

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(भारत सरकार का उद्यम)

उत्तरी क्षेत्रीय भार प्रेषण केंद्र

CIN: U40105DL2009GOI188682

Power Supply Position in Northern Region for 18.04.2017

Date of Reporting : 19.04.2017



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
45689	466	46155	50.00	43650	247	43897	49.96	1007.32	9.11

* 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	Renewable/others \$	Total					
Punjab	39.85	3.34	0.19	43.37	78.69	79.15	0.47	122.53	0.00
Haryana	32.07	0.73	0.00	32.80	100.47	99.77	-0.70	132.57	0.00
Rajasthan	99.01	0.11	19.58	118.69	73.57	74.75	1.17	193.43	0.00
Delhi	17.79	0.00	0.00	17.79	86.62	85.02	-1.60	102.81	0.04
UP	183.74	10.54	0.00	194.28	153.47	154.20	0.73	348.48	0.00
Uttarakhand	16.77	0.00	0.00	23.77	15.80	14.54	-1.26	38.32	0.00
HP	17.21	5.24	5.24	17.21	8.45	8.21	-0.24	25.41	0.00
J & K	19.58	0.00	0.00	19.58	19.19	18.84	-0.35	38.42	9.06
Chandigarh	0.00	0.00	0.00	0.00	5.25	5.34	0.09	5.34	0.00
Total	372.46	68.27	25.01	467.50	541.50	539.82	-1.68	1007.32	9.11

* Shortage furnished by the respective constituent's 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	5673	0	-15	248	5413	0	-229	148	6061	22	0
Haryana	6871	0	7	352	6355	0	-148	410	7099	21	25
Rajasthan	8116	0	-64	353	8031	0	-25	454	8928	24	0
Delhi	4376	0	-99	-95	4289	0	15	-273	4980	17	0
UP	15533	0	-605	2161	15647	0	-62	1585	16615	21	0
Uttarakhand	1901	0	-97	214	1504	0	-67	10	1901	20	0
HP	1106	0	75	-1172	831	0	131	-676	1237	11	0
J&K	1865	466	300	-513	1402	247	-63	-474	1865	20	466
Chandigarh	248	0	-7	-15	178	0	-9	0	276	15	0
Total	45689	466	-506	1531	43650	247	-457	1184	47266	21	486

* STOA 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 Sentoout(MW)	Schedule Net MU	UI	
								Diversity is 1.04	UI (DG:(+ve), UG: (-ve))
A. NTPC									
Singrauli STPS (5*200+2*500)	2000	1512	1583	1774	36.18	1508	35.89	0.29	0.29
Rihand I STPS (2*500)	1000	932	997	1009	22.12	922	21.83	0.29	0.29
Rihand II STPS (2*500)	1000	474	507	516	11.40	475	11.05	0.36	0.36
Rihand III STPS (2*500)	1000	969	1005	1023	22.72	947	22.62	0.11	0.11
Dadri I STPS (4*210)	840	815	834	594	14.83	618	15.47	-0.64	-0.64
Dadri II STPS (2*490)	980	980	1006	937	19.82	826	20.50	-0.68	-0.68
Unchahar I TPS (2*210)	420	360	380	282	7.37	307	7.59	-0.21	-0.21
Unchahar II TPS (2*210)	420	405	426	307	7.81	325	8.28	-0.47	-0.47
Unchahar III TPS (1*210)	210	203	218	155	3.99	166	4.12	-0.13	-0.13
Unchahar IV TPS(1*660)	660	0	0	0	0.00	0	0.00	0.00	0.00
ISTPP (Jhajjar) (3*500)	1500	1440	989	832	17.67	736	18.60	-0.93	-0.93
Dadri GPS (4*130.19+2*154.51)	830	770	172	157	3.81	159	4.36	-0.55	-0.55
Anta GPS (3*88.71+1*153.2)	419	382	0	0	0.00	0	0.00	0.00	0.00
Auraiya GPS (4*111.19+2*109.30)	663	639	0	90	0.41	17	0.39	0.02	0.02
Dadri Solar(5)	5	1	0	0	0.02	1	0.02	0.00	0.00
Unchahar Solar(10)	10	2	0	0	0.04	2	0.05	0.00	0.00
Singrauli Solar(15)	15	2	0	0	0.05	2	0.05	0.01	0.01
KHEP(4*200)	800	872	872	645	10.53	439	10.00	0.53	0.53
Sub Total (A)	12772	10756	8989	8321	179	7449	181	-2.01	-2.01
B. NPC									
NAPS (2*220)	440	394	404	425	9.15	381	9.46	-0.31	-0.31
RAPS- B (2*220)	440	362	386	409	8.64	360	8.69	-0.05	-0.05
RAPS- C (2*220)	440	210	231	235	4.88	203	5.04	-0.16	-0.16
Sub Total (B)	1320	966	1021	1069	22.67	945	23.18	-0.51	-0.51
C. NHPC									
Chamera I HPS (3*180)	540	535	550	555	13.27	553	12.83	0.44	0.44
Chamera II HPS (3*100)	300	301	310	308	7.37	307	7.22	0.15	0.15
Chamera III HPS (3*77)	231	231	238	236	5.59	233	5.55	0.04	0.04
Bairasuli HPS(3*60)	180	179	184	182	4.35	181	4.29	0.06	0.06
Salal-HPS (6*115)	690	598	457	673	15.39	641	14.34	1.05	1.05
Tanakpur-HPS (3*31.4)	94	31	43	44	0.92	38	0.73	0.18	0.18
Uri-I HPS (4*120)	480	464	480	478	11.42	476	11.14	0.28	0.28
Uri-II HPS (4*60)	240	237	238	240	5.72	238	5.69	0.03	0.03
Dhauliganga-HPS (4*70)	280	280	290	70	3.28	137	3.12	0.17	0.17
Dulhasti-HPS (3*130)	390	387	400	398	9.38	391	9.30	0.08	0.08
Sewa-II HPS (3*40)	120	126	132	132	3.14	131	3.02	0.12	0.12
Parbati 3 (4*130)	520	260	261	132	2.78	116	2.73	0.05	0.05
Sub Total (C)	4065	3629	3584	3447	83	3442	80	2.64	2.64
D.SJVNL									
NJPC (6*250)	1500	1605	1610	1086	31.79	1325	30.75	1.04	1.04
Rampur HEP (6*68.67)	412	442	442	296	8.93	372	8.57	0.36	0.36
Sub Total (D)	1912	2047	2052	1382	40.72	1697	39.32	1.40	1.40
E. THDC									
Tehri HPS (4*250)	1000	468	316	0	5.34	223	5.30	0.04	0.04

