	1569	0	31.20	0.00	31.20
+/- 800 KV HVDC Champa-Kurushetra	1500	2000	2000	0	36.54	0	36.54
765KV Orai-Jabalpur	126	490	650	0	6.47	0	6.47
765KV Orai-Satna	1574	1744	1806	0	39.79	0	39.79
765KV Orai-Gwalior	-248	-282	0	356	0.00	7	-7.03
Sub Total WR	5766	7111			154.72	49.84	104.88
400 kV Sasaram - Varanasi	131	94	131	0	2.52	0.00	2.52
400 kV Sasaram - Allahabad	10	44	56	0	0.92	0.00	0.92
400 KV MZP- GKP (D/C)	138	256	412	0	5.33	0.00	5.33
400 KV Patna-Balia(D/C) X 2	212	577	733	0	11.65	0.00	11.65
400 KV B'Sharif-Balia (D/C)	33	187	244	0	3.94	0.00	3.94
765 KV Gaya-Balia	176	304	330	0	6.47	0.00	6.47
765 KV Gaya-Varanasi (D/C)	79	351	408	0	5.84	0.00	5.84
220 KV Pusaui-Sahupuri	182	168	182	0	3.59	0.00	3.59
132 KV Knasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
132 KV Son Ngr-Rihand	12	23	0	24	0.00	0.44	-0.44
132 KV Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
765 KV Sasaram - Fatehpur	-224	-103	35	287	0.00	2.06	-2.06
400 KV Mothari -GKP (D/C)	154	208	256	0	4.27	0.00	4.27
400 kV B'Sharif - Varanasi (D/C)	105	-24	-103	172	0.11	0.00	0.11
+/- 800 KV HVDC Alipurduar-Agra	0	0	0	0	0.00	0.00	0.00
Sub Total ER	1008	2085			44.64	2.50	42.14
+/- 800 KV HVDC Biswanath-Charialli-Agra	600	600	1000	0.00	16.56	0.00	16.56
Sub Total NER	600	600			16.56	0.00	16.56
Total IR Exch	7374	9796			215.92	52.35	163.58

2.65

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
53.47	0.41	53.88	-7.04	-8.18	2.34	-2.44	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
48.77	110.95	159.72	58.70	104.88	163.58	9.93	-6.07	3.86

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	-23	-24	0	29	0	1	-0.54

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	1.23	55.62	88.53	9.59	1.11	0.06	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)	
50.21	18.02	49.85	15.49	49.99	0.021	0.045	50.10	49.92	11.47

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	406	18:00	400	0:03	0.0	0.0	0.0	0.0	0.0
Gorakhpur	400	415	6:01	105	23:50	0.7	0.7	0.0	0.0	0.7
Bareilly(PG)400kV	400	417	6:02	399	0:16	0.0	0.0	0.0	0.0	0.0
Kanpur	400	416	6:03	402	0:09	0.0	0.0	0.0	0.0	0.0
Dadri	400	419	5:59	404	0:13	0.0	0.0	0.0	0.0	0.0
Ballabgarh	400	416	5:04	399	0:15	0.0	0.0	0.0	0.0	0.0
Bawana	400	417	5:05	401	0:18	0.0	0.0	0.0	0.0	0.0
Bassi	400	418	18:02	391	0:08	0.0	0.0	0.0	0.0	0.0
Hissar	400	413	13:33	398	0:08	0.0	0.0	0.0	0.0	0.0
Moga	400	415	13:31	404	0:05	0.0	0.0	0.0	0.0	0.0
Abdullapur	400	419	8:04	405	0:10	0.0	0.0	0.0	0.0	0.0
Nalagarh	400	421	5:02	412	0:08	0.0	0.0	4.5	0.0	4.5
Kishenpur	400	416	13:01	408	20:03	0.0	0.0	0.0	0.0	0.0
Wagoora	400	405	17:42	390	20:05	0.0	0.0	0.0	0.0	0.0
Amritsar	400	421	13:26	409	0:09	0.0	0.0	1.5	0.0	1.5
Kashipur	400	402	0:00	402	0:00	0.0	0.0	0.0	0.0	0.0
Hamirpur	400	417	13:34	408	0:00	0.0	0.0	0.0	0.0	0.0
Rishikesh	400	412	7:02	394	19:09	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	781	6:01	750	19:29	0.0	0.0	0.0	0.0	0.0
Balia	765	785	6:01	756	0:17	0.0	0.0	0.0	0.0	0.0
Moga	765	793	13:33	769	0:16	0.0	0.0	0.0	0.0	0.0
Agra	765	788	6:01	758	0:12	0.0	0.0	0.0	0.0	0.0
Bhiwani	765	799	5:06	772	0:06	0.0	0.0	0.0	0.0	0.0
Unnao	765	765	6:02	739	0:15	0.0	4.5	0.0	0.0	0.0
Lucknow	765	789	7:04	758	19:30	0.0	0.0	0.0	0.0	0.0
Meerut	765	803	5:26	770	0:15	0.0	0.0	2.8	0.0	2.8
Jhatikara	765	796	6:01	762	23:28	0.0	0.0	0.0	0.0	0.0
Bareilly 765 kV	765	802	7:03	767	0:17	0.0	0.0	1.6	0.0	1.6
Anta	765	794	13:02	768	0:05	0.0	0.0	0.0	0.0	0.0
Phagi	765	797	17:45	766	0:05	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	468.67	248.16	470.85	282.71	395.08	413.71
Pong	426.72	384.05	394.28	116.59	396.60	151.67	40.29	72.83
Tehri	829.79	740.04	751.60	60.53	752.95	69.71	77.26	122.00
Koteswar	612.50	598.50	610.16	4.60	610.88	5.01	122.00	117.60
Chamera-I	760.00	748.75	755.52	0.00	0.00	0.00	171.13	211.59
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	498.64	2.46	516.17	7.40	192.30	88.77

*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	-409	0	0	-207	0	0	-5.98	0.00	-5.98
Delhi	-113	-147	0	22	-197	0	0.59	-3.35	-2.76
Haryana	262	689	0	164	10	0	-0.90	3.52	2.62
HP	-179	-120	0	-220	-652	0	-3.55	-5.27	-8.82
J&K	-270	-81	0	-270	-50	0	-6.49	0.11	-6.38
CHD	0	0	0	0	-20	0	0.00	0.44	0.44
Rajasthan	-8	4	0	-8	0	0	-0.20	3.17	2.97
UP	546	0	0	105	0	0	4.03	0.00	4.03
Uttarakhand	43	355	0	77	103	0	1.17	5.35	6.52
Total	-129	700	0	-337	-806	0	-11.33	3.97	-7.36

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

State	Bilateral (MW)		IEX (MW)		PXIL (MW)	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Punjab	409	207	0	0	0	0
Delhi	192	13	467	0	0	0
Haryana	273	164	689	2	0	0
HP	221	85	687	59	0	0
J&K	270	270	454	0	0	0
CHD	0	0	69	0	0	0
Rajasthan	8	8	825	0	0	0
UP	558	47	0	0	0	0
Uttarakhand	78	16	406	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	1	13
Haryana	1	20
Rajasthan	3	24
Delhi	3	24
UP	1	13
Uttarakhand	7	50
HP	5	61
J & K	1	21
Chandigarh	4	36

XIII. System Constraints:**XIV. Grid Disturbance / Any Other Significant Event:****XV. Weather Conditions For 29.04.2018 :****XVI. Synchronisation of new generating units :****XVII. Synchronisation of new 220 / 400 / 765 KV lines and energising of bus / substation :**

1.400/220kV, 500 MVA ICT- I first time charged on no load from 400kV side at 17.55 hrs on 29.04.2018 at 400/220kV Muradabad(UP) .

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 : 29.04.2018

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER