

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)

उत्तरी क्षेत्रीय भार प्रेषण केंद्र

CIN: U40105DL2009GOI188682

Power Supply Position in Northern Region for 30.09.2016

Date of Reporting : 01.10.2016



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
46907	2207	49114	50.14	43300	2925	46225	50.07	1042.9	49.94

* 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	89.52	14.85		105.21	83.17	84.15	0.98	189.36	0.00
Haryana	53.78	0.88		54.66	118.69	112.91	-5.79	167.57	0.00
Rajasthan	139.68	1.00	8.84	149.52	52.45	54.20	1.75	203.72	0.30
Delhi	24.19			24.19	84.76	85.47	0.71	109.66	0.03
UP	126.44	22.20		148.64	118.03	125.70	7.67	274.34	40.61
Uttarakhand	16.36	16.36		21.18	16.22	11.14	-5.08	32.32	0.00
HP	14.78			14.78	9.32	11.14	1.83	25.92	0.34
J & K	16.83		0.00	16.83	19.58	17.74	-1.84	34.58	8.66
Chandigarh				0.00	5.20	5.40	0.21	5.40	0.00
Total	433.61	86.90	8.84	535.01	507.41	507.85	0.44	1042.86	49.94

* 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 (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	8431	0	-16	866	7472	0	155	825	8431	20:00	0
Haryana	8439	0	-403	1961	7001	0	154	1467	8439	20:00	0
Rajasthan	8816	0	-57	263	9324	0	233	341	9590	1:00	0
Delhi	4971	0	22	662	4477	0	155	411	5237	24:00	0
UP	11904	1770	156	293	12068	2655	509	1478	12506	1:00	2125
Uttarakhand	1207	0	-97	130	893	0	-328	187	1309	8:00	0
HP	1135	0	14	-839	811	0	100	-715	1414	8:00	0
J&K	1748	437	-63	-255	1080	270	-153	-354	1748	20:00	437
Chandigarh	257	0	-18	-10	175	0	9	0	272	19:00	0
Total	46907	2207	-463	3070	43300	2925	834	3639	46907	20:00	2207

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

III. Regional Entities :

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UI [OG:(+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	Net MU
A. NTPC								
Singrauli STPS (5*200+2*500)	2000	1087	1411	1037	27.20	1133	26.06	1.14
Rihand I STPS (2*500)	1000	535	623	541	13.14	548	12.81	0.33
Rihand II STPS (2*500)	1000	573	588	645	14.19	591	13.66	0.53
Rihand III STPS (2*500)	1000	387	306	654	7.85	327	9.24	-1.39
Dadri I STPS (4*210)	840	815	782	656	18.60	775	19.05	-0.45
Dadri II STPS (2*490)	980	970	963	906	21.73	905	22.48	-0.75
Unchahar I TPS (2*210)	420	153	174	161	3.58	149	3.62	-0.05
Unchahar II TPS (2*210)	420	400	432	419	9.07	378	9.44	-0.37
Unchahar III TPS (1*210)	210	200	216	201	4.42	184	4.72	-0.31
ISTPP (Jhajjar) (3*500)	1500	1425	296	298	7.42	309	7.52	-0.11
Dadri GPS (4*130.19+2*154.51)	830	787	387	376	8.83	368	9.33	-0.50
Anta GPS (3*88.71+1*153.2)	419	393	222	255	5.62	234	5.57	0.05
Auraiya GPS (4*111.19+2*109.30)	663	623	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	0.04	-0.01
Singrauli Solar(15)	15	2	0	0	0.04	2	0.04	0.00
KHEP(4*200)	800	858	858	0	5.76	240	5.26	0.51
Sub Total (A)	12112	9210	7258	6149	147	6146	149	-1.38
B. NPC								
NAPS (2*220)	440	190	209	213	4.55	190	4.56	-0.01
RAPS- B (2*220)	440	368	413	420	8.91	371	8.83	0.08
RAPS- C (2*220)	440	0	0	0	-0.25	-10	0.00	-0.25
Sub Total (B)	1320	558	622	633	13.22	551	13.39	-0.17
C. NHPC								
Chamera I HPS (3*180)	540	540	548	0	3.67	153	3.50	0.17
Chamera II HPS (3*100)	300	301	310	102	3.97	165	3.85	0.12
Chamera III HPS (3*77)	231	221	222	78	2.61	109	2.45	0.16
Bairasuli HPS(3*60)	180	179	179	60	1.27	53	1.20	0.07
Salal-HPS (6*115)	690	464	565	350	11.90	496	11.13	0.77
Tanakpur-HPS (3*31.4)	94	72	80	74	1.88	78	1.72	0.16
Uri-I HPS (4*120)	480	170	309	125	4.50	187	4.09	0.41
Uri-II HPS (4*60)	240	102	181	80	2.56	107	2.45	0.11
Dhauliganga-HPS (4*70)	280	280	138	73	3.08	128	2.92	0.16
Dulhasti-HPS (3*130)	390	383	397	390	9.24	385	9.18	0.06
Sewa-II HPS (3*40)	120	119	37	0	0.70	29	0.65	0.05
Parbati 3 (4*130)	520	520	393	0	1.62	67	1.56	0.06
Sub Total (C)	4065	3351	3358	1332	47	1958	45	2.28
D.SJVNL								
NJPC (6*250)	1500	1605	1602	511	23.14	964	22.67	0.46
Rampur HEP (6*68.67)	412	442	443	147	6.60	275	6.32	0.28
Sub Total (D)	1912	2047	2045	658	29.74	1239	28.99	0.75
E. THDC								
Tehri HPS (4*250)	1000	1071	1001	254	6.67	278	6.50	0.17
Koteshwar HPS (4*100)	400	116	270	91	2.73	114	2.70	0.03
Sub Total (E)	1400	1188	1271	345	9.40	391	9.20	0.20
F. BBMB								
Bhakra HPS (2*108+3*126+5*157)	1379	695	1230	514	16.94	706	16.68	0.26
Dehar HPS (6*165)	990	468	825	330	11.61	484	11.22	0.39
Pong HPS (6*66)	396	219	330	132	5.20	216	5.25	-0.06
Sub Total (F)	2765	1381	2385	976	33.75	1406	33.15	0.60
G. IPP(s)/JV(s)								
ALLAIN DUHANGAN HPS(IPP) (2*96)	192	0	106	52	1.49	62	1.41	0.08
KARCHAM WANGTOO HPS(IPP) (4*250)	1000	0	900	310	12.91	538	12.24	0.67
Malana Stg-II HPS (2*50)	100	0	67	40	1.21	50	1.13	0.08
Shree Cement TPS (2*150)	300	0	295	292	6.90	288	6.92	-0.01
Budhil HPS(IPP) (2*35)	70	0	37	35	0.80	33	0.95	-0.15
Sub Total (G)	1662	0	1405	729	23.31	971	22.65	0.67
H. Total Regional Entities (A-G)	25237	17735	18345	10822	303.89	12662	300.95	2.94

I. State Entities	Station	Effective Installed Capacity (MW)	Peak MW	Off Peak MW	Energy(MU)	Average(Sent out MW)	
Punjab	Guru Gobind Singh TPS (Ropar) (6*210)	1260	840	670	17.27	720	
	Guru Nanak Dev TPS(Bhatinda) (2*110+2*120)	460	120	120	2.51	105	
	Guru Hargobind Singh TPS(L.mbt) (2*210+2*250)	920	462	464	10.00	416	
	Goindwal(GVK) (2*270)	540	0	0	-0.03	-1	
	Rajpura (2*700)	1400	1320	1320	31.55	1315	
	Talwandi Saboo (3*660)	1980	1228	1228	28.23	1176	
	Thermal (Total)	6560	3970	3802	89.52	3730	
	Total Hydro	1000	608	594	14.85	619	
	Wind Power	0	0	0	0.00	0	
	Biomass	73	24	24	0.58	24	
	Solar	494	0	0	0.26	11	
	Renewable(Total)	567	24	24	0.84	35	
	Total Punjab	8127	4602	4420	105.21	4384	
	Haryana	Panipat TPS (2*210+2*250)	920	768	758	17.68	737
		DCRTPP (Yamuna nagar) (2*300)	600	465	465	11.31	471
		Faridabad GPS (NTPC)(2*137.75+1*156)	432	174	170	4.18	174
RGTPP (khedar) (IPP) (2*600)		1200	853	766	19.04	793	
Magnum Diesel (IPP)		25	0	0	0.00	0	
Jhajjar(CLP) (2*660)		1320	142	0	1.57	65	
Thermal (Total)		4497	2402	2159	53.78	2241	
Total Hydro		62	27	29	0.88	37	
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	2429	2188	54.66	2278	
Rajasthan	kota TPS (2*110+2*195+3*210)	1240	942	927	21.76	907	
	suratgarh TPS (6*250)	1500	1045	1131	24.84	1035	
	Chabra TPS (4*250)	1000	869	813	19.04	793	
	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	140	143	3.46	144	
	RAPS A (NPC) (1*100+1*200)	300	167	168	4.19	175	
	Barsingsar (NLC) (2*125)	250	102	100	2.40	100	
	Giral LTPS (2*125)	250	0	0	0.00	0	
	Rajwest LTPS (IPP) (8*135)	1080	918	938	22.00	916	
	VS LIGNITE LTPS (IPP) (1*135)	135	0	0	0.00	0	
	Kalisindh Thermal(2*600)	1200	537	555	12.93	539	
	Kawai(Adani) (2*660)	1320	1217	1227	29.06	1211	
	Thermal (Total)	8876	5937	6002	139.68	5820	
	Total Hydro	550	69	70	1.00	42	
	Wind power	4017	112	917	8.36	348	
	Biomass	99	20	20	0.49	20	
	Solar	1295	0	0	0.00	0	
	Renewable/Others (Total)	5411	132	937	8.84	369	
	Total Rajasthan	14837	6138	7009	149.52	6230	
UP	Anpara TPS (3*210+2*500)	1630	470	387	10.50	438	
	Obra TPS (2*50+2*94+5*200)	1194	168	266	6.20	258	
	Paricha TPS (2*110+2*220+2*250)	1160	923	908	21.40	892	
	Panki TPS (2*105)	210	153	131	3.40	142	
	Harduaganj TPS (1*60+1*105+2*250)	665	539	527	12.80	533	
	Tanda TPS (NTPC) (4*110)	440	350	370	8.54	356	
	Roza TPS (IPP) (4*300)	1200	1139	1124	27.00	1125	
	Anpara-C (IPP) (2*600)	1200	878	900	21.00	875	
	Bajaj Energy Pvt.Ltd(IPP) TPS (10*45)	450	405	404	9.60	400	
	Anpara-D(2*500)	1000	269	180	4.80	200	
	Lalitpur TPS(3*660)	1980	0	0	0.00	0	
	Bara(2*660)	1320	0	0	0.00	0	
	Thermal (Total)	12449	5294	5197	125.24	5218	
	Vishnuparyag HPS (IPP)(4*110)	440	435	435	9.90	413	
	Alaknada(4*82.5)	330	164	215	4.90	204	
	Other Hydro	527	343	303	7.40	308	
	Cogeneration	981	50	50	1.20	50	
	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	6286	6200	148.64	6193		
Uttarakhand	Other Hydro	1250	788	612	16.36	682	
	Total Gas	225	219	225	4.82	201	
	Wind Power	0	0	0	0.00	0	
	Biomass	127	0	0	0.00	0	
	Solar	20	0	0	0.00	0	
	Small Hydro (< 25 MW)	180	0	0	0.00	0	
	Renewable(Total)	327	0	0	0.00	0	
	Total Uttarakhand	1802	1007	837	21.18	882	
Delhi	Rajghat TPS (2*67.5)	135	0	0	-0.24	-10	
	Delhi Gas Turbine (6x30 + 3x34)	282	74	74	1.83	76	
	Pragati Gas Turbine (2x104+ 1x122)	330	144	149	3.61	151	
	Rithala GPS (3*36)	95	0	0	0.00	0	
	Bawana GPS (4*216+2*253)	1370	504	502	11.92	497	
	Badarpur TPS (NTPC) (3*95+2*210)	705	334	323	7.08	295	
	Thermal (Total)	2917	1056	1048	24.19	1008	
	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	1056	1048	24.19	1008		

HP	Baspa HPS (IPP) (3*100)	300	145	300	5.29	220
	Malana HPS (IPP) (2*43)	86	47	41	1.03	43
	Other Hydro	372	190	167	3.70	154
	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	203	194	4.76	198
	Renewable(Total)	486	203	194	4.76	198
	Total HP	1244	584	702	14.78	616
	J & K	Baglihar HPS (IPP) (3*150+3*150)	900	586	586	14.06
Other Hydro/IPP(including 98 MW Small Hydro)		308	138	93	2.77	115
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	724	679	17	701
Total State Control Area Generation		49797	22826	23083	535.01	22292
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]		8052	10454	227.38	9474	
Total Regional Availability(Gross)	75034	49223	44359	1066.29	44429	

IV. Total Hydro Generation:

Regional Entities Hydro	12234	10990	3713	141.24	5885
State Control Area Hydro	7163	3961	3864	86.90	3821
Total Regional Hydro	19397	14952	7577	228.14	9706

V. Total Renewable Generation:

Regional Entities Renewable	30	0	0	0.09	4
State Control Area Renewable	7075	359	1155	14.44	602
Total Regional Renewable	7105	359	1155	14.54	606

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	
Vindhyhall(HVDC B/B)	250	250	250	0	5.74	0.00	5.74
765 KV Gwalior-Agra (D/C)	2020	2574	2580	0	54.64	0.00	54.64
400 KV Zerda-Kankroli	89	109	109	47	0.98	0.00	0.98
400 KV Zerda-Bhinmal	96	127	180	20	1.96	0.00	1.96
220 KV Auraiya-Malanpur	-38	-55	0	75	0.00	1.08	-1.08
220 KV Badod-Kota/Morak	89	114	139	0	2.19	0.00	2.19
Mundra-Mohindergerh(HVDC Bipole)	2102	2096	2303	0.00	50.89	0.00	50.89
400 KV Vindhyachal - Rihand	0	0	0	0	0.00	0.00	0.00
765 kV Phagi-Gwalior (D/C)	887	1104	1189	0	24.09	0.00	24.09
Sub Total WR	5495	6319			140.49	1.08	139.41
Pusauli Bypass/HVDC	-111	-39	0	107	0.00	0.99	-0.99
400 KV MZP- GKP (D/C)	107	569	748	0	11.22	0.00	11.22
400 KV Patna-Balia(D/C) X 2	452	621	731	0	17.62	0.00	17.62
400 KV B Sharif-Balia (D/C)	74	254	304	0	5.35	0.00	5.35
765 KV Gaya-Balia	281	424	443	0	4.49	0.00	4.49
765 KV Gaya-Varanasi (D/C)	614	876	987	0	19.66	0.00	19.66
220 KV Pusauli-Sahupuri	0	0	0	0	0.00	0.00	0.00
132 KV K'nasa-Sahupuri	-26	-20	0	34	0.00	0.55	-0.55
132 KV Son Ngr-Rihand	-18	-22	0	32	0.00	0.48	-0.48
132 KV Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
765 KV Sasaram - Fatehpur	56	157	268	0	3.71	0.00	3.71
400 KV Barh -GKP (D/C)	374	412	456	0	9.31	0.00	9.31
400 kV B Sharif - Varanasi (D/C)	92	224	352	0	5.25	0.00	5.25
Sub Total ER	1895	3456			76.61	2.02	74.58
+/- 800 KV BiswanathChariali-Agra	662	679	683	0.00	13.40	0.00	13.40
Sub Total NER	662	679			13.40	0.00	13.40
Total IR Exch	8052	10454			230.49	3.10	227.38

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
51.43	3.73	55.16	26.26	13.18	12.91	24.03	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
94.33	130.15	224.48	87.98	139.41	227.38	-6.36	9.26	2.91

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	-30	0	0	30	0	0	-0.44

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	7.63	60.47	77.71	12.41	2.29	0.00	0.00

<----- Frequency (Hz) ----->				Average Frequency Hz	Frequency Variation Index	Std. Dev.	Frequency in 15 Min Block		Freq Dev Index (% of Time)
Maximum		Minimum					MAX (Hz)	MIN (Hz)	
Freq	Time	Freq	Time						
50.14	21.53	49.80	5.16	49.98	0.037	0.059	50.19	49.96	22.29

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	412	7:46	406	18:40	0.0	0.0	0.0	0.0	0.0
Gorakhpur	400	419	17:08	404	23:57	0.0	0.0	0.0	0.0	0.0
Bareilly(PG)400kV	400	414	3:59	398	11:11	0.0	0.0	0.0	0.0	0.0
Kanpur	400	417	7:52	399	11:23	0.0	0.0	0.0	0.0	0.0
Dadri	400	412	4:01	396	11:20	0.1	0.1	0.0	0.0	0.1
Ballabgarh	400	418	7:41	396	11:23	0.0	0.0	0.0	0.0	0.0
Bawana	400	415	6:06	397	11:26	0.0	0.0	0.0	0.0	0.0
Bassi	400	418	18:01	396	11:23	0.0	0.0	0.0	0.0	0.0
Hissar	400	410	4:00	394	11:09	0.0	0.0	0.0	0.0	0.0
Moga	400	413	4:02	398	19:05	0.0	0.0	0.0	0.0	0.0
Abdullapur	400	419	6:17	402	19:04	0.0	0.0	0.0	0.0	0.0
Nalagarh	400	420	3:02	404	19:03	0.0	0.0	0.0	0.0	0.0
Kishenpur	400	417	4:02	398	18:50	0.0	0.0	0.0	0.0	0.0
Wagoora	400	412	2:56	373	19:05	9.0	42.0	0.0	0.0	9.0
Amritsar	400	419	3:34	402	18:48	0.0	0.0	0.0	0.0	0.0
Kashipur	400	0	0:00	0	0:00	0.0	0.0	0.0	0.0	0.0
Hamirpur	400	417	3:58	401	11:09	0.0	0.0	0.0	0.0	0.0
Rishikesh	400	412	4:01	394	0:15	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 Deviat
		Voltage(KV)	Time	Voltage (KV)	Time	<728 kV	<742 kV	>800 kV	>820 kV	
Fatehpur	765	776	7:47	743	11:09	0.0	0.0	0.0	0.0	0.0
Balia	765	783	7:50	760	11:05	0.0	0.0	0.0	0.0	0.0
Moga	765	788	3:58	760	11:26	0.0	0.0	0.0	0.0	0.0
Agra	765	791	17:04	749	11:23	0.0	0.0	0.0	0.0	0.0
Bhiwani	765	792	7:41	762	11:10	0.0	0.0	0.0	0.0	0.0
Unnao	765	770	7:47	748	11:09	0.0	0.0	0.0	0.0	0.0
Lucknow	765	785	7:51	760	11:06	0.0	0.0	0.0	0.0	0.0
Meerut	765	796	7:51	760	11:23	0.0	0.0	0.0	0.0	0.0
Jhatikara	765	793	7:52	754	11:26	0.0	0.0	0.0	0.0	0.0
Bareilly 765 kV	765	781	20:41	753	11:08	0.0	0.0	0.0	0.0	0.0
Anta	765	785	17:05	767	19:06	0.0	0.0	0.0	0.0	0.0
Phagi	765	792	17:05	758	11:42	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	502.76	1205.87	511.66	1635.65	422.54	483.28
Pong	426.72	384.05	416.47	730.66	421.14	946.20	105.03	320.77
Tehri	829.79	740.04	824.60	1099.49	822.75	1060.36	167.16	144.00
Koteshwar	612.50	598.50	609.13	4.21	610.62	4.85	144.00	179.91
Chamera-I	760.00	748.75	756.22	0.00	0.00	0.00	124.30	0.00
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	517.93	5.73	514.04	4.85	99.50	242.82

* 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	825	0	0	866	0	0	21.42	0.01	21.44
Delhi	584	-173	0	373	289	0	13.67	3.40	17.06
Haryana	1249	218	0	1769	192	0	35.67	4.56	40.23
HP	-688	-28	0	-383	-456	0	-11.64	-1.22	-12.85
J&K	-538	184	0	-538	283	0	-13.50	6.79	-6.71
CHD	0	0	0	0	-10	0	0.35	0.30	0.66
Rajasthan	-139	480	0	-139	402	0	-3.33	12.05	8.72
UP	733	746	0	371	-78	0	10.60	4.85	15.45
Uttarakhand	-236	423	0	-236	366	0	-5.67	11.72	6.05
Total	1789	1850	0	2082	988	0	47.57	42.48	90.05

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

State	Bilateral (MW)		IEX (MW)		PXIL (MW)	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Punjab	1029	614	30	0	0	0
Delhi	654	373	694	-464	0	0
Haryana	1804	1228	300	-234	0	0
HP	-383	-688	292	-527	0	0
J&K	-538	-609	482	35	0	0
CHD	44	0	59	-20	0	0
Rajasthan	-139	-139	993	342	0	0
UP	748	275	1025	-78	0	0
Uttarakhand	-236	-236	756	210	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	0.69%

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

WR	19.10%
ER	4.51%
Simultaneous	48.61%

(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	22
Haryana	2	24
Rajasthan	1	24
Delhi	2	30
UP	4	34
Uttarakhand	4	19
HP	6	68
J & K	4	34
Chandigarh	8	96

XIII. System Constraints:**XIV. Grid Disturbance / Any Other Significant Event:****XV. Weather Conditions For 30.09.2016 :**
Normal**XVI. Synchronisation of new generating units :****XVII. Synchronisation of new 220 / 400 / 765 KV lines and energising of bus / /substation :**

- 1: 400kV Unchahar – Fatehpur – 1 first time charged on 13.44 hrs dt 30.09.16 from Fatehpur end only for anti-theft.
- 2: 400kV Kankroli – Chittorgarh line first time charged on 16.31 hrs dt 30.09.16 after LILO of 400kV Kankroli – RAPP C -1 At Chittorgarh PG.
- 3: SVC Ludhiana : 3x 200 MVA, 400/ 26 kV Coupling Transformers first time charged.
- 4 765 kV Fatehabad-Lalitpur charged along with line reactor at Fatehabad end at 01:12 hrs/01-10-2016

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.