	Goindwal(GVK) (2*270)	540	0	0	0.00	0
	Rajpura (2*700)	1400	420	380	9.51	396
	Talwandi Saboo (3*660)	1980	0	1000	5.09	212
	Thermal (Total)	6560	1854	2531	39.85	1660
	Total Hydro	1000	227	97	3.34	139
	Wind Power	0	0	0	0.00	0
	Biomass	288	0	0	0.11	5
	Solar	560	0	0	0.07	3
	Renewable(Total)	848	0	0	0.19	8
	Total Punjab	8408	2081	2628	43.37	1807
Haryana	Panipat TPS (2*210+2*250)	920	0	0	0.00	0
	DCRTPP (Yamuna nagar) (2*300)	600	542	546	11.40	475
	Faridabad GPS (NTPC)(2*137.75+1*156)	432	0	0	0.00	0
	RGTPP (khedar) (IPP) (2*600)	1200	533	561	10.43	435
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP) (2*660)	1320	572	379	10.24	427
	Thermal (Total)	4497	1647	1486	32.07	1336
	Total Hydro	62	19	30	0.73	30
	Wind Power	0	0	0	0.00	0
	Biomass	40	0	0	0.00	0
	Solar	0	0	0	0.00	0
	Renewable(Total)	40	0	0	0.00	0
	Total Haryana	4599	1666	1516	32.80	1367
Rajasthan	kota TPS (2*110+2*195+3*210)	1240	182	155	3.99	166
	suratgarh TPS (6*250)	1500	194	179	4.63	193
	Chabra TPS (4*250)	1000	951	861	22.67	945
	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	205	201	5.26	219
	RAPS A (NPC) (1*100+1*200)	300	190	190	4.24	177
	Barsingsar (NLC) (2*125)	250	100	114	2.49	104
	Giral LTPS (2*125)	250	0	0	0.00	0
	Rajwest LTPS (IPP) (8*135)	1080	885	632	18.64	777
	VS LIGNITE LTPS (IPP) (1*135)	135	0	0	0.00	0
	Kalisindh Thermal(2*600)	1200	1075	839	23.04	960
	Kawai(Adani) (2*660)	1320	617	474	14.06	586
	Thermal (Total)	9536	4399	3645	99.01	4125
	Total Hydro	550	20	21	0.11	4
	Wind power	4017	261	1304	15.79	658
	Biomass	99	26	26	0.62	26
	Solar	1295	1	0	3.16	132
	Renewable/Others (Total)	5411	288	1330	19.58	816
	Total Rajasthan	15497	4707	4996	118.69	4945
UP	Anpara TPS (3*210+2*500)	1630	937	901	21.91	913
	Obra TPS (2*50+2*94+5*200)	1194	671	419	12.41	517
	Paricha TPS (2*110+2*220+2*250)	1160	902	903	20.93	872
	Panki TPS (2*105)	210	0	0	0.00	0
	Harduaganj TPS (1*60+1*105+2*250)	665	450	427	10.08	420
	Tanda TPS (NTPC) (4*110)	440	289	290	6.69	279
	Roza TPS (IPP) (4*300)	1200	1116	1116	25.35	1056
	Anpara-C (IPP) (2*600)	1200	778	779	18.35	765
	Bajaj Energy Pvt.Ltd(IPP) TPS (10*45)	450	0	0	0.00	0
	Anpara-D(2*500)	1000	816	836	19.33	806
	Lalitpur TPS(3*660)	1980	609	1178	20.92	872
	Bara(2*660)	1320	580	574	13.38	557
	Thermal (Total)	12449	7148	7423	169.34	7056
	Vishnuparyag HPS (IPP)(4*110)	440	296	226	5.79	241
	Alaknanda(4*82.5)	330	84	84	2.96	123
	Other Hydro	527	173	50	1.80	75
	Cogeneration	981	600	600	14.40	600
	Wind Power	0	0	0	0.00	0
	Biomass	26	0	0	0.00	0
	Solar	102	0	0	0.00	0
Renewable(Total)	128	0	0	0.00	0	
Total UP	14855	8301	8383	194.28	8095	
Uttarakhand	Other Hydro	1250	716	733	16.77	699
	Total Gas	225	268	281	6.45	269
	Wind Power	0	0	0	0.00	0
	Biomass	127	0	0	0.00	0
	Solar	20	0	0	0.56	23
	Small Hydro (< 25 MW)	180	0	0	0.00	0
	Renewable(Total)	327	0	0	0.56	23
Total Uttarakhand	1802	984	1014	23.77	991	
Delhi	Rajghat TPS (2*67.5)	135	0	0	0.00	0
	Delhi Gas Turbine (6x30 + 3x34)	282	30	31	0.82	34
	Pragati Gas Turbine (2x104+ 1x122)	330	146	149	3.67	153
	Rithala GPS (3*36)	95	0	0	0.00	0
	Bawana GPS (4*216+2*253)	1370	249	250	6.09	254
	Badarpur TPS (NTPC) (3*95+2*210)	705	325	325	7.22	301
	Thermal (Total)	2917	750	755	17.79	741
	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	750	755	17.79	741	
HP	Baspa HPS (IPP) (3*100)	300	299	140	4.60	191
	Malana HPS (IPP) (2*43)	86	91	88	1.36	57
	Other Hydro (>25MW)	372	261	248	6.00	250
	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	243	229	5.24	219
	Renewable(Total)	486	243	229	5.24	219
	Total HP	1244	894	705	17.21	717
J & K	Baglihar HPS (IPP) (3*150+3*150)	900	736	739	17.74	739
	Other Hydro/IPP(including 98 MW Small Hydro)	308	94	66	1.84	77
	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	830	805	20	816
Total State Control Area Generation	50738	20213	20802	467.50	19479
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]		7360	8497.96	166.16	6923
Total Regional Availability(Gross)	76635	46601	45363	1016.32	42347

IV. Total Hydro Generation:

Regional Entities Hydro	12234	9708	7168	187.93	7831
State Control Area Hydro	7163	3527	3032	68.27	3137
Total Regional Hydro	19397	13236	10200	256.20	10967

V. Total Renewable Generation:

Regional Entities Renewable	30	0	0	0.12	5
State Control Area Renewable	7356	531	1559	25.57	1065
Total Regional Renewable	7386	531	1559	25.68	1070

VI(A). Inter Regional Exchange [Import (+ve)/Export (-ve)] [Linkwise]

Element	Peak(20:00 Hrs) MW	Off Peak(03:00 Hrs) MW	Maximum Interchange (MW)		Energy (MU)		Net Energy MU
			Import	Export	Import	Export	
Vindhychal(HVDC B/B)	-500	-300	0	500	0.00	9.26	-9.26
765 KV Gwalior-Agra (D/C)	2608	2610	2992	0	51.83	0.00	51.83
400 KV Zerda-Kankrol	-54	-179	0	231	0.00	3.61	-3.61
400 KV Zerda-Bhinmal	-25	-103	18	186	0.00	2.12	-2.12
220 KV Auraiya-Malanpur	-30	-32	0	51	0.00	0.54	-0.54
220 KV Badod-Kota/Morak	-883	30	105	37	0.00	0.41	-0.41
Mundra-Mohinderghar(HVDC Bipole)	2499	1997	2506	0	46.52	0.00	46.52
400 KV RAPP-C-Sujalpur	341	329	476	0	8.03	0.00	8.03
400 KV Vindhychal-Rihand	0	0	0	0	0.00	0.00	0.00
765 kV Phagi-Gwalior (D/C)	977	1047	1185	0	20.85	0.00	20.85
+/- 800 kV HVDC Champa-Kurushetra	1500	1500	1500	0	30.28	0	30.28
Sub Total WR	6433	6900			157.51	15.94	141.57
400 kV Sasaram - Varanasi	131	134	147	0	3.45	0.00	3.45
400 kV Sasaram - Allahabad	16	5	16	6	0.09	0.00	0.09
400 KV MZP- GKP (D/C)	9	165	312	144	0.90	0.00	0.90
400 KV Patna-Balia(D/C) X 2	645	759	760	0	15.50	0.00	15.50
400 KV B'Sharif-Balia (D/C)	18	146	148	0	2.06	0.00	2.06
765 KV Gaya-Balia	253	341	345	0	5.83	0.00	5.83
765 KV Gaya-Varanasi (D/C)	324	389	427	0	6.20	0.00	6.20
220 KV Pusaui-Sahupuri	-229	-221	0	238	0.00	4.76	-4.76
132 KV K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
132 KV Son Ngr-Rihand	-20	-24	0	40	0.00	0.60	-0.60
132 KV Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
765 KV Sasaram - Fatehpur	-276	-169	0	276	0.00	3.96	-3.96
400 KV Barh -GKP (D/C)	612	552	612	0	11.54	0.00	11.54
400 kV B'Sharif - Varanasi (D/C)	144	21	139	0	1.41	0.00	1.41
+/- 800 KV HVDC Alipurduar-Agra	0	0	0	0	0.00	0.00	0.00
Sub Total ER	1627	2098			46.98	9.32	37.66
+/- 800 KV HVDC BiswanathCharialli-Agra	-700	-500	0	700.00	0.00	13.06	-13.06
Sub Total NER	-700	-500			0.00	13.06	-13.06
Total IR Exch	7360	8498			204.49	38.33	166.16

