

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(भारत सरकार का उद्यम)

उत्तरी क्षेत्रीय भार प्रेषण केंद्र

CIN: U40105DL2009GOI188682

Power Supply Position in Northern Region for 16.01.2017

Date of Reporting : 17.01.2017



I. Regional Availability/Demand:

Evening Peak (19:00 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
43537	716	44253	49.98	28215	393	28608	49.99	868.84	16.39

* 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:

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

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	40.56	8.30	0.34	49.20	38.96	37.91	-1.05	87.10	0.00
Haryana	50.69	0.34	0.00	51.03	64.24	63.90	-0.34	114.93	0.00
Rajasthan	119.00	4.30	8.52	131.82	75.79	78.36	2.57	210.17	4.39
Delhi	10.77		0.00	10.77	53.48	53.27	-0.21	64.05	0.02
UP	187.08	6.10	0.00	193.18	94.94	94.54	-0.41	287.72	0.00
Uttarakhand		9.00	0.00	13.95	18.86	20.22	1.36	34.16	1.66
HP		5.02	1.01	5.02	20.20	20.58	0.38	25.60	0.00
J & K		3.73	0.00	3.73	36.30	37.55	1.25	41.28	10.32
Chandigarh				0.00	3.77	3.82	0.05	3.82	0.00
Total	408.11	36.79	9.86	458.69	406.54	410.15	3.61	868.84	16.39

* Shortage furnished by the respective constituent's Others include UP Co-generation and JK Diesel

II. B. State's Demand Met in MWs:

UI/OA/PX [OD/Import: (+ve), UD/Export: (-ve)]

State	Evening Peak (19:00 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	5273	0	20	-978	2411	0	16	-542	5273	19:00	0
Haryana	6595	0	-17	-334	2830	0	72	-566	6595	19:00	0
Rajasthan	9503	0	78	644	7570	0	283	714	9852	9:00	0
Delhi	3276	0	-49	146	1429	0	-108	-535	3709	11:00	0
UP	13648	0	-202	-215	10557	0	-33	86	13648	19:00	0
Uttarakhand	1679	190	79	228	1112	0	-62	214	1938	9:00	0
HP	1262	0	45	267	640	0	-95	506	1371	11:00	0
J&K	2105	526	161	799	1572	393	39	719	2121	20:00	530
Chandigarh	195	0	-17	0	95	0	-10	0	223	9:00	0
Total	43537	716	98	556	28215	393	101	596	43537	19:00	716

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

Diversity is 1.03

III. Regional Entities :

UI [OD:(+ve), UG: (-ve)]

Station/ Constituent	Inst. Capacity (Effective) MW	Declared Capacity(MW)	Peak MW	Off Peak MW	Energy	Average	Schedule	UI
			(Gross)	(Gross)	(Net MU)	Sentout(MW)	Net MU	
A. NTPC								
Singrauli STPS (5*200+2*500)	2000	1890	2044	1448	42.90	1788	42.89	0.01
Rihand I STPS (2*500)	1000	943	978	701	19.22	826	20.31	-0.50
Rihand II STPS (2*500)	1000	958	997	650	20.67	861	20.77	-0.10
Rihand III STPS (2*500)	1000	961	1005	682	20.83	868	21.00	-0.18
Dadri I STPS (4*210)	840	814	164	148	3.91	163	4.03	-0.13
Dadri II STPS (2*490)	980	980	464	346	9.62	401	10.26	-0.64
Unchahar I TPS (2*210)	420	257	276	135	4.96	207	5.48	-0.52
Unchahar II TPS (2*210)	420	405	387	349	7.84	326	8.50	-0.66
Unchahar III TPS (1*210)	210	203	200	135	3.90	162	4.23	-0.33
ISTPP (Jhajihar) (3*500)	1500	1440	0	0	0.00	0	0.07	-0.07
Dadri GPS (4*130.19+2*154.51)	830	819	146	377	4.85	202	5.36	-0.50
Anta GPS (3*88.71+1*153.2)	419	427	0	0	0.00	0	0.00	0.00
Auraiya GPS (4*111.19+2*109.30)	663	637	0	0	0.00	0	0.00	0.00
Dadri Solar(5)	5	1	0	0	0.01	1	0.02	0.00
Unchahar Solar(10)	10	1	0	0	0.03	1	0.04	0.00
Singrauli Solar(15)	15	1	0	0	0.05	2	0.03	0.02
KHEP(4*200)	800	872	860	644	2.70	113	2.62	0.08
Sub Total (A)	12112	11608	7521	5615	142	5920	146	-3.53
B. NPC								
NAPS (2*220)	440	422	455	457	10.05	419	10.13	-0.07
RAPS- B (2*220)	440	408	448	450	9.74	406	9.79	-0.05
RAPS- C (2*220)	440	220	236	239	5.05	210	5.28	-0.23
Sub Total (B)	1320	1050	1139	1146	24.84	1035	25.20	-0.36
C. NHPC								
Chamera I HPS (3*180)	540	540	543	0	1.77	74	1.62	0.15
Chamera II HPS (3*100)	300	301	307	0	1.14	47	0.98	0.16
Chamera III HPS (3*77)	231	167	157	0	0.52	22	0.50	0.02
Bairasuli HPS(3*60)	180	157	124	0	0.46	19	0.45	0.01
Salal-HPS (6*115)	690	87	139	100	2.40	100	2.09	0.31
Tanakpur-HPS (3*31.4)	94	22	22	20	0.62	26	0.53	0.09
Uri-I HPS (4*120)	480	109	142	70	2.59	108	2.62	-0.03
Uri-II HPS (4*60)	240	71	60	40	1.59	66	1.70	-0.12
Dhauliganga-HPS (4*70)	280	210	212	0	0.80	33	0.74	0.07
Dulhasti-HPS (3*130)	390	372	266	0	2.68	112	2.60	0.08
Sewa-II HPS (3*40)	120	90	83	0	0.21	9	0.27	-0.06
Parbati 3 (4*130)	520	130	135	0	0.40	17	0.39	0.01
Sub Total (C)	4065	2256	2191	230	15	633	14	0.71
D.SJVNL								
NJPC (6*250)	1500	1370	1338	0	6.19	258	6.20	-0.01
Rampur HEP (6*68.67)	412	375	371	0	1.73	72	1.72	0.01
Sub Total (D)	1912	1745	1709	0	7.91	330	7.92	-0.01
E. THDC								
Tehri HPS (4*250)	1000	976	967	0	8.50	354	8.50	0.00
Koteshwar HPS (4*100)	400	132	396	90	3.24	135	3.18	0.06
Sub Total (E)	1400	1108	1363	90	11.74	489	11.68	0.06
F. BBMB								
Bhakra HPS (2*108+3*126+5*157)	1379	512	1021	396	12.87	536	12.29	0.58
Dehar HPS (6*165)	990	110	495	0	2.56	107	2.63	-0.07
Pong HPS (6*66)	396	179	396	0	4.27	178	4.30	-0.04
Sub Total (F)	2765	801	1912	396	19.70	821	19.23	0.47
G. IPP(s)/JV(s)								
ALLAIN DUHANGAN HPS(IPP) (2*96)	192	0	0	0	0.40	17	0.38	0.02
KARCHAM WANGTOO HPS(IPP) (4*250)	1000	0	550	0	3.01	125	3.56	-0.55
Malana Stg-II HPS (2*50)	100	0	0	0	0.19	8	0.18	0.01
Shree Cement TPS (2*150)	300	0	151	134	3.35	139	3.41	-0.07
Budhil HPS(IPP) (2*35)	70	0	0	0	0.15	6	0.15	0.00
Sub Total (G)	1662	0	701	134	7.10	296	7.68	-0.58
H. Total Regional Entities (A-G)	25237	18569	16537	7612	228.55	9523	231.80	-3.24

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	0	0	-0.13	-5
	Guru Nanak Dev TPS(Bhatinda) (2*110+2*120)	460	0	0	-0.03	-1
	Guru Hargobind Singh TPS(L.mbt) (2*210+2*250)	920	211	182	4.33	181
	Goinawal(GVK) (2*270)	540	0	0	-0.03	-1

	Rajpura (2*700)	1400	1320	660	25.31	1055
	Talwandi Saboo (3*660)	1980	616	616	11.10	463
	Thermal (Total)	6560	2147	1458	40.56	1690
	Total Hydro	1000	440	179	8.30	346
	Wind Power	0	0	0	0.00	0
	Biomass	288	0	0	0.29	12
	Solar	560	0	0	0.05	2
	Renewable(Total)	848	0	0	0.34	14
	Total Punjab	8408	2587	1637	49.20	2050
Haryana	Panipat TPS (2*210+2*250)	920	0	0	0.00	0
	DCRTPP (Yamuna nagar) (2*300)	600	231	230	5.61	234
	Faridabad GPS (NTPC)(2*137.75+1*156)	432	0	0	0.00	0
	RGTPP (khedar) (IPP) (2*600)	1200	1156	753	23.39	974
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP) (2*660)	1320	1149	736	21.70	904
	Thermal (Total)	4497	2536	1719	50.69	2112
	Total Hydro	62	10	10	0.34	14
	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	2546	1729	51.03	2126
Rajasthan	kota TPS (2*110+2*195+3*210)	1240	1156	957	25.70	1071
	suratgarh TPS (6*250)	1500	221	183	5.10	213
	Chabra TPS (4*250)	1000	915	779	20.90	871
	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	151	129	3.70	154
	RAPS A (NPC) (1*100+1*200)	300	190	190	4.30	179
	Barsingar (NLC) (2*125)	250	225	227	5.30	221
	Giral LTPS (2*125)	250	0	0	0.00	0
	Rajwest LTPS (IPP) (8*135)	1080	714	382	15.10	629
	VS LIGNITE LTPS (IPP) (1*135)	135	0	0	0.00	0
	Kalisindh Thermal(2*600)	1200	1133	823	24.80	1033
	Kawai(Adani) (2*660)	1320	630	452	14.10	588
	Thermal (Total)	8876	5335	4122	119.00	4958
	Total Hydro	550	217	97	4.30	179
	Wind power	4017	118	617	6.07	253
	Biomass	99	9	9	0.21	9
	Solar	1295	3	0	2.24	93
	Renewable/Others (Total)	5411	130	626	8.52	355
	Total Rajasthan	14837	5682	4845	131.82	5492
UP	Anpara TPS (3*210+2*500)	1630	1421	1087	32.10	1338
	Obra TPS (2*50+2*94+5*200)	1194	490	433	11.60	483
	Paricha TPS (2*110+2*220+2*250)	1160	894	649	17.60	733
	Panki TPS (2*105)	210	135	135	3.30	138
	Harduaganj TPS (1*60+1*105+2*250)	665	533	398	10.80	450
	Tanda TPS (NTPC) (4*110)	440	381	275	8.18	341
	Roza TPS (IPP) (4*300)	1200	1111	747	23.10	963
	Anpara-C (IPP) (2*600)	1200	878	630	22.40	933
	Bajaj Energy Pvt.Ltd(IPP) TPS (10*45)	450	226	168	4.50	188
	Anpara-D(2*500)	1000	584	585	14.10	588
	Lalitpur TPS(3*660)	1980	0	0	0.00	0
	Bara(2*660)	1320	728	725	19.00	792
	Thermal (Total)	12449	7381	5832	166.68	6945
	Vishnuparyag HPS (IPP)(4*110)	440	53	73	1.70	71
	Alakanada(4*82.5)	330	76	0	1.10	46
	Other Hydro	527	143	83	3.30	138
	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	0.00	0
	Renewable(Total)	128	0	0	0.00	0
Total UP	14855	8503	6838	193.18	8049	
Uttarakhand	Other Hydro	1250	624	280	9.00	375
	Total Gas	225	65	270	4.92	205
	Wind Power	0	0	0	0.00	0
	Biomass	127	0	0	0.00	0
	Solar	20	0	0	0.03	1
	Small Hydro (< 25 MW)	180	0	0	0.00	0
	Renewable(Total)	327	0	0	0.03	1
	Total Uttarakhand	1802	689	550	13.95	581
Delhi	Rajghat TPS (2*67.5)	135	0	0	0.01	0
	Delhi Gas Turbine (6x30 + 3x34)	282	31	77	1.54	64
	Pragati Gas Turbine (2x104+ 1x122)	330	138	128	3.33	139
	Rithala GPS (3*36)	95	0	0	0.00	0
	Bawana GPS (4*216+2*253)	1370	251	280	6.08	253
	Badarpur TPS (NTPC) (3*95+2*210)	705	-4	-4	-0.18	-7
	Thermal (Total)	2917	416	481	10.77	449
	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	416	481	10.77	449	
HP	Baspa HPS (IPP) (3*100)	300	0	0	0.98	41
	Malana HPS (IPP) (2*43)	86	0	0	0.18	8
	Other Hydro	372	127	58	2.85	119
	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	49	34	1.01	42
	Renewable(Total)	486	49	34	1.01	42
	Total HP	1244	176	92	5.02	209
	J & K	Baqilhar HPS (IPP) (3*150+3*150)	900	117	113	2.78
Other Hydro/IPP(including 98 MW Small Hydro)		308	80	18	0.95	40
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	197	131	4	155	

Total State Control Area Generation	50078	20796	16303	458.69	19112
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]		9147	6162	205.90	8579
Total Regional Availability(Gross)	75315	46480	30077	893.15	37214

IV. Total Hydro Generation:

Regional Entities Hydro	12234	8586	1360	60.83	2535
State Control Area Hydro	7163	2001	1215	36.79	1739
Total Regional Hydro	19397	10586	2575	97.62	4274

V. Total Renewable Generation:

Regional Entities Renewable	30	0	0	0.09	4
State Control Area Renewable	7356	179	660	9.89	412
Total Regional Renewable	7386	179	660	9.98	416

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

Element	Peak(19:00 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	-500	100	500	0.34	6.77	-6.43
765 KV Gwalior-Agra (D/C)	2780	1775	3077	0	60.24	0.00	60.24
400 KV Zerda-Kankroli	-3	-150	78	180	0.00	1.10	-1.10
400 KV Zerda-Bhimnal	91	-63	228	90	1.80	0.00	1.80
220 KV Auraiya-Malanpur	-66	-90	0	100	0.00	1.25	-1.25
220 KV Badod-Kota/Morak	3	-61	39	68	0.00	0.40	-0.40
Mundra-Mohinderghar(HVDC Bipole)	2502	1999	2506	0.00	56.24	0.00	56.24
400 KV RAPPCC-Sujalpur	460	219	-470	0	8.31	0.00	8.31
400 KV Vindhychal-Rihand	0	0	0	0	0.00	0.00	0.00
765 kV Phagi-Gwalior (D/C)	1363	1022	1564	0	32.90	0.00	32.90
Sub Total WR	6830	4151			159.83	9.52	150.31
400 kV Sasaram - Varanasi	213	200	237	0	7.03	0.00	7.03
400 kV Sasaram - Allahabad	17	42	46	0	0.73	0.00	0.73
400 KV MZP- GKP (D/C)	63	236	398	80	5.30	0.00	5.30
400 KV Patna-Balia(D/C) X 2	635	634	800	0	15.98	0.00	15.98
400 KV B'Sharif-Balia (D/C)	79	132	251	0	3.48	0.00	3.48
765 KV Gaya-Balia	299	247	329	0	6.59	0.00	6.59
765 KV Gaya-Varanasi (D/C)	614	423	776	0	14.32	0.00	14.32
220 KV Pusaali-Sahupuri	136	92	147	0	2.66	0.00	2.66
132 KV K'nasa-Sahupuri	0	0	0	0	0.00	0.51	-0.51
132 KV Son Ngr-Rihand	-30	-24	0	30	0.00	0.58	-0.58
132 KV Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
765 KV Sasaram - Fatehpur	73	62	148	108	0.11	0.00	0.11
400 KV Barh -GKP (D/C)	538	434	584	0	11.38	0.00	11.38
400 kV B'Sharif - Varanasi (D/C)	30	41	187	0	1.03	0.00	1.03
Sub Total ER	2667	2519			68.62	1.09	67.53
+/- 800 KV BiswanathChariali-Agra	-350	-508	0	508.00	0.00	11.94	-11.94
Sub Total NER	-350	-508			0.00	11.94	-11.94
Total IR Exch	9147	6162			228.45	22.55	205.90

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
46.64	0.25	46.88	-0.07	0.97	18.69	0.00	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
65.50	142.97	208.47	55.59	150.31	205.90	-9.91	7.33	-2.57

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

Element	Peak(19:00 Hrs) MW	Off Peak(03:00 Hrs) MW	Maximum Interchange (MW)		Energy (MU)		Net Energy MU
			Import	Export	Import	Export	
132 KV Tanakpur - Mahendarnagar	-39	-35	0	39	0	1	-0.87

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	6.38	44.09	68.34	18.67	5.67	1.05	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)		
50.30	0.00	49.78	21.06	50.01	0.048	0.069	0.00	0.00	31.66

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	407	1:03	397	7:41	0.0	0.0	0.0	0.0	0.0
Gorakhpur	400	418	4:01	400	9:40	0.0	0.0	0.0	0.0	0.0
Bareilly(PG)400kV	400	421	0:59	397	9:47	0.0	0.0	1.2	0.0	1.2
Kanpur	400	417	0:59	395	9:37	0.0	0.0	0.0	0.0	0.0
Dadri	400	427	3:59	401	9:38	0.0	0.0	22.2	0.0	22.2
Ballabgarh	400	430	4:00	404	9:37	0.0	0.0	33.0	0.0	33.0
Bawana	400	425	3:44	401	9:38	0.0	0.0	19.7	0.0	19.7
Bassi	400	425	4:00	396	9:35	0.0	0.0	2.3	0.0	2.3
Hissar	400	423	4:03	397	12:43	0.0	0.0	1.4	0.0	1.4
Moga	400	415	19:38	402	12:15	0.0	0.0	0.0	0.0	0.0
Abdullapur	400	427	3:03	405	12:15	0.0	0.0	27.6	0.0	27.6
Nalagarh	400	430	3:12	412	12:16	0.0	0.0	39.4	0.0	39.4
Kishenpur	400	419	2:28	397	12:14	0.0	0.0	0.0	0.0	0.0
Wagoora	400	412	17:49	367	10:34	36.3	85.6	0.0	0.0	36.3
Amritsar	400	429	3:07	406	12:14	0.0	0.0	33.8	0.0	33.8
Kashipur	400	0	0:00	0	0:00	0.0	0.0	0.0	0.0	0.0
Hamirpur	400	424	2:27	413	5:49	0.0	0.0	22.5	0.0	22.5
Rishikesh	400	422	4:00	391	9:42	0.0	0.0	4.4	0.0	4.4

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	772	20:28	734	9:47	0.0	4.3	0.0	0.0	0.0
Balia	765	787	4:02	749	9:47	0.0	0.0	0.0	0.0	0.0
Moga	765	792	19:43	764	9:38	0.0	0.0	0.0	0.0	0.0

Agra	765	788	4:01	746	9:38	0.0	0.0	0.0	0.0	0.0
Bhiwani	765	809	3:04	763	9:38	0.0	0.0	20.6	0.0	20.6
Unnao	765	775	4:02	730	9:46	0.0	23.9	0.0	0.0	0.0
Lucknow	765	800	4:00	758	9:47	0.0	0.0	0.0	0.0	0.0
Meerut	765	807	20:26	762	9:38	0.0	0.0	11.6	0.0	11.6
Jhatikara	765	806	4:01	758	9:38	0.0	0.0	10.5	0.0	10.5
Bareilly 765 kV	765	796	4:02	750	9:38	0.0	0.0	0.0	0.0	0.0
Anta	765	796	3:58	758	9:33	0.0	0.0	0.0	0.0	0.0
Phagi	765	804	4:00	754	9:42	0.0	0.0	0.6	0.0	0.6

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	485.14	593.99	498.22	1029.80	172.14	391.28
Pong	426.72	384.05	406.33	379.44	408.38	444.61	59.04	294.33
Tehri	829.79	740.04	801.90	645.00	795.25	532.00	38.28	206.00
Koteshwar	612.50	598.50	610.37	4.95	611.13	5.20	206.00	212.99
Chamera-I	760.00	748.75	759.22	0.00	0.00	0.00	44.23	47.75
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	503.48	2.03	496.31	3.15	39.48	76.11

* NA: Not Available

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

State	Off- Peak Hours (03:00 Hrs)			Peak Hours (19:00 Hrs)			Day Energy (MU)		
	Bilateral (MW)	IEX (MW)	PXIL (MW)	Bilateral (MW)	IEX (MW)	PXIL (MW)	Bilateral (MU)	IEX / PXIL (MU)	Total (MU)
Punjab	-544	1	0	-618	-360	0	-18.45	-2.41	-20.86
Delhi	-94	-441	0	-271	417	0	-3.81	3.27	-0.53
Haryana	-847	281	0	-616	282	0	-15.40	3.28	-12.12
HP	433	72	0	348	-81	0	11.66	-0.87	10.79
J&K	612	107	0	608	190	0	14.49	5.35	19.84
CHD	0	0	0	0	0	0	0.00	-0.01	-0.01
Rajasthan	305	409	0	298	346	0	14.75	9.46	24.21
UP	86	0	0	-115	-100	0	-7.42	-1.60	-9.02
Uttarakhand	120	94	0	216	13	0	3.47	3.36	6.83
Total	72	524	0	-149	706	0	-0.71	19.84	19.13

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

State	Bilateral (MW)		IEX (MW)		PXIL (MW)	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Punjab	-534	-1264	1	-796	0	0
Delhi	-17	-284	868	-486	0	0
Haryana	-513	-950	327	-588	0	0
HP	696	279	94	-398	0	0
J&K	612	593	411	-15	0	0
CHD	0	0	48	-31	0	0
Rajasthan	1191	286	660	290	0	0
UP	147	-819	0	-100	0	0
Uttarakhand	307	120	350	-23	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	6.60%
ER	0.00%
Simultaneous	0.35%

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

WR	33.33%
ER	0.00%
Simultaneous	29.86%

(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	3	17
Haryana	1	18
Rajasthan	1	16
Delhi	4	21
UP	0	11
Uttarakhand	4	47
HP	3	33
J & K	4	45
Chandigarh	4	38

XIII. System Constraints:

XIV. Grid Disturbance / Any Other Significant Event:

XV. Weather Conditions For 16.01.2017 :

XVI. Synchronisation of new generating units :

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

1000 MVA 765/400 kV ICT at Mainpuri(UP) first time charged at 1844Hrs from 765kV side and put on load

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 : 16.01.2017

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER