

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(भारत सरकार का उद्योग)

उत्तरी क्षेत्रीय भार प्रेषण केंद्र

CIN: U40105DL2009GOI188682

Power Supply Position in Northern Region for 30.04.2017
Date of Reporting : 01.05.2017



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
43354	986	44340	50.07	40978	465	41443	49.95	946.89	11.81

* Half hourly (two 15 minutes block-one block each before and after the designated time) average frequency

UI (OD:(+ve), UD: (-ve))

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	26.94	15.45	0.31	42.70	84.36	81.53	-2.83	124.23	0.00
Haryana	28.86	0.52	0.00	29.38	91.51	90.20	-1.31	119.58	0.00
Rajasthan	99.17	0.26	9.18	108.60	73.48	77.52	4.04	186.12	2.74
Delhi	18.17	0.00	0.00	18.17	72.90	71.35	-1.55	89.52	0.02
UP	174.74	10.29	0.00	185.04	141.73	145.18	3.46	330.22	0.00
Uttarakhand		13.84	0.00	20.73	13.99	12.24	-1.75	32.98	0.00
HP		13.77	4.58	13.77	9.16	7.67	-1.49	21.43	0.00
J & K		18.57	0.00	18.57	19.53	19.93	0.41	38.50	9.06
Chandigarh			0.00	0.00	4.78	4.32	-0.46	4.32	0.00
Total	347.89	72.69	14.07	436.95	511.43	509.94	-1.49	946.89	11.81

* 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	5210	0	-81	477	5687	0	-213	1358	6025	6	0
Haryana	6033	0	-148	214	5569	0	-359	368	6799	24	0
Rajasthan	7755	0	151	361	7034	217	141	-245	8526	24	186
Delhi	3777	0	-126	-224	4104	0	208	-287	4431	1	0
UP	15864	500	62	2209	14789	0	-148	2108	16637	21	0
Uttarakhand	1665	0	103	-62	1419	0	-63	120	1665	20	0
HP	901	0	-2	-808	785	0	-60	-207	1084	10	0
J&K	1944	486	202	-328	1408	248	74	-463	1959	21	490
Chandigarh	205	0	-27	0	182	0	17	20	211	23	0
Total	43354	986	134	1839	40978	465	-403	2770	45356	24	489

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

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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	Net MU
A. NTPC									
Singrauli STPS (5*200+2*500)	2000	1640	1707	1793	35.25	1469	37.88		-2.63
Rihand I STPS (2*500)	1000	932	917	978	20.25	844	20.37		-0.12
Rihand II STPS (2*500)	1000	478	433	514	10.72	447	10.48		0.24
Rihand III STPS (2*500)	1000	962	953	1015	21.11	880	20.93		0.19
Dadri I STPS (4*210)	840	815	438	475	10.08	420	10.23		-0.15
Dadri II STPS (2*490)	980	928	636	707	15.74	656	16.30		-0.57
Unchahar I TPS (2*210)	420	350	273	314	6.18	257	6.24		-0.07
Unchahar II TPS (2*210)	420	400	293	313	6.50	271	7.07		-0.57
Unchahar III TPS (1*210)	210	200	150	153	3.23	135	3.48		-0.25
Unchahar IV TPS(1*660)	660		0	0	0.00	0	0.00		0.00
ISTPP (Jhajjihar) (3*500)	1500	1440	839	776	16.36	682	16.64		-0.28
Dadri GPS (4*130.19+2*154.51)	830	768	146	157	3.34	139	3.27		0.07
Anta GPS (3*88.71+1*153.2)	419	385	0	0	0.00	0	0.00		0.00
Auraiya GPS (4*111.19+2*109.30)	663	539	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	0.04	2	0.05		-0.01
Singrauli Solar(15)	15	3	0	0	0.06	3	0.07		-0.01
KHEP(4*200)	800	872	867	215	8.49	354	8.25		0.24
Sub Total (A)	12772	10714	7652	7410	157	6557	161		-3.91
B. NPC									
NAPS (2*220)	440	388	432	435	9.39	391	9.31		0.08
RAPS- B (2*220)	440	363	407	407	8.72	363	8.71		0.01
RAPS- C (2*220)	440	430	452	458	9.79	408	10.32		-0.53
Sub Total (B)	1320	1181	1291	1300	27.90	1163	28.34		-0.44
C. NHPC									
Chamera I HPS (3*180)	540	535	547	183	6.13	255	6.00		0.13
Chamera II HPS (3*100)	300	301	312	204	5.47	228	5.37		0.10
Chamera III HPS (3*77)	231	232	227	154	3.84	160	3.78		0.06
Bairasuil HPS(3*60)	180	179	184	121	3.50	146	3.44		0.06
Salal-HPS (6*115)	690	530	667	532	13.35	556	12.73		0.62
Tanakpur-HPS (3*31.4)	94	31	32	32	0.81	34	0.76		0.05
Uri-I HPS (4*120)	480	475	480	480	11.59	483	11.40		0.19
Uri-II HPS (4*60)	240	237	241	240	5.73	239	5.69		0.04
Dhauliganga-HPS (4*70)	280	280	208	0	2.41	100	2.35		0.05
Dulhasi-HPS (3*130)	390	387	401	403	9.46	394	9.30		0.16
Sewa-II HPS (3*40)	120	120	130	0	1.57	65	1.50		0.07
Parbati 3 (4*130)	520	260	260	0	1.05	44	1.04		0.01
Sub Total (C)	4065	3567	3689	2350	65	2704	63		1.55
D.SJVNL									
NJPC (6*250)	1500	1605	1335	716	24.17	1007	23.95		0.22
Rampur HEP (6*68.67)	412	442	416	217	6.98	291	6.68		0.29
Sub Total (D)	1912	2047	1751	933	31.15	1298	30.63		0.52
E. THDC									
Tehri HPS (4*250)	1000	445	437	0	5.19	216	5.20		-0.01
Koteshwar HPS (4*100)	400	104	202	93	2.53	106	2.50		0.03
Sub Total (E)	1400	549	639	93	7.72	322	7.70		0.02
F. BBMB									
Bhakra HPS (2*108+3*126+5*157)	1379	597	954	375	14.91	621	14.33		0.58
Dehar HPS (6*165)	990	340	660	290	8.31	346	8.16		0.15
Pong HPS (6*66)	396	104	275	55	2.46	103	2.50		-0.04
Sub Total (F)	2765	1041	1889	720	25.68	1070	24.99		0.69
G. IPP(s)/JV(s)									
ALLAIN DUHANGAN HPS(IPP) (2*96)	192	0	91	73	1.64	68	1.82		-0.19
KARCHAM WANGTOO HPS(IPP) (4*250)	1000	0	1000	500	13.45	560	13.42		0.02
Malana Stg-II HPS (2*50)	100	0	110	20	0.64	27	0.59		0.06
Shree Cement TPS (2*150)	300	0	111	146	2.63	109	2.64		-0.01
Budhil HPS(IPP) (2*35)	70	0	0	0	0.00	0	1.08		-1.08
Sub Total (G)	1662	0	1311	740	18.35	765	19.55		-1.20
H. Total Regional Entities (A-G)	25897	19100	18223	13546	333.09	13879	335.86		-2.78

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	320	320	7.18	299
	Guru Nanak Dev TPS(Bhatinda) (2*110+2*120)	460	90	90	2.05	85
	Guru Hargobind Singh TPS(Lmbt) (2*210+2*250)	920	406	407	9.08	378
	Goindwal(GVK) (2*270)	540	0	0	-0.03	-1
	Rajpura (2*700)	1400	330	330	8.76	365
	Talwandi Saboo (3*660)	1980	0	0	-0.09	-4
	Thermal (Total)	6560	1146	1147	26.94	1123
	Total Hydro	1000	663	635	15.45	644
	Wind Power	0	0	0	0.00	0
	Biomass	288	0	0	0.24	10

	Solar	560	0	0	0.07	3	
	Renewable(Total)	848	0	0	0.31	13	
	Total Punjab	8408	1809	1782	42.70	1779	
Haryana	Panipat TPS (2*210+2*250)	920	0	0	0.00	0	
	DCRTPP (Yamuna nagar) (2*300)	600	0	0	0.00	0	
	Faridabad GPS (NTPC)(2*137.75+1*156)	432	0	0	0.00	0	
	RGTPP (khedar) (IPP) (2*600)	1200	758	838	19.00	792	
	Magnum Diesel (IPP)	25	0	0	0.00	0	
	Jhajjar(CLP) (2*660)	1320	380	522	9.86	411	
	Thermal (Total)	4497	1138	1360	28.86	1203	
	Total Hydro	62	13	18	0.52	22	
	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	1151	1378	29.38	1224	
	Rajasthan	kota TPS (2*110+2*195+3*210)	1240	468	367	10.96	457
suratgarh TPS (6*250)		1500	185	223	5.15	214	
Chabra TPS (4*250)		1000	809	909	20.87	870	
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	192	197	4.79	200	
RAPS A (NPC) (1*100+1*200)		300	0	0	0.00	0	
Barsingar (NLC) (2*125)		250	195	203	4.71	196	
Giral LTPS (2*125)		250	0	0	0.00	0	
Rajwst LTPS (IPP) (8*135)		1080	541	800	18.44	768	
VS LIGNITE LTPS (IPP) (1*135)		135	0	0	0.00	0	
Kalisindh Thermal(2*600)		1200	848	826	19.97	832	
Kawai(Adani) (2*660)		1320	523	619	14.29	595	
Thermal (Total)		9536	3761	4144	99.17	4132	
Total Hydro		550	0	82	0.26	11	
Wind power		4017	123	284	5.73	239	
Biomass		99	26	26	0.63	26	
Solar		1295	0	0	2.81	117	
Renewable/Others (Total)		5411	149	310	9.18	382	
Total Rajasthan		15497	3910	4536	108.60	4525	
UP		Anpara TPS (3*210+2*500)	1630	1392	1366	32.62	1359
		Obra TPS (2*50+2*94+5*200)	1194	679	679	15.78	657
		Paricha TPS (2*110+2*220+2*250)	1160	880	779	18.12	755
	Panki TPS (2*105)	210	135	135	3.20	133	
	Harduaganj TPS (1*60+1*105+2*250)	665	390	390	10.04	418	
	Tanda TPS (NTPC) (4*110)	440	285	282	6.22	259	
	Roza TPS (IPP) (4*300)	1200	1058	761	19.90	829	
	Anpara-C (IPP) (2*600)	1200	774	790	18.58	774	
	Bajaj Energy Pvt.Ltd(IPP) TPS (10*45)	450	283	282	7.02	293	
	Anpara-D(2*500)	1000	406	416	9.92	413	
	Lalitpur TPS(3*660)	1980	433	592	11.09	462	
	Bara(2*660)	1320	575	581	12.66	527	
	Thermal (Total)	12449	7290	7053	165.14	6881	
	Vishnuparyag HPS (IPP)(4*110)	440	206	216	5.02	209	
	Alaknanda(4*82.5)	330	153	84	2.33	97	
	Other Hydro	527	221	105	2.94	123	
	Cogeneration	981	400	400	9.60	400	
	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	8270	7858	185.04	7710	
	Uttarakhand	Other Hydro	1250	678	551	13.84	577
Total Gas		225	277	295	6.52	272	
Wind Power		0	0	0	0.00	0	
Biomass		127	0	0	0.00	0	
Solar		20	0	0	0.37	15	
Small Hydro (< 25 MW)		180	0	0	0.00	0	
Renewable(Total)		327	0	0	0.37	15	
Total Uttarakhand		1802	955	846	20.73	864	
Delhi		Raighat TPS (2*67.5)	135	0	0	-0.02	-1
		Delhi Gas Turbine (6x30 + 3x34)	282	0	71	0.52	22
	Pragati Gas Turbine (2x104+ 1x122)	330	149	158	3.78	158	
	Rithala GPS (3*36)	95	0	0	0.00	0	
	Bawana GPS (4*216+2*253)	1370	249	251	6.02	251	
	Badarpur TPS (NTPC) (3*95+2*210)	705	325	328	7.86	328	
	Thermal (Total)	2917	723	808	18.17	757	
	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	723	808	18.17	757		
HP	Baspa HPS (IPP) (3*100)	300	127	116	3.02	126	
	Malana HPS (IPP) (2*43)	86	80	16	0.61	25	
	Other Hydro (>25MW)	372	282	204	5.56	232	
	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	222	175	4.58	191	
	Renewable(Total)	486	222	175	4.58	191	
	Total HP	1244	712	511	13.77	574	
	J & K	Baglihar HPS (IPP) (3*150+3*150)	900	740	595	16.73	697
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	834	661	19	774	
Total State Control Area Generation		50738	18364	18380	436.95	18206	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]		8874	10007.58	188.36	7848		
Total Regional Availability(Gross)	76635	45461	41933	958.40	39933		
IV. Total Hydro Generation:							
Regional Entities Hydro	12234	10036	4904	153.68	6403		
State Control Area Hydro	7163	3757	3158	72.69	3316		
Total Regional Hydro	19397	13793	8062	226.37	9719		
V. Total Renewable Generation:							
Regional Entities Renewable	30	0	0	0.12	5		
State Control Area Renewable	7356	371	485	14.44	602		

Total Regional Renewable	7386	371	485	14.56	607
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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)	-300	-300	0	300	0.00	7.34	-7.34
765 KV Gwalior-Agra (D/C)	2442	2657	2721	0	46.93	0.00	46.93
400 KV Zerda-Kankroli	-22	-175	0	289	0.00	4.48	-4.48
400 KV Zerda-Bhinmal	62	-178	99	282	0.00	2.30	-2.30
220 KV Auraiya-Malanpur	-12	-10	0	54	0.00	0.61	-0.61
220 KV Badod-Kota/Morak	47	60	103	16	0.28	0.00	0.28
Mundra-Mohindergarh(HVDC Bipole)	1799	2201	2505	0	47.63	0.00	47.63
400 KV RAPPC-Sujalpur	385	250	385	0	6.06	0.00	6.06
400 KV Vindhychal-Rihand	0	0	0	0	0.00	0.00	0.00
765 kv Phagi-Gwalior (D/C)	1058	1245	1245	0	22.72	0.00	22.72
+/- 800 kv HVDC Champa-Kurushetra	1500	1500	1500	0	31.37	0	31.37
Sub Total WR	6959	7250			154.99	14.73	140.26
400 kv Sasaram - Varanasi	126	109	147	0	2.62	0.00	2.62
400 kv Sasaram - Allahabad	20	35	35	0	1.22	0.00	1.22
400 kv MZP- GKP (D/C)	197	507	539	0	6.80	0.00	6.80
400 KV Patna-Balia(D/C) X 2	564	837	856	0	16.74	0.00	16.74
400 KV B'Sharif-Balia (D/C)	170	248	292	0	4.14	0.00	4.14
765 KV Gaya-Balia	309	339	386	0	5.71	0.00	5.71
765 KV Gaya-Varanasi (D/C)	436	579	0	601	9.35	0.00	9.35
220 KV Pusauli-Sahupuri	212	260	260	0	4.27	0.00	4.27
132 KV K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
132 KV Son Ngr-Rihand	-24	-31	0	28	0.00	0.54	-0.54
132 KV Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
765 KV Sasaram - Fatehpur	-79	-57	131	159	0.00	0.08	-0.08
400 KV Barh -GKP (D/C)	492	544	548	0	11.02	0.00	11.02
400 kv B'Sharif - Varanasi (D/C)	-7	-113	66	147	0.00	1.41	-1.41
+/- 800 KV HVDC Alipurduar-Agra	0	0	0	0	0.00	0.00	0.00
Sub Total ER	2416	3257			61.86	2.02	59.84
+/- 800 KV HVDC BiswanathCharialli-Agra	-501	-499	0	501.00	0.00	11.74	-11.74
Sub Total NER	-501	-499			0.00	11.74	-11.74
Total IR Exch	8874	10008			216.86	28.50	188.36

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
44.28	0.71	44.99	-0.38	2.12	8.82	-2.09	0.00	0.00

Total IR Schedule (MU)			Total IR Actual (MU)			Net IR UI (MU)		
Through ER	Through WR Incls Mndra	Total	Through ER(including NER)	Through WR	Total	Through ER (including NER)	Through WR	Total
53.43	136.12	189.55	48.10	140.26	188.36	-5.33	4.14	-1.19

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	-11	-12	0	-30	0	-1	0.67

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	0.27	4.75	51.02	75.60	14.41	5.00	0.32	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)	
50.26	18.02	49.75	19.12	50.00	0.038	0.061	50.11	49.86	24.40

VIII(A). Voltage profile 400 kV

Station	Voltage Level (kV)	Maximum		Minimum		Voltage (in % of Time)				Volta ge Deviat
		Voltage(KV)	Time	Voltage (KV)	Time	<380 kV	<390 kV	>420 kV	>430 kV	
Rihand	400	408	09:10	398	00:00	0.0	0.0	0.0	0.0	0.0
Gorakhpur	400	416	06:26	393	19:14	0.0	0.0	0.0	0.0	0.0
Bareilly(PG)400kV	400	420	07:59	393	20:31	0.0	0.0	0.0	0.0	0.0
Kanpur	400	419	08:00	399	19:13	0.0	0.0	0.0	0.0	0.0
Dadri	400	421	07:48	401	00:00	0.0	0.0	0.5	0.0	0.5
Ballabgarh	400	423	07:50	399	22:16	0.0	0.0	5.4	0.0	5.4
Bawana	400	423	07:49	400	00:04	0.0	0.0	10.9	0.0	10.9
Bassi	400	424	18:02	394	22:12	0.0	0.0	1.4	0.0	1.4
Hissar	400	418	05:03	398	00:01	0.0	0.0	0.0	0.0	0.0
Moga	400	421	08:01	403	19:40	0.0	0.0	1.4	0.0	1.4
Abdullapur	400	421	07:42	398	19:38	0.0	0.0	0.3	0.0	0.3
Nalagarh	400	424	08:01	408	19:42	0.0	0.0	30.7	0.0	30.7
Kishenpur	400	413	04:50	400	22:05	0.0	0.0	0.0	0.0	0.0
Wagoora	400	400	04:34	375	21:10	15.4	72.8	0.0	0.0	15.4
Amritsar	400	427	09:12	411	00:00	0.0	0.0	48.0	0.0	48.0
Kashipur	400	0	00:00	0	00:00	0.0	0.0	0.0	0.0	0.0
Hamirpur	400	421	09:05	406	23:03	0.0	0.0	0.3	0.0	0.3
Rishikesh	400	412	18:02	394	19:11	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)				Volta ge Deviat
		Voltage(KV)	Time	Voltage (KV)	Time	<728 kV	<742 kV	>800 kV	>820 kV	
Fatehpur	765	789	07:59	744	19:11	0.0	0.0	0.0	0.0	0.0
Balia	765	791	07:59	758	00:03	0.0	0.0	0.0	0.0	0.0
Moga	765	0	00:00	0	00:00	0.0	0.0	0.0	0.0	0.0
Agra	765	796	07:59	755	22:13	0.0	0.0	0.0	0.0	0.0
Bhiwani	765	809	07:59	769	22:08	0.0	0.0	24.1	0.0	24.1
Unnao	765	783	07:59	743	22:14	0.0	0.0	0.0	0.0	0.0
Lucknow	765	794	07:59	750	20:56	0.0	0.0	0.0	0.0	0.0
Meerut	765	810	05:11	758	19:33	0.0	0.0	13.6	0.0	13.6
Jhatikara	765	807	07:56	764	22:18	0.0	0.0	16.1	0.0	16.1
Bareilly 765 kV	765	800	07:59	751	20:55	0.0	0.0	0.0	0.0	0.0
Anta	765	797	18:02	767	22:10	0.0	0.0	0.0	0.0	0.0
Phagi	765	798	17:58	762	22:07	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	470.78	282.71	475.29	356.29	481.24	535.81

Pong	426.72	384.05	396.50	157.67	394.39	116.59	54.26	184.54
Tehri	829.79	740.04	752.55	60.00	741.20	4.80	86.35	173.00
Koteshwar	612.50	598.50	611.10	4.95	606.94	3.10	173.00	166.58
Chamera-I	760.00	748.75	752.70	0.00	0.00	0.00	218.68	166.78
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	515.99	6.88	498.24	2.54	315.91	306.24

* 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	60	1298	0	477	0	0	5.36	13.34	18.70
Delhi	-267	-19	0	-257	33	0	-5.03	0.22	-4.81
Haryana	149	219	0	149	65	0	1.17	0.25	1.42
HP	-63	-144	0	-190	-617	0	-2.67	-8.75	-11.42
J&K	-163	-300	0	-163	-165	0	-3.90	-7.02	-10.92
CHD	0	20	0	0	0	0	0.00	0.15	0.15
Rajasthan	-8	-237	0	-8	369	0	-0.19	5.88	5.68
UP	806	1301	0	1104	1106	0	8.64	11.49	20.13
Uttarakhand	156	-36	0	-215	153	0	0.60	0.31	0.92
Total	670	2100	0	896	943	0	3.98	15.88	19.86

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

State	Bilateral (MW)		IEX (MW)		PXIL (MW)	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Punjab	651	60	1597	0	0	0
Delhi	-97	-267	403	-366	0	0
Haryana	149	-51	245	-375	0	0
HP	-37	-291	-131	-1004	0	0
J&K	-163	-163	-115	-496	0	0
CHD	0	0	30	-20	0	0
Rajasthan	-8	-8	394	-399	0	0
UP	1110	10	1983	-68	0	0
Uttarakhand	156	-290	156	-77	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	2	20
Haryana	1	20
Rajasthan	2	18
Delhi	6	61
UP	0	10
Uttarakhand	3	21
HP	6	40
J & K	5	32
Chandigarh	4	31

XIII. System Constraints:

XIV. Grid Disturbance / Any Other Significant Event:

XV. Weather Conditions For 30.04.2017 :

XVI. Synchronisation of new generating units :

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

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.