VI(B). Inter Regional Schedule & Actual Exchanges [Import (+ve)/Export (-ve)] [Corridor wise]

ISGS/LT Schedule (MU)			Bilateral Schedule (MU)		Power Exchange Shdl (MU)		Wheeling (MU)	
ER	Bhutan	Total	Through ER	Through WR	Through ER	Through WR	Through ER	Through WR
47.74	0.55	48.29	0.09	4.52	-4.71	-1.88	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
43.68	141.36	185.04	24.59	141.57	166.16	-19.09	0.21	-18.88

VI(C). Inter National Exchange with Nepal [Import (+ve)/Export (-ve)] [Linkwise]

Element	Peak(20:00 Hrs) MW	Off Peak(03:00 Hrs) MW	Maximum Interchange (MW)		Energy (MU)		Net Energy MU
			Import	Export	Import	Export	
132 KV Tanakpur - Mahendarnagar	-27	-30	0	39	0	1	-0.68

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	0.17	0.96	10.90	71.06	80.45	7.75	1.20	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)		
50.19	18.01	49.66	19.15	49.97	0.050	50.06	49.85	19.55	

VIII(A). Voltage profile 400 kV

Station	Voltage Level (kV)	Maximum		Minimum		Voltage (in % of Time)				Voltage Deviat
		Voltage(KV)	Time	Voltage (KV)	Time	<380 kV	<390 kV	>420 kV	>430 kV	
Rihand	400	411	12:01	404	18:48	0.0	0.0	0.0	0.0	0.0
Gorakhpur	400	419	12:27	389	18:48	0.0	0.1	0.0	0.0	0.0
Bareilly(PG)400kV	400	419	5:07	392	20:45	0.0	0.0	0.0	0.0	0.0
Kanpur	400	418	13:02	396	20:46	0.0	0.0	0.0	0.0	0.0
Dadri	400	419	5:01	402	20:45	0.0	0.0	0.0	0.0	0.0
Ballabgarh	400	419	5:03	399	20:44	0.0	0.0	0.0	0.0	0.0
Bawana	400	418	13:04	398	20:43	0.0	0.0	0.0	0.0	0.0
Bassi	400	416	2:48	394	20:26	0.0	0.0	0.0	0.0	0.0
Hissar	400	417	13:00	395	20:44	0.0	0.0	0.0	0.0	0.0
Moga	400	421	13:01	401	20:41	0.0	0.0	0.6	0.0	0.6
Abdullapur	400	420	13:00	398	20:27	0.0	0.0	0.0	0.0	0.0
Nalagarh	400	418	13:08	403	19:20	0.0	0.0	0.0	0.0	0.0
Kishenpur	400	412	12:58	400	20:05	0.0	0.0	0.0	0.0	0.0
Wagoora	400	402	3:34	381	6:53	0.0	35.2	0.0	0.0	0.0
Amritsar	400	425	13:04	406	20:42	0.0	0.0	5.0	0.0	5.0
Kashipur	400	0	0:00	0	0:00	0.0	0.0	0.0	0.0	0.0
Hamirpur	400	405	0:00	405	0:00	0.0	0.0	0.0	0.0	0.0
Rishikesh	400	418	4:34	390	20:43	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
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Station	Voltage Level (kV)	Voltage(KV)	Time	Voltage (KV)	Time	<728 kV	<742 kV	>800 kV	>820 kV	% Deviat
Fatehpur	765	793	13:04	745	20:47	0.0	0.0	0.0	0.0	0.0
Balia	765	799	5:07	749	18:48	0.0	0.0	0.0	0.0	0.0
Moga	765	799	13:02	763	20:44	0.0	0.0	0.0	0.0	0.0
Agra	765	797	13:02	753	20:45	0.0	0.0	0.0	0.0	0.0
Bhiwani	765	793	6:06	772	19:26	0.0	0.0	0.0	0.0	0.0
Unnao	765	777	5:06	744	20:45	0.0	0.0	0.0	0.0	0.0
Lucknow	765	804	5:06	748	18:48	0.0	0.0	1.3	0.0	1.3
Meerut	765	808	13:04	760	20:45	0.0	0.0	6.0	0.0	6.0
Jhatikara	765	802	13:04	762	20:45	0.0	0.0	0.8	0.0	0.8
Bareilly 765 kV	765	808	5:06	751	18:47	0.0	0.0	4.2	0.0	4.2
Anta	765	794	13:06	768	20:44	0.0	0.0	0.0	0.0	0.0
Phagi	765	0	0:00	0	0:00	100.0	100.0	0.0	0.0	100.0

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	466.66	217.22	478.27	420.92	431.94	258.19
Pong	426.72	384.05	397.11	162.91	395.30	131.24	91.41	42.56
Tehri	829.79	740.04	756.30	93.27	745.30	25.49	130.59	173.00
Koteshwar	612.50	598.50	610.65	4.80	611.11	5.10	173.00	169.65
Chamera-I	760.00	748.75	754.86	0.00	0.00	0.00	402.31	360.09
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 Sagar	298.70	295.78	0.00	0.00	0.00	0.00	0.00	0.00
RSD	527.91	487.91	513.86	1.30	496.35	1.20	276.70	35.68

* 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	-50	199	0	-50	298	0	-1.21	1.27	0.07
Delhi	-275	2	0	-53	-42	0	-2.15	3.24	1.10
Haryana	132	278	0	132	220	0	0.74	3.77	4.51
HP	-66	-611	0	-96	-1076	0	-1.74	-15.20	-16.94
J&K	-147	-327	0	-147	-367	0	-3.52	-6.28	-9.79
CHD	0	0	0	0	-15	0	0.00	-0.02	-0.02
Rajasthan	25	429	0	25	328	0	0.61	7.85	8.46
UP	778	807	0	1062	1099	0	8.69	12.44	21.13
Uttarakhand	266	-256	0	136	77	0	5.73	-4.00	1.73
Total	663	521	0	1008	523	0	7.15	3.08	10.23

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

State	Bilateral (MW)		IEX (MW)		PXIL (MW)	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Punjab	-50	-50	497	-503	0	0
Delhi	91	-275	421	-84	0	0
Haryana	132	-70	297	-135	0	0
HP	-40	-137	-232	-1223	0	0
J&K	-147	-147	-126	-403	0	0
CHD	0	0	25	-30	0	0
Rajasthan	34	16	429	-429	0	0
UP	1062	36	1878	-68	0	0
Uttarakhand	266	136	142	-363	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	14
Rajasthan	4	49
Delhi	4	30
UP	0	10
Uttarakhand	1	16
HP	4	47
J & K	1	13
Chandigarh	6	72

XIII. System Constraints:

XIV. Grid Disturbance / Any Other Significant Event:

XV. Weather Conditions For 18.04.2017 :

XVI. Synchronisation of new generating units :

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

80MVAR New Bus Reactor first time charged at 18:23Hrs on 17.04.2017 at Mathura

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 : 18.04.2017

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER